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IN TWO SECTIONS
Section 1

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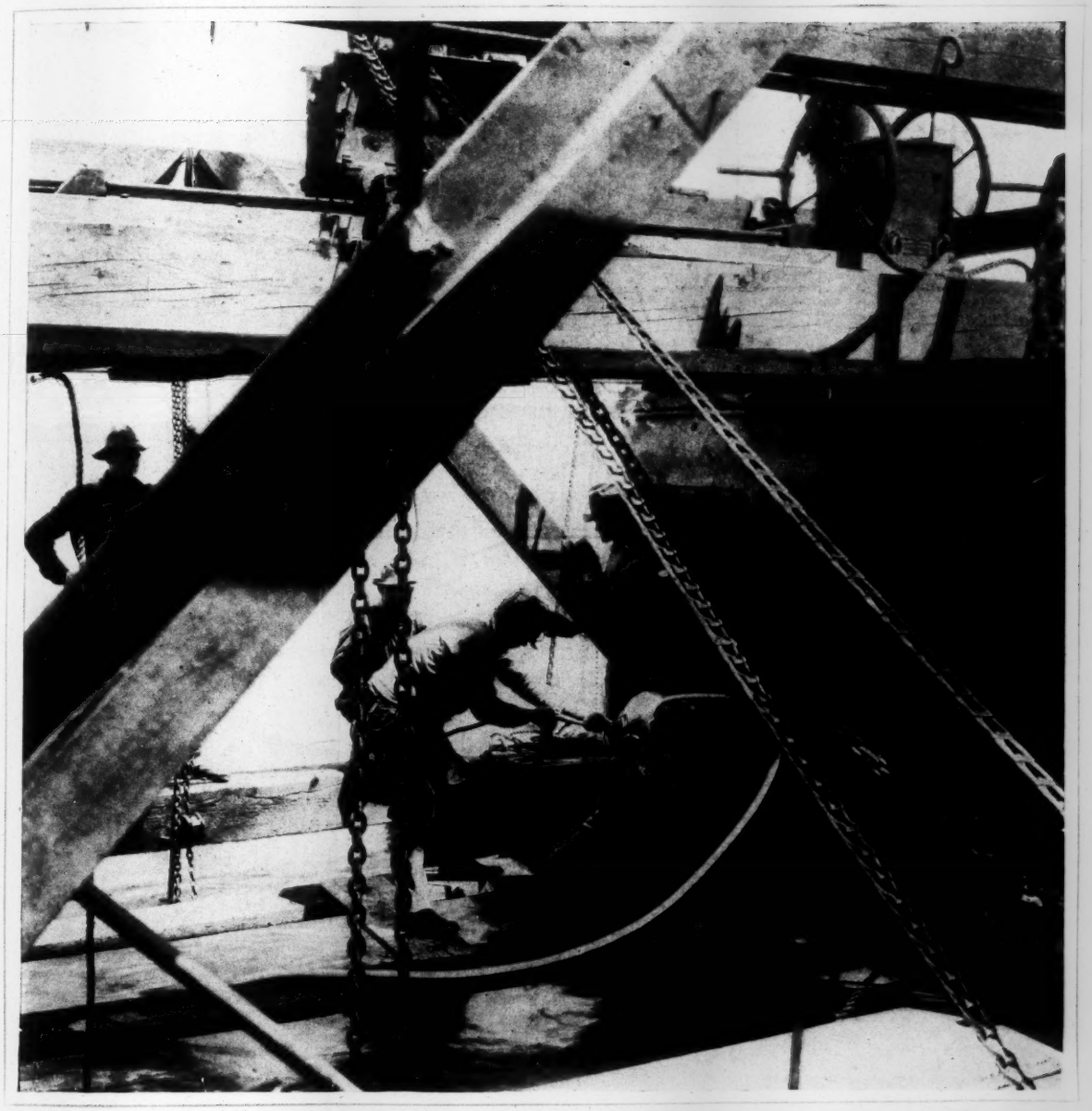

Diver Working from Pipe-Laying Barge
Marston Lake Intake, Denver

Laying Intake Through Earth Dike Under Service—Crossing Elimination and Road Relocation in California—Staff Report on the Annual Convention of the American Association of Engineers—Agricultural Engineering Progress and Opportunities—Concrete Bridge Designed for Elastic Movement

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FRANK C. WIGHT
Editor

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A Concrete Bridge Novelty

REFINEMENTS of design far beyond anything ever attempted in this country are revealed in the Swedish reinforced-concrete bridge described on p. 1022 of this issue. These lie particularly in the use of hinges, the provision for elastic movement and the dependence upon interwoven hooping to add strength at critical points. All of these details, however, have been tried out by American engineers, though few of them have been convinced that such details give results adequate to pay for the labor and cost involved and many, besides, doubt the practical consummation of the theoretical gain. It is in the excessive variation of the proportions of the mix, however, that this structure is distinctly strange to Americans. A small variation between foundation and superstructure concrete is common here and an occasional bridge will be found with a weak lean mix for filling concrete, but to vary proportions at every place that the stress sheet shows a different demand for strength or elasticity is carrying dependence on the knowledge of concrete behavior pretty far. The usual explanation of the difference between European and American practice in structures has been that over there labor is cheaper, materials more expensive and machinery rarer than here, but with changing times Europe must be approaching America in the relative costs of these items. The more plausible explanation of such differences as the Swedish bridge shows is that European engineers are more inclined to bend practice to theory than the American, who might be said to use theory mainly to justify practice.

How Precedent Is Built Up

PATENT validity, particularly where structural patents are concerned, is built up largely on the precedent of acceptance by earlier so-called infringers. The technique of the patentee has been fairly well established. First, of course, he has to get a patent and then to have it upheld in the lower courts. This is fairly simple, for up till quite recently at least the Patent Office has been unable to distinguish between invention and design in a static structure, and lawyers both on and off the bench have been equally dense. Armed by the law, then, the patentee seeks first a few amenable infringers, who to avoid difficulty and to save money, admit infringement and pay nominal damages. The patent thus becomes well established, the record of admitted infringement impressive and the chance remote of there arising an accused infringer bold enough to start anew the fight against the grant of a government monopoly to what, to all engineers familiar with the processes of design, is merely the exercise of normal engineering thought. The system by which such patents are promoted is pernicious but difficult to combat, because the individual as a rule finds it cheaper and easier to surrender than to fight. A peculiarly flagrant case has just come to hand. A public commission, against the advice of its engineers, has just paid over a large royalty, because the individual members of the board had been led to believe by certain legal decisions that they were personally responsible for any damages awarded a contesting patentee after a successful infringement suit. The patentee now has this successful claim to wave before any other public body it chooses to intimidate and will continue to have it until some one has courage enough to fight, and perhaps luck enough, patent courts being what they are, to win a suit based not on superficial legalities but on the obvious engineering fundamentals involved in this particular patent.

Small City Paving

STREET resurfacing is a problem that all cities have to face. Increasing traffic, both as to amount and as to weight, is playing havoc everywhere. But the burden of replacement is falling more heavily upon the town or small city than it is upon the good sized city where a fair percentage of so-called permanent pavement had already been placed before the motor became so omnipresent. Asphalt, concrete and brick pavements give way to some degree under the continual wear of the rubber tire, as million dollar annual budgets for street work in such cities as Cleveland and Pittsburgh testify, but such pavements are marvels of permanence compared to the old waterbound or even oilbound macadam which made up the majority of the street surfaces of the minor city ten years ago. These second-class roads are going to pieces fast and their replacement means just that, not merely repair. In consequence many a town of 10,000 is faced today with the necessity of spending a million or more in street construction, if it would modernize its street system. This means bond issues added to already overburdened indebtedness, or the alternative of piecemeal surface repair out of current funds with the continual prospect of the evil day approaching when the repair system will not suffice. City fathers in such places need the courage to foresee the inevitable and to plan a systematic reconstruction, within the permissible financial capacity of the town, so that in some given time they will have permanent streets to replace the simple roads which sufficed for the village or town in the days of the horse-drawn vehicle. Trying to make those old roads over into modern streets merely by a surface treatment is as hopeless as trying to brush back the rising tide.

City Planning By Convention

NEW YORK CITY is going to try to plan for its future growth by convention rather than by experts or by officials. The mayor has appointed a committeee of nearly five hundred men and women who are to report on what the city must do, physically, to keep pace with its growing needs. Among those who will deliberate are numbered the gentleman who directs the destinies of the city's most authoritative political organization, a boxing commissioner, some theatrical impresarios, and a miscellaneous collection of "business

men." But there are, too, more than a sprinkling of competent engineers, architects and housing experts, who will furnish a leaven of real knowledge. The main work is to be done in committees and doubtless there will be a sufficiency of expertness on each of these to make their conclusions of real merit. The whole scheme has considerable appeal, especially for a large city, because by wise selection a cross-section of the city's directing thought is bound to be enlisted in favor of what the committee eventually reports. City planning does not require so much the brilliancy of thought to conceive as the persistence and confidence to put through. Plenty of our cities have wise plans made by those who know how to do just this but they are now merely dusty papers on forgotten shelves. Possibly the mayor of New York has hit upon a way to make a city plan effective. If he has he is entitled to a patent, on the grounds of novelty.

Cost-Plus Comes Back

THE cost-plus contract for certain important drainage work in St. Louis, Mo., described in our last issue, is a significant return to a method of contracting construction which was virtually killed in public works practice by the war. It was the lot of the cost-plus contract to be accused of all the extravagances and wastes of war construction. However unjust this was perceived by the thinking engineer to be, few had the courage to combat popular prejudice. This has been particularly true of public works engineers. Indeed following the charges of fraud and the suits for restitution against the war contractors a public works engineer risked his position, and almost his reputation, if he advocated cost-plus contract construction. The distrust of the method even extended to private construction and cost-plus contracting which had been steadily growing in favor began speedily to decline. Only the reputation of a few outstanding contracting organizations which had made the practice a fundamental of their operations kept it alive. Gradually, with the return to more normal conditions, there has been a return to favor with private owners of cost-plus construction. It still remains in scant favor in public works construction and it is this fact which magnifies the action of the St. Louis board of public service. It is not now the occasion to discuss cost-plus contracting. All its phases have been contended time and again by its disciples and its opponents. When the St. Louis experiment is recorded as we expect it will be, there will be new facts to guide opinion. For the moment, however, it can be said that cost-plus contracting possesses advantages under many conditions which make it well worth an owner's most careful attention.

A Re-invigorated Movement

FROM the evidence furnished by its convention at Philadelphia last week, the American Association of Engineers has reached a stable and sound condition. The membership, which for a time was sagging steadily and at an alarming rate, now is not only maintaining itself but is growing; expenses have been reduced below income and a saving is made; in addition, the divergence of purpose that marked previous conventions has been overcome. These are signs of excellent augury. They are important not only to the friends of the Association, however. The year's development—for the past year was the time of reform—should serve to demonstrate to all engineers the profession's needs. It makes manifest the demand for professional as contrasted with technical activities.

"Professional welfare work"—not a very graphic term at best—describes something that is not contained in technical discussions of stresses or the like and yet is a practical business necessity of the engineering community. It concerns the engineer as a man who must live, who must live efficiently, and who must work out many puzzling problems arising from the intermixture of ethics, technical skill and business exigencies. There was a time when such work was decried as uncalled for, as being below the level of a self-respecting society, but the passing days have made this view obsolete. Today it is clear that there is proper scope for society work in this field. The technical societies, hitherto inclined to ignore its necessity, can hardly continue long to look askance upon it under present conditions. The time may have come for them to consider seriously the possibility of co-operating with the Association, in order that technical activities and professional activities may be worked out in helpful conjunction.

The plain fact is that more than 6,000 men of the profession are engaged in the new work, and—after some initial confusion—remain grouped together in orderly, well managed array. These men are soberly intent upon bettering professional life in its administrative, ethical, social and public-service phases. They can achieve success unaided; but they will do so more quickly, and will help the profession more effectively, if their work is understood and is sympathetically supported by the technical societies. Much remains to be done in developing the purpose of the professional movement and centering it on suitable objectives. The ultimate value and need of the work, however, is no longer in doubt.

Train Control Again to the Fore

ONCE more a passenger train running at a high rate of speed at night has plowed its way into the rear sleeping cars of a stalled passenger train ahead of it with an appalling loss of life. Once more the human element in the system built up to prevent such catastrophes has failed to function. At this writing it is not known definitely in what way. Possibly it will never be known because two of the three men primarily responsible are dead, victims of their own or their fellow's carelessness. The rear flagman of the standing train says that he went out 700 ft. (an entirely inadequate distance with such high-speed trains), put down torpedoes and lit a red flare before returning to his train which was just ready to move off when the accident happened. Lacking positive evidence to the contrary, this statement must be accepted as true.

If it is true, then the evidence against the present method of protecting trains is more damning than ever. Usually there are only two men on the front end of a passenger train responsible for the observation of danger signals. This time there were four. If none of these four men neither saw the red flare on a dark night, nor heard the detonation of the torpedoes, nor smelled the tell-tale odor of the latter, then indeed some additional method of protecting trains is necessary. An additional means is available in automatic train con-

trol. It may not be infallible, but certainly it can be counted upon to act in a great majority of emergencies such as this.

The railroad companies have opposed train control installation on account of the high cost and because its development is largely in the experimental stage and future developments may necessitate expensive changes. But the railroads, particularly those which operate high-speed passenger trains as close together as were these two passenger trains last Thursday night, are not as poor as they were when the first order for the installation of automatic control was issued. There is no reason now why the installation of automatic train control devices on the more important railway lines should not be pressed with vigor. It is sometimes claimed too, that such precautions would induce a false sense of security which would render more fallible the already fallible enough human element. But this is, at least, to be proved.

The responsibility for the recent accident is assumed to rest with some member of the train crews. How long will it be before the moral responsibility for a similar accident is shifted to the directors of the company which operate such high speed passenger trains without providing the additional protection of automatic train control?

Engineering as an Aid to the Farmer

THE farmer has a hard row to hoe. He puts in long hours to produce vital supplies which he sells at a low figure for city dwellers working short hours at high wages, who in turn produce goods which the farmer is compelled to buy at high prices, or go without. He has to struggle to get, keep, and pay such labor as he and his family cannot supply with their own hands. His business is so organized, largely by its very nature, that he has long periods of seasonal idleness, a fundamental drawback to efficiency of production. Farming, the oldest of the productive activities of man, remains the least affected by those modern methods which have increased man's productivity, and in so doing have likewise increased his capacity for consumption, and his ability to pay for that increase.

Other great industries have met changed conditions by large scale production, are drawing on great pools of capital by labor-saving machinery, by scientific research, and by utilizing to the full the services of the engineer. Many things conspire to keep the farmer behind the other classes of producers in such modern adaptations. Millions of capital en masse do not exist for the farmer as for the manufacturer, or the transporter, or the distributor of goods. Up to the safe mortgage limit, land or chattel, he can borrow money, but only as an individual. His is indeed a large class of highly individualized and widely scattered persons. He has made his gestures toward co-operation, and they are becoming gradually more effective, in spite of the fact that those who represent him sense his political power more than they seek his individual prosperity, with the result that his accomplishments in co-operation are most notable where they perhaps do him the greatest harm in the long run, that is, in getting class legislation.

No wonder then that he or those who represent him are continually exploring new economic wildernesses in the vain hope that somewhere, somehow, will be found the formula of escape. Free silver in the nineties and equalization fees in this year of grace bear little resemblance as basic means, but the ends sought are precisely the same; they both represent the struggling effort of the agricultural producer to lift up this one great essential of living to the same scale and base as its eternally warring brother, industrial production. All such efforts are expedient. They can affect, if at all, only the temporary relation of the two great divisions of human activity. In the long run, the pendulum now setting high toward industrialism will turn, and the demand for food and clothing from a factory-covered world will increase the attractiveness of the business of raising the wherewithal for this food and clothing.

Meanwhile there is a gradually growing appreciation of the long-time efficacy of engineering as a saving grace. Economics as exemplified in what is called business may alter earlier results, but those most deeply interested in agriculture appreciate that for the long-time pull it is science which will win out. In scientific research the farmer has had far more done for him than any other great producer. How far he has gone in utilizing the numberless data and conclusions placed at his disposal is another matter; not far, probably, compared with the producers in the industrial field. For the most part, however, this application of science has been highly specialized. It has not until recently recognized any engineering relation, but within the past two decades this has been changed. The science of agricultural engineering is growing up, and that science is slowly making its impress on the struggling industry toward which it is directed. The article in this issue by Professor Ayres is an interesting exposition of how this agricultural engineering has grown, and how its development in our schools is progressing.

It would be instructive to know how much the present plight of the farmer is due to his lack of appreciation and use of engineering services. When it comes to employing competent engineers, what percentage of the farmers of the country, even co-operatively, have ever paid a dollar to an engineer, except for surveying? Where it has been done, it has been generally for laying out drainage or irrigation work, or perchance roads, and generally through governmental agencies at that. Indirectly the farmer gets the benefit of a large amount of engineering and other technical service, through the purchase of farm and house equipment, but he does not recognize that as engineering. The forward looking farmer is fully appreciative of the advances that have been made by the scientific agriculturist. That the engineer, too, has something to offer has not as yet made much progress in his consciousness. And yet, to cite only one fairly remote example, those efforts to market his products which are slowly going forward under the head of co-operative plans, are at bottom merely engineering devices, or they are subject to those investigations, analyses and actions that form the basis of engineering operation.

If the farmer as a class will gradually get away from the idea that some kind of magic formula or legal device will act as substitute for scientific development he will, helped out by the normal swing which is bound to come toward his industry, move even faster than he is now moving toward that equality of reward with the industrial producer which he now so eagerly seeks, and which in a properly balanced world he must have.

Laying Intake Through Earth Dike Under Service

Intake for New 90-m.g.d. Filters for Denver Water-Works Put Through Marston Lake Embankment in Cofferdam, but Subaqueous Pipe Placed by Divers from Barges

IN CONNECTION with Denver's new 70-m.g.d. mechanical filtration plant recently installed on the north side of Marston Lake, a 90-in. reinforced-concrete intake pipe was laid through a 40-ft. dike out into the lake, a distance of nearly a quarter of a mile, and a screen house was constructed at the shore end of this line a few hundred feet from the aeration basins of the filter plant. At the start a short section of the pipe with concrete cutoff collars was laid in a cofferdam in the center of the dike and backfilled. The subaqueous pipe was brought down a track laid on the slope of the embankment into the water, transferred to a barge from which it was sunk in place and brought home by a diver. A cone-shaped frame on the upturned elbow at the intake end is covered by a conical screen guided to place by a chain from the frame paying through the top of the screen to the surface.

Marston Lake, being a 6,000-m.g. uncovered reservoir, is subject to a rather profuse growth of algae which thrive in clear shallow water under the action of sunlight. For that reason it was considered desirable to draw the water from a point some distance from the shore where there is always a considerable depth and where the growth of algae is minimized. The 90-in. intake will provide not only for the present capacity of the filter plant but also for future extensions.

The lake is roughly circular in shape with an average diameter of a little over one mile; and an earth embankment, the elevation of the top of which is 370, Denver datum, extends around most of its perimeter. The bottom of the lake at the new point of intake is below El. 320 so that the depth there at high water is more than 40 ft. and more than 20 ft. at proposed minimum low-water level. The elevation of the natural ground at the point where the new intake pierces the embankment is about 340 so that the embankment is approximately 30 ft. in height. Water in the lake varied all the way from 345 to 356 while the construction of the pipe line was in progress, the pipe being laid in from 12 to 20 ft. of water.

Screen House—The screen house is a concrete structure up to the level of the top of the embankment and has a brick superstructure. The concrete walls and floors are founded on bedrock which is approximately at El. 312 or about 30 ft. below the natural ground level. The structure is pear-shaped in plan, Fig. 3, inside dimensions on the major axes being 38 ft. and 44 ft. respectively. The structure is provided with the necessary concrete piers and steel and concrete appurtenances for three sets of traveling screens. These screens have a height of 60 ft. c. to c. of sprockets and are provided with screen baskets 8 ft. long. They are designed for a speed of travel of 6 ft. per minute. Two of the screens have No. 40 copper mesh wire and the third screen has No. 60 copper mesh wire.

As the ground was quite wet above bedrock, due to seepage through the embankment, a sheetpile cofferdam was driven down to bedrock around the location of the concrete structure before excavation was started and four 12x12-ft. wooden key piles were driven inside the cofferdam to afford a means of bracing during the progress of excavation and concrete construction. The sheetpiling was left in place and used as an outer form for the lower part of the concrete walls. The cofferdam, Fig. 2, was excavated with a clamshell bucket on a crane which also was used for handling concrete.

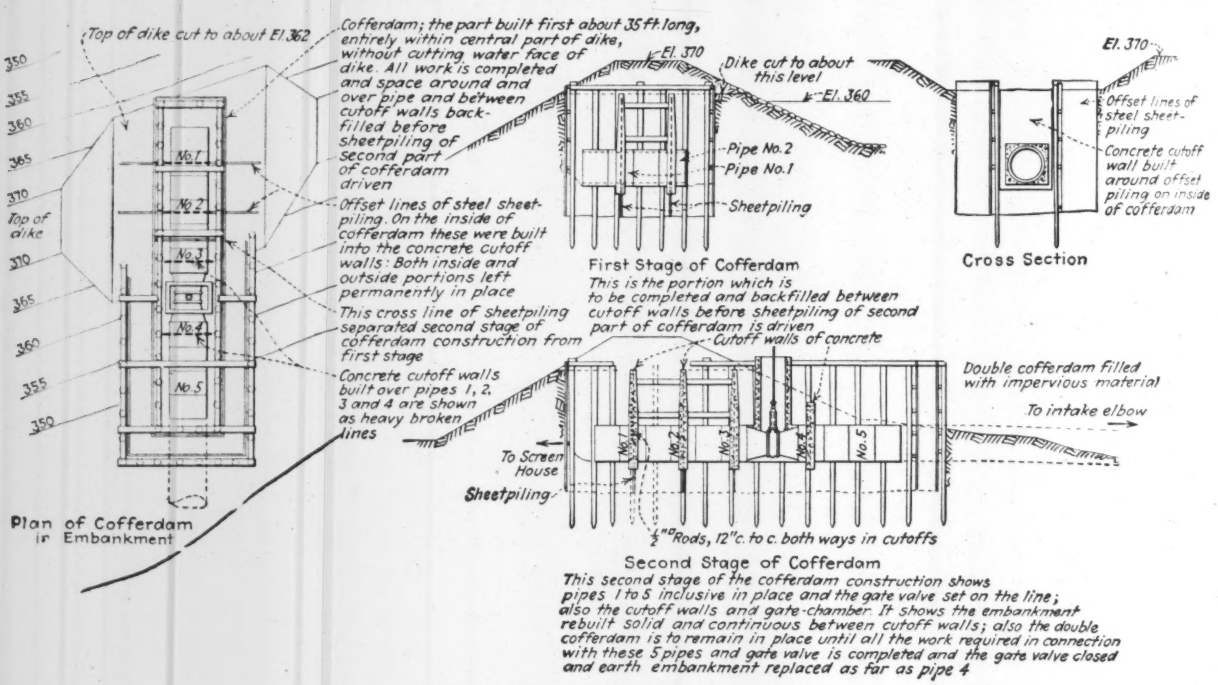


FIG. 1—DETAILS OF DIKE CROSSING

The pipe line is provided with a vertical elbow at the intake end, a 60-ft. valve in the embankment about 75 ft. from the south wall of the screen house and a steel breeches which connects with the 90-in. line where

FIG. 2—EXCAVATING FOUNDATION OF PEAR-SHAPED SCREEN HOUSE
Sheeting was driven to bedrock and used for outer form for concrete walls. Note proximity to toe of dike.

it enters the screen house and branches into two 54-in. down pipes provided with valves at approximately El. 325. Special steel reducers 6 ft. long, with ends of necessary shape for calking into the steel ends of the concrete pipe, provided for connection to the 60-in. flanged valve. The pipe line must act as a siphon when the lake is at a low level and provision is made for pumping the air out of the line at a high point near the screen house so as to start the action of the siphon. This necessitates an airtight pipe line in the first 200 ft. of pipe line laid south of the screen house. To provide for airtightness, welded steel cylinders of No. 12 gage steel made integral with the steel joint rings by welding were molded into the walls of the pipes when they were manufactured and the calked lead joints used in this design of pipe were also made airtight without difficulty. All pipe laid in the lake was manufactured in 12-ft. lengths weighing approximately 15 tons each or 8½ tons when submerged in water. For convenience in handling, the pipes laid on shore were manufactured in 6-ft. lengths. As the pipe laid by subaqueous methods operates under no head, having substantially the same pressure inside and outside, it was not found necessary to calk the joints or fill the joint space with mortar beyond the end of the section acting as a siphon. To prevent any tendency for the pipes to separate all pipes laid under water were provided with a pair of 1½-in. eyebolts at each end, which were driven into steel nipples molded into the concrete during manufacture, all of them being in the same plane. The pipes were laid with these eyebolts on the horizontal axis and 1½-in. bolts were inserted through the eyebolts by the divers and nuts screwed home.

Pipe Delivery—All pipe laid on shore was delivered by truck. It was the intention to load the subaqueous pipe on the laying barge from a dock but the lake level was considerably lower than was anticipated. Accordingly, a railway track of about 5-ft. gage was laid from the manufacturing yard down the east shore of the lake and out into the water several hundred feet. Each pipe was loaded on a low pipe car which ran on this track, Fig. 4, and which was pulled out into the lake by a hoisting drum on the barge to a point where the depth of water was sufficient to give flotation for the loaded barge. The pipe was then picked up by the barge and transported to the location of the pipe line where it was laid. The empty car was pulled back to the loading yard by a cable on the drum of the locomotive crane, this cable being eased off gradually to steady the car when delivering pipe.

Before delivery, each subaqueous pipe was provided with a heavy strap-iron band placed around the pipe at its center of gravity and to facilitate handling, a pair of eyes was welded on top of the band near the 45 deg. points. From the pipe handling device on the barge a Y-shaped bridle was hung which consisted of a pair of short eyebars, the ends of which engaged the

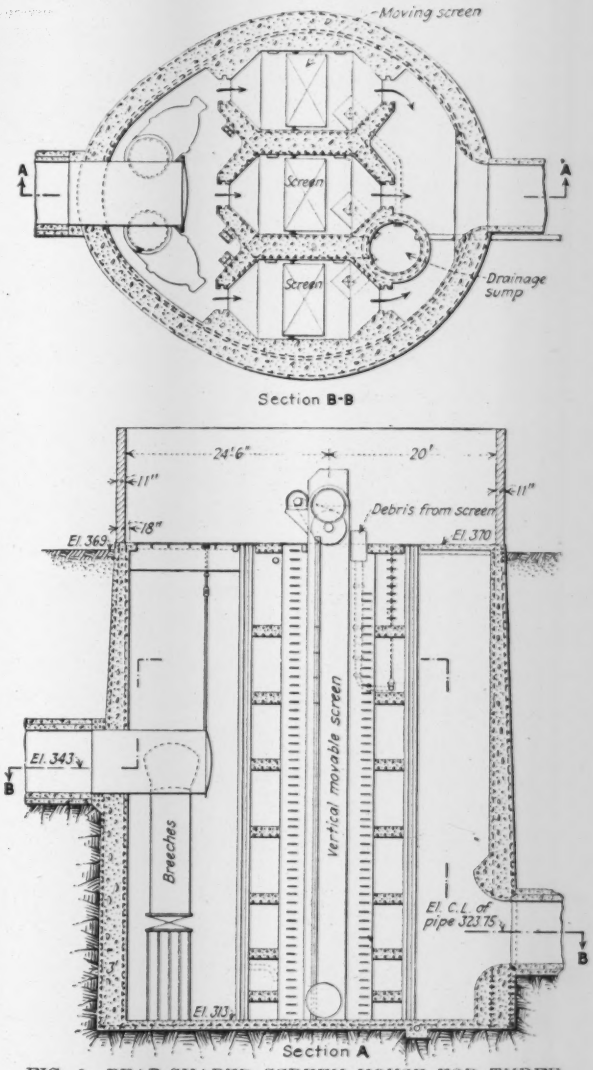


FIG. 3—PEAR-SHAPED SCREEN HOUSE FOR THREE TRAVELING SCREENS

eyes on the pipe band and were secured by steel pins to which ropes were fastened so that they could be easily removed after the pipe was laid and the load slackened off. The steel bands were left in place on the pipes.

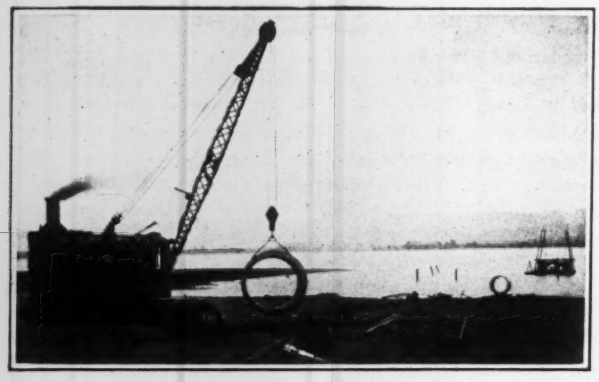


FIG. 4—CRANE DELIVERS PIPE TO RAILROAD DOWN SLOPE
Flat car carrying pipe near water edge let down slope with cable. Barge will pick up between pontoons when pipe far enough out for barge to get it.

According to the specifications the first stage of the work was to be the construction of a cofferdam in the main body of the embankment and this cofferdam was to be excavated and the pipe laid and fully protected by the necessary concrete cutoff walls and earth backfill before the water face of the embankment was disturbed. Percolation of water along the sides of the cofferdam during construction or along the pipe after it was laid might readily develop a condition of erosion which could undermine the embankment. The cutoff walls were to be extended out 8 ft. beyond both sides of the cofferdam and at right angles to it by driving full length interlocking sheetpiles made structurally intact

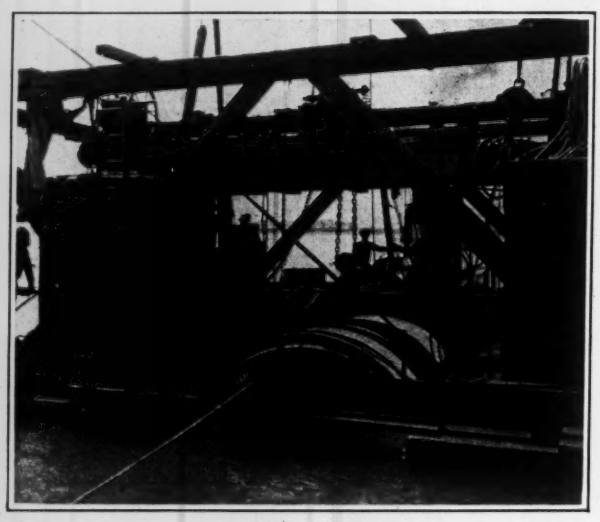


FIG. 5—LAYING BARGE WITH PIPE READY TO LOWER
Four spuds steady barge which is pulled to final position by lines moored to buoys. Four guy ropes were fastened on each side of the pipe at both ends. Laying rig supported on transverse track. A chain block fastened to the sling gave a longitudinal motion and four guy ropes provided slight adjustment in alignment.

with the cofferdam. As soon as the cofferdam excavation was completed sheet piles, 8 or 9 ft. long, were to be driven across the bottom below subgrade along the line of a cutoff wall and when the pipe was laid a concrete collar or curtain was to be placed around it, bonded to the sheetpiles in the bottom and to sections of piling on the inside of the cofferdam interlocking with the walls so as to give an impervious cutoff wall at least 32 ft. wide and approximately the same height.

Before any cofferdam work was started a wide prism of earth was excavated from the top of the embankment its full width down to elevation 360.

The first cofferdam was made up of a single row of steel sheetpiles forming a complete box about 17 ft. wide and 40 ft. long, the north end being about 30 ft. from the south wall of the screen house which is at the down-stream toe of the embankment. It was provided with the necessary corner pieces and six crosses so that the steel piling in the cutoff walls could be made structurally intact with the concrete collars around the pipe. Twelve 12x12-in. timber piles about 40 ft. long were driven inside of the cofferdam at the corners and along the sides, which served as a framework for the timber bracing of the cofferdam, and the 12x12-in. rangers framed on these posts also supported heavy cross-timbers which served as a mat for the crane used in excavation, piledriving and pipe laying. Six pipes, 6 ft. long or 36 ft. of pipe, were laid in this cofferdam and three combined concrete and sheetpile cutoff walls 33 ft. wide, were constructed across it. Reinforced-concrete struts were placed between the concrete collars so that they could act as retaining walls to take care of any

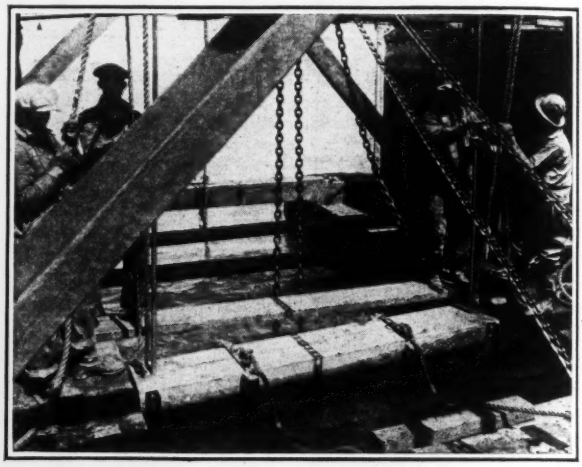


FIG. 6—THE 6x16-IN. SILL WITH ANGLE BARS AND WEIGHTS

unbalanced pressure which might develop during backfilling or while the embankment was settling.

The second cofferdam had practically the same dimensions in plan inside as the first and was constructed in substantially the same manner, but a double row of steel sheetpiles were driven around the portion which was out in the water, the space between the two rows of piling being filled with impervious material. In addition to the 60-in. valve, which with the reducer occupied a space of about 14 ft., four pieces of pipe, 6 ft. long, were laid in this cofferdam. One low cutoff wall was constructed on this cofferdam and a concrete valve chamber, 6x10 ft. in plan inside, was built over the 60-in. valve.

A third cofferdam was constructed out in the water so as to drop the pipe line down about 7 ft. in a distance of 36 ft. This cofferdam was built in extension of the second cofferdam in water varying in depth from 10 ft. to 15 ft. Only a single row of sheetpiles was used in this cofferdam. It was protected from seepage by a large piece of heavy canvas which extended completely around the outside of it, and placed around the bottom of the cofferdam acted effectively as a water seal.

All piling in the first cofferdam and the inner row

of the second cofferdam was left in place. The outer row of piling in the second cofferdam and all sheetpiles in the third cofferdam were pulled with the crane. All concrete pipe and steel specials laid in the cofferdams were concreted in the full width of the cofferdams from subgrade up to a point 8 in. above the top of the pipe.

Piling 32 ft. long, similar to that described for the screen house cofferdam, was used for the cofferdams through the embankment and it was driven with a steam hammer, the leads for which were supported

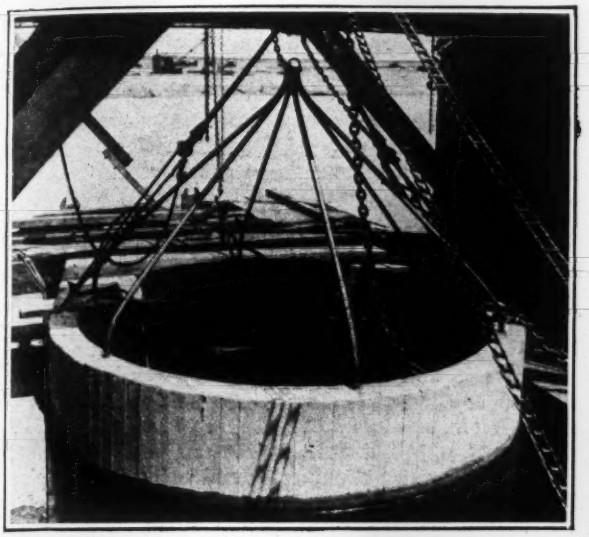


FIG. 7—CONCRETE ELBOW AND GUIDE FOR SCREEN

from the boom of the crane. Most of the excavation was done with clamshell and orangepeel buckets. A 10-ton crawler crane was used for piledriving, excavation, pipe laying and backfilling.

Pipe Laying in the Lake—The improvised barge, Fig. 5, used for the delivery and laying of the subaqueous pipe, consisted of twin rectangular timber pontoons, each 26 ft. long and 9 ft. wide with an overall depth of 34 in. They were provided with watertight decking to prevent waterlogging. They were fastened together with a space of about 9 ft. between them so as to give a few inches clearance for a 90-in. pipe, which has an outside diameter of 8 ft. 4 in. Across the barge a heavy gallows frame was constructed on top of which an 18-in.-gage track was placed for the geared pipe-handling rig. Astern of the twin pontoons, with its axis on the longitudinal axis of the barge, a third pontoon was fastened. This supported a steam hoisting engine which furnished power for driving the propellers, one of which was placed at the stern of each of the twin pontoons and which also drove a counter shaft which furnished power for the laying rig and the winch heads used to operate the spud and mooring lines. The main anchor was operated by one of the drums. The barge had a very narrow freeboard and drew nearly 33 in. of water with its fixed load and the maximum movable load of about 15 tons. In taking on a pipe from the delivery car the barge was anchored in position astraddle of the railway track and the partially submerged pipe resting on the delivery car was pulled in between the twin pontoons.

Four long spud posts were provided, one at each corner of the barge; they were raised and lowered by manila ropes wound on winch heads. These spuds served effectively in steadying the barge while at anchor and were very useful when manipulating the barge into exact position. The barge was also equipped with a removable boom and pile driver leads. In loading or laying pipe, the barge was brought to approximate position on its own power and pulled to final position by lines moored to buoys, which were shifted as the work progressed. Very careful manipulation was required as the barge had to be brought to exact alignment and distance within a few inches when laying pipe.

In order to minimize the difficulties of laying by making the pipes go together easily, special care was taken to keep on exact grade and line. Before a pipe was laid, a wooden sill 16 in. wide and about 6 in. thick, Fig. 6, was placed in the bottom of the lake at right angles to the pipe line a foot or so back of the point where the end of the bell was to come. The sill was provided with an angle-iron leg at each corner and when lowered into the water was weighted down by means of removable saddles fastened to lead weights, guides being used to bring the sill to the proper position after which it was rammed to exact grade by means of two specially devised tampers made up of

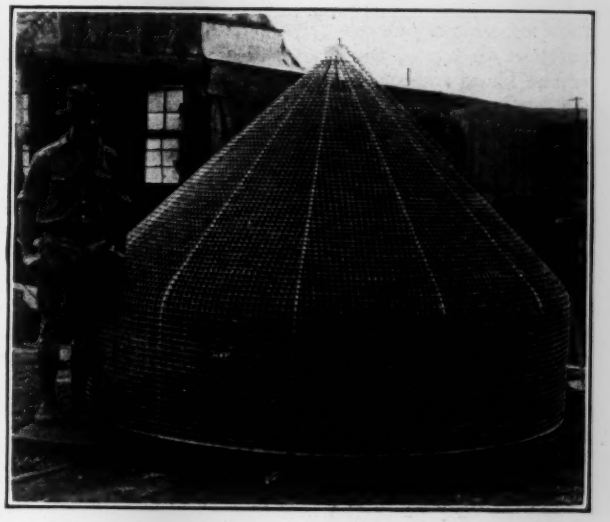


FIG. 8—SCREEN FOR TOP OF ELBOW LET DOWN ON GUIDE CHAIN

Guide chain from frame pays through ring at top of screen. A second chain on screen enables screen to be pulled up for cleaning. Both chains are attached to a buoy.

angle irons and pieces of sheetpiling. Before the sill was lowered exact soundings were taken to determine the contour of the lake bottom so that a sill of necessary thickness could be provided or blocking nailed on the underside of the sill to fill up depressions. In case the sill was driven below exact grade, it was an easy matter to nail a scab on top while in position under water.

The pipes were laid bell end forward and in laying the spigot end was carefully aligned on the bell of the pipe last placed by means of four guy ropes fastened on each side of the pipe at both ends. The pipe-handling or laying rig which was supported on a transverse truck gave a motion in two directions, that is, up and down and sideways. A chain block fastened to the sling gave a longitudinal motion to the pipe and the four guy ropes provided for slight adjustments in alignment, so that it was a relatively simple matter to bring

the pipe home to exact position. When this was done, the diver entered the tie bolts through the eyebolts at the ends of the pipe and placed the nuts on them, after which they were tightened up by means of a ratchet wrench operated either by the diver or by a rope from the barge.

Line which was on a tangent was carried by means of range poles on shore and in the lake, it being occasionally checked up with a transit. Grade was carried by water level corrected for changes in gage height, or when the lake was rough, by rod measurements from pipes already in place.

After pipe laying was finished, pea gravel was spilled along either side of the pipe line through slots in the sides of gravel boxes transported along the center line by the barge. The gravel was well worked under the haunches of the pipe by the divers so as to insure a firm and permanent foundation.

Conical Screen—A precast reinforced-concrete elbow, provided with a spigot joint ring to engage the bell of the last pipe, was installed at the end of the pipe line. This elbow, which weighed nearly 20 tons, was lowered into place by the barge. Just before lowering, a conical screen frame consisting of six heavy brass rods with a ring at the point of the cone was placed in position on top of the open end of the elbow, the feet of the brass rods fitting into holes left in the concrete during molding. A chain fastened to the ring of this frame serves as a guide for the screen which was installed later. The screen, Fig. 8, which is also conical in shape and which is made up of brass rods braced or soldered together, has openings 1 in. square in the clear. There is a hole in the brass casting at the top of the screen and a brass clevis provides a means of fastening the screen to the chain by which it is handled. When the screen was lowered into place, the guide chain on the screen frame was passed through the hole in the brass screen casting and the screen dropped readily into exact position with its bottom ring on top of the concrete elbow. The ends of both chains are fastened to the buoy which marks the end of the intake and the screen can be easily raised for cleaning.

Laying of pipe in the lake was started at the end of March, 1925, and finished early in May so that the job of laying 98 pieces of pipe took about 30 working days. Five pieces of pipe were frequently delivered and laid in one day, but wind, which is prevalent in Colorado at that season of the year, interfered materially with the progress of laying, not only because of the roughness of the water but because of the danger of the barge being grounded in the shallow water on the east shore where the pipe was loaded.

The Lock Joint Pipe Co. handled all pipe manufacture, pipe laying and cofferdam construction with its own forces; and Stearns-Roger Manufacturing & Supply Co. of Denver constructed the screen house. The total amount of the contract for the pipe line and the screen house was about $315,000.

Burton Lowther, chief engineer of the Denver municipal water-works, was in general charge of all water-works construction for the city and Walter A. Sumner was resident engineer on this job. James H. Fuertes, of New York, was designing and consulting engineer and was represented on the job by Fred H. Weed, resident engineer.

Compromise Arrangements Made in Railway Plans in Oregon

Interstate Commerce Commission Authorizes New Construction—Does Not Order All Lines Requested by State

CONFLICTING plans for new railroad construction in Oregon have been before the Interstate Commerce Commission for nearly two years. Beginning with the request of the Oregon Public Service Commission that the Interstate Commerce Commission order the construction of some 400 miles of railroad in the central portion of Oregon (*Engineering News-Record*, Oct. 16, 1924, p. 635) and followed by several applications from individual railroad companies for authority to build lines in the same region, the matter has become one of more than usual interest not only because of the large mileage involved but also because the commission was asked to order the construction of a considerable mileage of railroad, which in the opinion of the railroad companies concerned was not warranted on the basis of the revenue in view. Because of these circumstances, the Interstate Commerce Commission decided to consider both the complaint of the Oregon Public Service Commission and the application of the railroad companies at one time. This has been done and on May 3 the commission issued an order, outlined briefly in our issue of May 27, p. 875, dismissing the complaint of the Oregon Public Service Commission and authorizing the construction of about 360 miles of railroad, the authorization being conditioned upon the granting of certain operating rights among the railroads concerned.

In the eastern half of Oregon is a great plateau region about 4,500 ft. above sea level reached only by a few stub-end railroad lines and hardly any highways. The center of the region is semi-arid, but in the north and west it contains large stands of timber and in the south and east are many settled areas. The Oregon commission sought not only to open up this area for development by the construction of an east and west line of railroad and a north and south line across it, but also by these lines to provide a new route to carry the products of western Oregon to the eastern market. These products now move over the lines of the Great Northern, Northern Pacific, or Chicago, Milwaukee & St. Paul to the north and eastward, or southward and eastward over the lines of the Southern Pacific by way of Roseville, Calif., and Ogden, Utah. The Oregon commission sought the construction of an east and west line from Oakridge to Crane, which would give a new route to the east at least 420 miles shorter than the route by way of Ogden, and the construction of a north and south line between Klamath Falls and Bend, with a connection to Oakridge, which would give an additional north and south route and would increase the competition in the region around Klamath Falls which now is tributary to the Southern Pacific and its controlled lines only. Moreover, the Oregon Commission requested that the Interstate Commerce Commission order the joint use of the new railroad by the major railroad systems with which they connected in order to increase competition.

The new lines proposed by the Oregon commission would connect with the Great Northern and Union Pacific systems on the north, with the Southern Pacific on the west and south, and with the Union Pacific system on the east. In order to establish the new route for

products of western Oregon across the state, the Southern Pacific would have to turn over to the Union Pacific freight which it now handles southward and eastward through Ogden, and the Union Pacific, the Great Northern and the St. Paul would be required to turn over freight to the Southern Pacific to be routed to the new transcontinental route. The railroads were actively opposed to any such arrangement and the Interstate Commerce Commission, in its decision, stated that the construction by the Union Pacific of its line across the state from Crane to Oakridge (as proposed when construction of this line was started, the Union Pacific then being affiliated with the Southern Pacific) is not economically feasible now that the two systems are independent. On the other hand, the commission considered that the construction of additional north and south

EXISTING AND PROPOSED RAILWAY LINES IN OREGON

lines is economically justified and desirable from a point of developing the territory, but it expressed itself as being opposed to the construction of paralleling lines and as favoring the joint use of certain lines, at least until there is sufficient traffic developed to require the construction of additional lines.

In view of these considerations, the Interstate Commerce Commission declined to order the large amount of new construction requested by the Oregon Public Service Commission but authorized the railroad companies to build lesser amounts as follows:

Oregon, California & Eastern Railway Co.—The Oregon, California & Eastern Railway Co. is authorized to construct a line from its northerly terminus at Sprague River north 63 miles to Silver Lake, with a branch from a point on this line 20 miles north of Sprague River in a northwesterly direction along the Williamson River approximately 15 miles, and another branch from Sprague River southeasterly 65 miles to Lakeview. Authority to build these lines is given upon the condition that the Oregon Trunk Ry. be granted the right to operate either over the Southern Pacific line from Paunina to Klamath Falls or over the tracks of the O., C. & E. Ry. to Klamath Falls from a connection on the proposed Williamson River branch described above.

Oregon Trunk Ry.—The Oregon Trunk Ry. is authorized to construct a line of railroad from Bend by way of Paunina to the nearest practical point of connection with the Oregon, California & Eastern Ry. But there is the condition that if the Oregon Trunk Ry. shall be granted the right to operate over the Southern Pacific from Paunina to Klamath Falls it shall construct only from Bend to Paunina. Construction by the Oregon Trunk Ry. south of Paunina or by the Oregon, California & Eastern Ry. is not to be commenced until a copy of the agreement for operating rights is filed with the commission.

Central Pacific Ry.—The Central Pacific Ry. (Southern Pacific System) is authorized to construct a line of railroad from a point near Klamath Falls southeast to Cornell, Modoc County, Calif., a distance of 36 miles, and thence southeast to a connection with the Nevada-California-Oregon Ry. at Alturas, Calif. As the latter line is narrow-gage it will have to be widened and improved to fit it for part of a main line route.

In addition the Southern Pacific Co. is authorized to obtain control of the Oregon, California & Eastern Railway Co. by purchase of its capital stock upon the condition that the Oregon Trunk Ry. shall be granted rights to operate over either the Natron cutoff line or the Oregon, California & Eastern line into Klamath Falls. The Southern Pacific Co. also is authorized to acquire control of the Nevada-California-Oregon Ry. Co. by purchase of its capital stock.

The Southern Pacific Co. estimates that the total cost of this work will be $19,741,000. This includes purchase, rehabilitation and extension of the Oregon, California & Eastern, purchase and changing the gage of the Nevada-California-Oregon and the new extension from Klamath Falls to Alturas. In addition to this it is now spending nearly $40,000,000 in the construction of Natron cutoff and Black Butte cutoff.

The construction of these lines satisfies part of the requirements of the Oregon Public Service Commission, in that a new and shorter route to the East will be provided from Eugene over the Natron cutoff to Klamath Falls, thence by the new line of the Southern Pacific to Alturas and south over the reconstructed line of the Nevada, California & Oregon Ry. to Wendel. Moreover, the Interstate Commerce Commission, by refusing to comply with the request of the Oregon commission that it order the construction of certain railway lines and then attempting to satisfy the requirements of the latter commission by approving the construction of lines which the railroads were anxious to build, avoided raising the question of its authority to order the construction of any railroad against the wishes of the railroad company so ordered. This action by the commission is reasonably certain to insure the early construction of some or all of the lines now authorized, whereas, had the commission ordered any or all of the railroads to build lines which they were unwilling to build, the whole matter in all probability would have gone to the courts on a test of the constitutionality of the order and construction would have been postponed indefinitely.

Action by the Railroad Companies—Following the publication of this order by the Interstate Commerce Commission, the presidents of the Great Northern Ry. Northern Pacific Co. and the Southern Pacific Co. met to discuss the conditions established by the commission, but have not yet reached any definite agreement.

A Problem in Plant Layout On Saturated Sand

Open Dredging an 82-Ft. Caisson 63 Ft. Deep in Sand Below Tide Level Calls for Pile Foundation for Plant

THE PROBLEM of locating a construction plant on sand constantly wet and certain to move as construction proceeded was interestingly solved recently in sinking a circular caisson 82x63 ft. on the shore of Jamaica Bay on Long Island. Each plant unit was put on a pile foundation and was kept outside a danger zone assumed as a ring 20 ft. wide all around the caisson. The arrangement is indicated by Fig. 1 and the general view Fig. 2 shows the nature of plant and structure.

Conditions of Site—The structure is the first of three 80-m.g.d. units of the new Jamaica sewage treatment

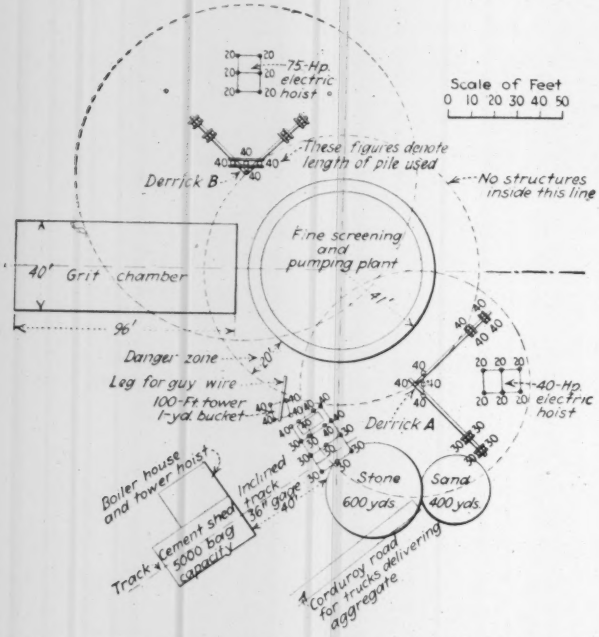


FIG. 1—COMPACT CONSTRUCTION PLANT LAYOUT FOR OPEN CAISSON SINKING JOB

plant for the Borough of Queens, New York City. Each of these units consists of a grit chamber and a circular pit in which are to be housed two 26 ft. diameter fine screens and the pumping plant. Following the completion of the three screening and pumping units, an activated sludge plant will be constructed further to treat the sewage.

At the site, the ground is about a foot below mean high water in the adjacent Jamaica Bay. The sand is continuously saturated. The construction plan determined on, therefore, was: (1) For the shallow grit tank foundations, to keep down the water level by well points and pumping and to concrete in the dry, and (2) for the deep circular screen pit to sink a circular caisson by open dredging and seal the bottom under water. The saturated condition of the site is indicated by the fact that for the grit chamber, a reinforced-concrete structure 96x40 ft. in plan being built in open excavation to El. —23.5, over 200 well points entirely surrounding the structure are connected to a pump discharging 4,500 g.p.m. continuously. Aside from being the direct opposite of the construction procedure used on the caisson the grit chamber work presented little of interest. Indeed the caisson sinking was ordinary except for usual exacting care always necessary.

Plant Layout—Success in sinking the caisson was really a task of careful plant layout. First, the possibility of cave-ins around the caisson as it was being dredged out required that all structures be placed outside a possible danger zone. The contractor determined that this zone should be 20 ft. wide entirely around the structure (Fig. 1). Second, it was desirable to have as few structures as possible. Third, since it was

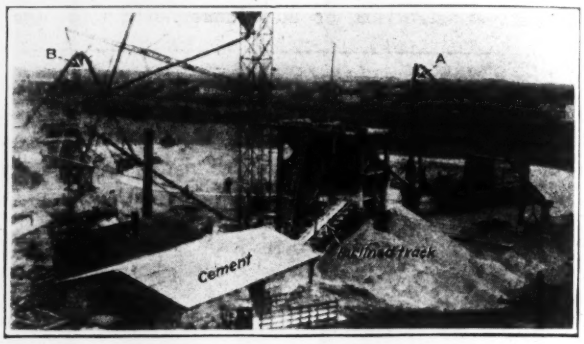


FIG. 2—GENERAL VIEW OF CONSTRUCTION PLANT

necessary to place the 1,600 yd. in the concrete bottom by a continuous pour, the plant had to have a capacity and operating efficiency to take care of this maximum requirement. The estimated time for this operation was 48 hours.

Two stiff-leg derricks with 70 and 90-ft. booms were so located that the dredging buckets could cover the entire structure. Next the sand and stone storage piles and the concreting plant were placed at equal radial distances from the base of the 70-ft. derrick, marked *A* in Fig. 1. At the same time the concreting plant was placed as close as possible to the edge of the danger zone. The radial distance was chosen so that the boom at a fixed inclination would slightly clear the storage bins above the concreting plant. By this arrangement sand or stone can be transferred from the storage piles to the concreting plant bins by merely swinging the derrick thus eliminating slow and costly "booming."

The location of all of these structures having been satisfactorily determined, there remained the 100-ft. concreting tower. It was not possible to place this directly in front of the mixer discharge and keep outside of the danger zone. It was offset as shown in Fig. 1, and although the flat inclination that was thus obtained from the mixer discharge chute to the tower hopper caused some inconvenience, the arrangement as a whole worked satisfactorily. Counterweight chutes reached all of the caisson wall except a small section on the far side. Guying the tower also presented a problem. Wires across the caisson site would interfere with the derrick booms if carried to dead men. A 40-ft. gin pole was finally erected directly across the caisson and one guy wire fastened to it. A second wire was fastened to a leg on the tower foundation structure and the others were carried to dead men.

From a cement shed of 5,000-bag capacity an inclined

cableway track leads to the charging platform of the concreting plant. This track extends out the opposite end of the shed (Fig. 1) so that trucks can unload onto the flat cars which can then be pulled to the unloading point (either the shed or the charging platform) by the cable. The cable is operated by the tower hoist which is located in the adjacent boiler house. This is the only steam hoist on the job, the others being 75 and 40-hp. electric hoists. The concrete mixer is also run by an electric motor. The concreting plant is usual, consisting of storage bins, measuring hoppers and a 1-cu.yd. mixer. The concreting tower hopper also has a capacity of 1 cu.yd.

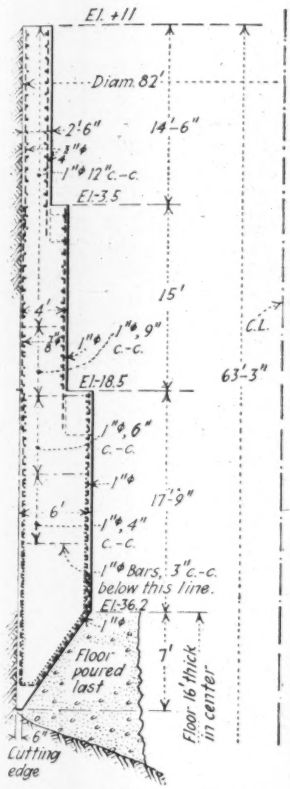


FIG. 3—SECTION OF CAISSON WALL

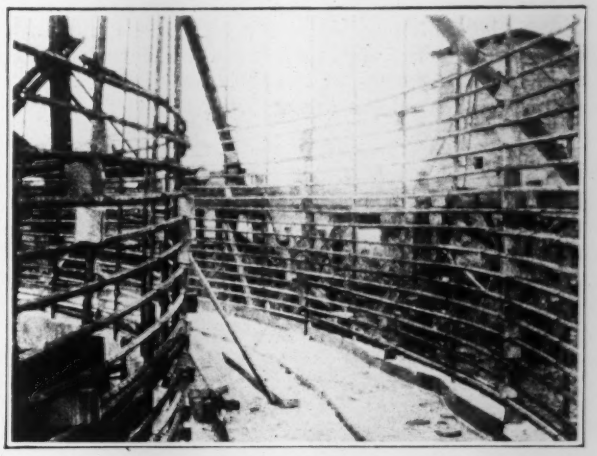
Most of the structures, as shown in Fig. 1, were constructed on piles. The piles near the edge of the danger zone were driven to grade and the wisdom of this procedure was demonstrated when two of the expected cave-ins all but left several of the piles hanging in air. The piles were capped about 10 ft. above the original ground as the contract requires a final sand fill to this elevation. An exception was the concreting tower whose pile substructure was capped practically flush with the ground in order to get the required drop from the mixer to the tower hopper.

All materials are brought in by truck, a corduroy road being built up to the sand and stone storage piles. The loads are dumped on the end of the road and transferred to the piles by the bucket of derrick *A*.

Sinking the Caisson—The section of the caisson shown in Fig. 3 indicates the type of cutting edge used. It was tapered down to 6 in. and heavily reinforced as shown but no steel shoe was used. Wooden forms in sections 8 ft. high and 8 ft. long were placed and removed by the derricks. A total of 2,000 cu.yd. of concrete was poured in the walls.

The first step was to pour an 8-ft. lift of concrete that usually took about 6 hours. The weight of the caisson caused some settlement but the greater part of the sinking was accomplished by dredging, which procedure required the remainder of the week with an average daily sinking of about 1 ft. Derricks *A* and *B* worked together on the dredging, depositing the sand just outside of the danger zone. One man with a 2-in. hose washed the material further away from the work. This resulted in a very low material handling cost. It would have been advantageous to leave the sand in the piles for use in the final fill but the excess weight was felt to multiply the dangers of cave-ins. Construction joints, as shown in Fig. 4, consisted of a keyway and two steel dowel plates. Their use has resulted in an exceptionally watertight structure.

No attempt was made to keep the water out during sinking. Much more than the actual volume of material in the caisson was dredged out for as the pressure on the inside of the caisson was reduced by the removal of material, the sand and water from the outside pushed under the toe. These cave-ins were rather frequent and several times encompassed the whole danger zone but no trouble other than the extra dredging resulted.



TYPE OF CONSTRUCTION JOINT USED
Steel is in place for forms to be raised

The bottom, of mass concrete 16 ft. thick in the center and 7 ft. on the sides, was poured through a tremie hung from the drop line of derrick *B*. On this continuous pour the plant functioned even better than expected and the 1,600 cu.yd. of concrete was poured in 35 hours. Final operations consisted in pumping water from the structure and in the construction of the floors and cross walls to carry the screening and pumping equipment.

Personnel—The Jamaica treatment plant has been designed by the Queens Bureau of Sewers, F. Seely, Assistant Engineer. The Awixa Corp., Islip, N. Y., with Claire D. Schlemmer, president and general manager, is handling the part now under construction.

Concrete Encased Steel Beams Investigated

An extensive series of tests is now in progress at Ohio State University on the strengthening effect of concrete encasement of steel beams. In part these tests parallel those carried out at McGill University a year or two ago, where it was shown that concrete of the usual dimensions and arrangement of haunch encasement applied to concrete floorbeams of buildings or bridges for fireproofing or weather protection purposes acts in full co-operation with the steel as reinforced concrete. This effect was also brought out in certain of the stress measurements on stringers of highway bridge floors by Prof. A. H. Fuller at Iowa State College. In the Ohio tests, a number of old I-beams and built plate girders, some of them badly corroded and weakened in service, were encased in concrete by surrounding them with steel mesh and applying gunite. The elastic behavior as well as the failure loading of the beams showed a great strengthening effect of the concrete. New beams gave a similar result. Tests with poured concrete encasement are also in progress.

Progress and Opportunities of Agricultural Engineering

Thirty-Nine American and Two Canadian Universities Now Offer Instruction—Fields of Service, Opportunities and Occupations of Graduates—Economy of Farm Machinery

By Q. C. Ayres

Associate Professor of Agricultural Engineering, Iowa State College, Ames, Iowa

ORTHODOX readers of *Engineering News-Record* are beginning to ask questions about agricultural engineering. They are beginning to wonder why it has weathered the storms of twenty years' existence as a distinct branch of the parent profession. They revile the editor of "Random Lines" for his grant of immunity and yet are mildly curious to know the reason why. What can agricultural engineers do, they ask, that could not be done as well or better by specialists from the civil, mechanical or electrical fields? Why have leading educational institutions all over the country accorded it such whole-hearted recognition and support? Where do professional graduates in this subject continue to find satisfactory employment year after year?

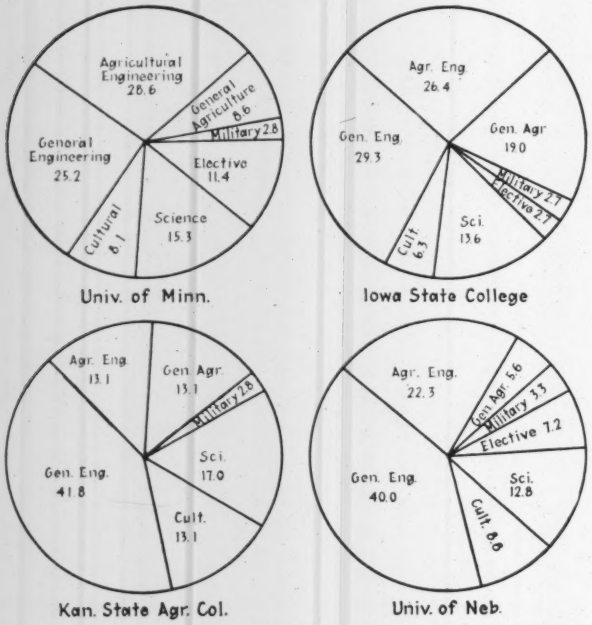


FIG. 1—DISTRIBUTION OF AGRICULTURAL ENGINEERING SUBJECTS AT FOUR AMERICAN UNIVERSITIES

	General Eng'g.	Ag Eng'g.	All Eng'g.	Science	Gen. Ag.	Cultural	Elective	Military
Average	34.1	22.6	56.7	14.7	11.1	9.1	5.3	2.9
Univ. Minn.	25.2	28.6	53.8	15.3	8.6	8.1	11.4	2.8
Iowa State	29.3	26.4	55.9	13.6	19.0	6.3	2.7	2.7
Univ. Neb.	40.0	22.3	62.3	12.8	5.6	8.8	7.2	3.3
Ia. State Ag.	41.8	13.1	54.9	17.0	13.1	13.1	....	2.8

The purpose of this article is to answer these and similar questions which are believed to be of particular interest at a time when agricultural problems are arousing nation-wide attention. The article is not intended as an appeal for converts. Rather is it a mere recital of facts regarding a movement whose record of accomplishment plainly entitles it to a better understanding among engineers.

Origin—Geographically, the movement has centered in the Middle West. Nebraska led off in 1904 by offering simple work in engineering as service courses for agricultural students. From this modest beginning, educational work has spread rapidly until in 1926 such courses were offered in 39 colleges and universities in the United States and two in Canada. During this period 78,000 agricultural students have received specialized instruction. The 1924-25 enrollment was 5,000.

The first full four-year professional course leading to the degree, Bachelor of Science in Agricultural Engineering, was initiated at Iowa State College in 1909. Nebraska and others quickly followed. Today, nine institutions offer degree courses, and such work is on the point of adoption at six others. Altogether, 276 students have received the bachelor's degree in agricultural engineering, 27 the master's degree, and 16 the professional degree of Agricultural Engineer. These figures take no account of the more than 300 old-line engineers who have specialized in this subject for years and are uniformly enthusiastic.

A typical division of subjects in the professional course at representative institutions is shown in Fig. 1. The aim has been to ground the student in the fundamercial sciences and give him sufficient training in general engineering and agriculture to engender a sympathetic attitude and enable him to combine and apply appropriate principles of both.

Functions of Agricultural Engineers—In order to explain the field and functions of agricultural engineers, the following definitions are necessary: Agriculture is the industry engaged in the production of raw material for food, shelter and clothing to fill the needs of the human race. Engineering is the art and science of organizing and directing men, and controlling forces and materials of nature for the benefit of the human race. Agricultural Engineering is the art and science of engineering identified with, and applied to, the industry of agriculture.

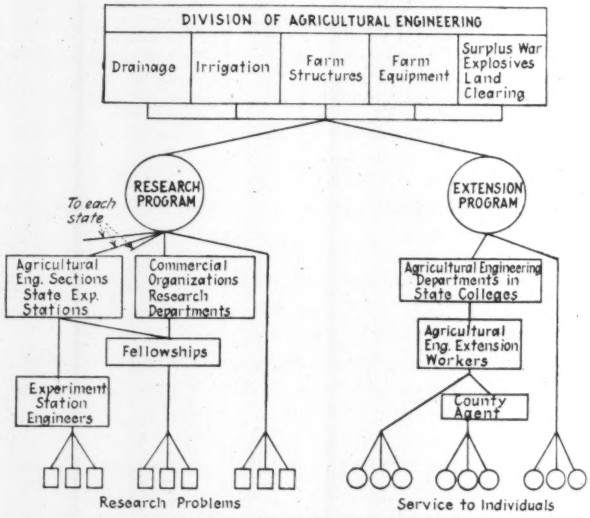


FIG. 2—ORGANIZATION CHART, DIVISION OF AGRICULTURAL ENGINEERING, U. S. BUREAU OF ROADS

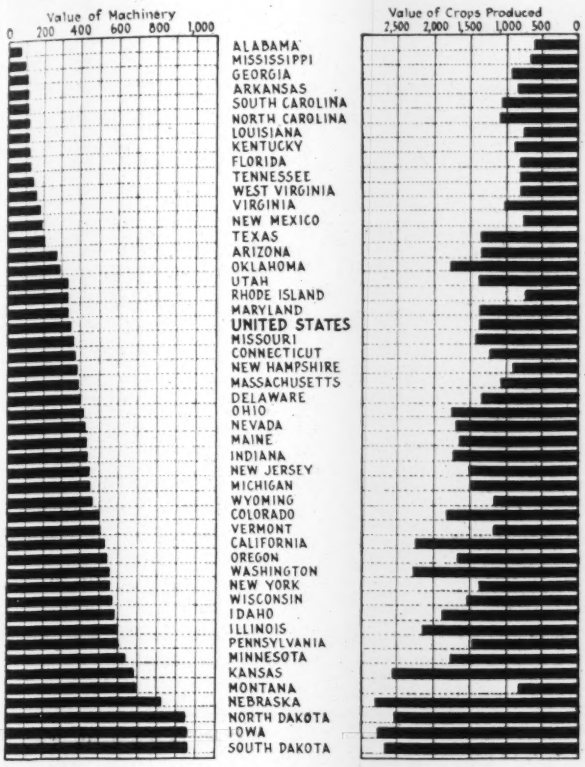


FIG. 3—EFFECT OF MACHINERY ON PRODUCTION PER FARM WORKER, U. S. CENSUS OF 1920

Agricultural engineering, being functional in character and organization, is comparable to mining engineering in its relationship to the older branches of the profession. Just as the mining engineer needs to be both engineer and metallurgist, so the agricultural engineer is both engineer and agriculturist. One is no more a hybrid than the other. In general the purpose of agricultural engineers is to serve the farmer by increasing the productive capacity of the individual farm worker and to assist in applying the income from the surplus produced for those things which contribute to his general well being.

Old-line engineers will not render such service because the field is financially unattractive and they have little time and sympathy to devote to this work even if it should become so. This does not mean that agricultural engineers are poorly paid. On the contrary, their income ranks well above the average for the profession, mainly because they work indirectly through industrial organizations and state and federal institutions, and because competition is not severe. As an example of how some of them function, the organization chart of the Division of Agricultural Engineering, Bureau of Public Roads, United States Department of Agriculture, is shown in Fig. 2.

Fields of Service—The six principal divisions of the agricultural engineering field are: (1) Farm machinery—mechanical equipment used in agriculture; (2) power used in the conduct of agricultural operations; (3) farm structures—rural architecture and the grouping and design of farm buildings; (4) farm and home utilities—water supply, sewage disposal, heating, lighting, ventilation and home equipment; (5) land reclamation—drainage, irrigation and land clearing; (6) power farming—where the use of power and mechanical equipment on a large scale is of major significance.

The introduction and development of farm machinery has been the most important factor in the development of American agriculture. The use of labor-saving machinery increases the productive capacity of the farm worker and makes possible a higher standard of living. The productive capacity of the farm worker has been increased three-fold in 75 years. That a direct relation exists between the value of farm machinery in use and value of crops is clearly indicated in Fig. 3. Fig. 4 shows the number of workers in agriculture that have been released for other pursuits by the use of improved machinery since 1850.

Power is applied by means of farm machinery to farm operations to replace or increase the effectiveness of labor. Fig. 5 shows that power bears the same relation to production per farm worker as does farm machinery. If animal power is included, the total primary power used in agriculture is 40,000,000 hp. which exceeds by 10,000,000 hp. the power used in all manufacturing industries of the United States.

Under normal conditions about 40 per cent of the building construction of the United States is upon the farm. The value of farm buildings comprises 14.7 per cent of the fixed capital of the farms of the United States, which was $77,925,989,073 as reported in the census of 1920. The distribution of this wealth is indicated in Fig. 6. Furthermore the health of livestock and the quality of dairy products is dependent in large degree upon housing conditions and sanitation of barns. Not only that, but the health and comfort of rural life in general depends to a great extent on sanitary, labor-saving and comfort-giving conveniences in farm homes.

Land Reclamation—Any further increase in the productive farm land area of the United States, when

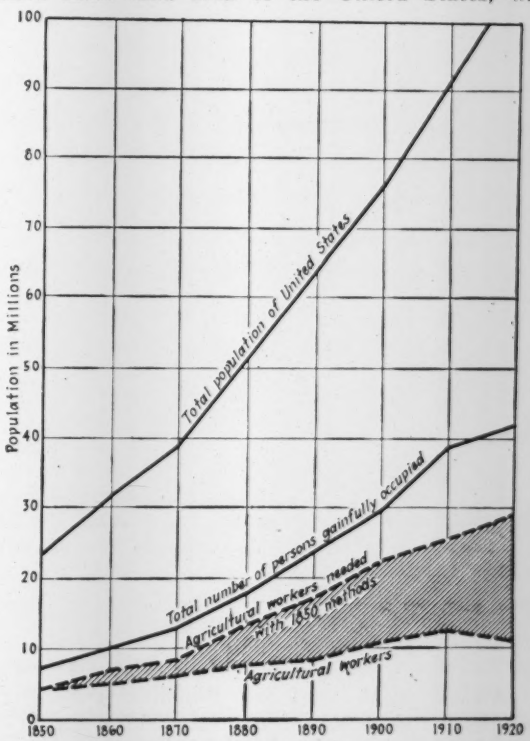


FIG. 4—AGRICULTURAL WORKERS RELEASED BY FARM MACHINERY SINCE 1850

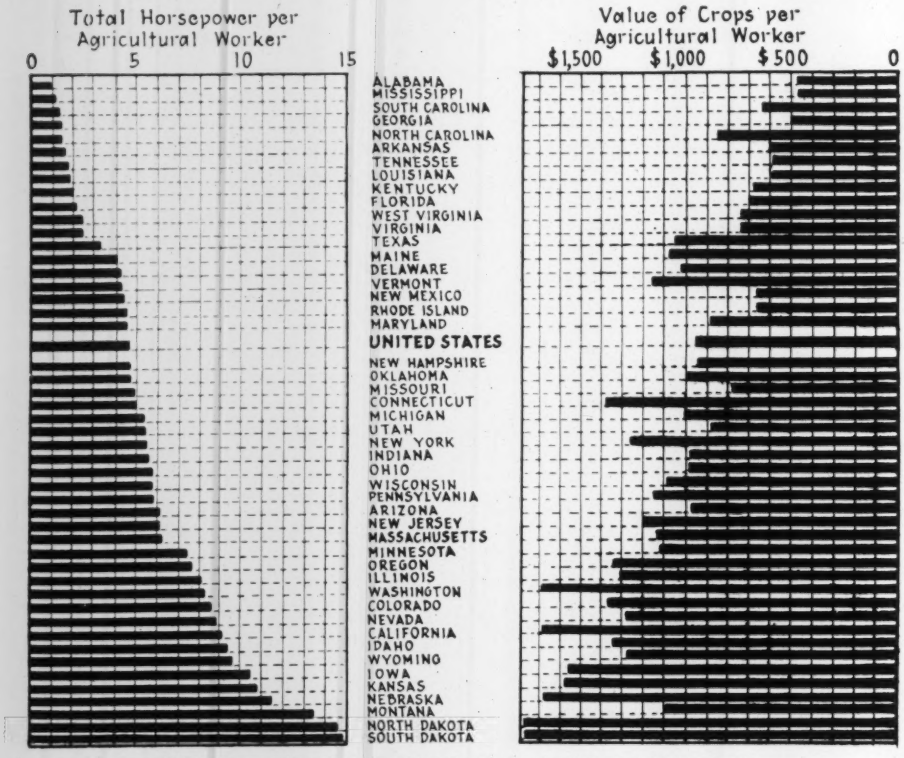


FIG. 5—RELATION BETWEEN HORSEPOWER AND VALUE OF CROPS PER AGRICULTURAL WORKER

needed, must come almost entirely through reclamation of now worthless land by clearing, drainage or irrigation. The potential increase in farm land average by the reclamation of large tracts totals 170,000,000 acres, divided as follows: Cut-over land reclaimable by

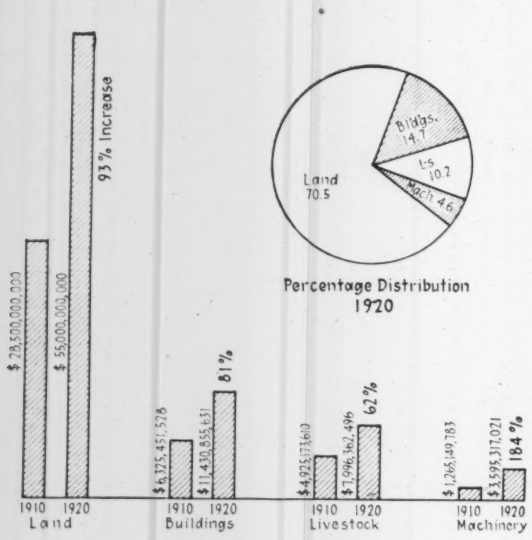


FIG. 6—DISTRIBUTION OF FIXED CAPITAL OF FARMS, U. S. CENSUS OF 1920

clearing alone, 50,000,000, and by both clearing and drainage, 60,000,000; reclaimable by drainage and by irrigation, 30,000,000 each. This represents a possible increase of 32 per cent in our present farm land area by the application of engineering methods.

According to the census of 1920, 53,024,975 acres of improved farm land were actually benefited or made of more value for agricultural purposes by direct drainage and 65,495,038 acres were provided with outlet facilities by organized drainage enterprises. In 1920, 33,598,699 acres of arid land were included in irrigation enterprises of which 18,218,549 acres were actually supplied with water in 1919. In addition, 39,110,357 acres of farm land were reported as needing drainage in the same census. Much of this occurs as small wet spots in cultivated fields, the elimination of which by drainage would lower the cost of production, make fields uniform and increases the acre-yield. As one line of tile is usually sufficient, no other kind of reclamation offers such large returns on the money invested. During the period from 1910 to 1920, it is estimated that 5,000,000 acres of land have been reclaimed by clearing off second-growth trees and stumps. The land reclamation situation is shown graphically in Fig. 7.

Opportunities for Graduates—Of these several fields, each has drawn its quota from graduates in agricultural engineering. A survey recently concluded by the writer disclosed the facts shown in the accompanying table. A comparatively large percentage of graduates who have gone into education is worthy of note since it emphasizes a wholesome trend in the early years of development and expansion of any profession. It should also be noted that only about 16 per cent are now engaged in some line of work not directly associated with agricultural engineering, which is approximately the normal defection as ascertained by the Society for the Promotion of Engineering Education. A majority of these are working in related lines such as municipal, sanitary and highway engineering. The tabulated data do not show the effects of a definite agreement recently consummated between the colleges and implement manufacturers, whereby the latter agree to absorb a certain number of graduates each year into their organizations.

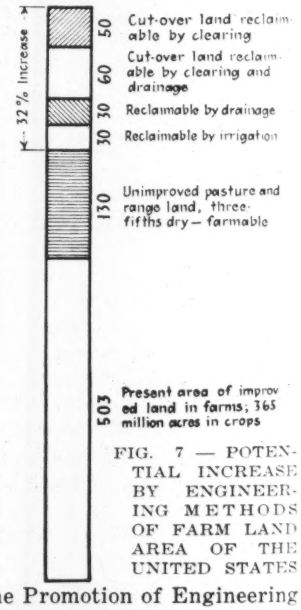


FIG. 7 — POTENTIAL INCREASE BY ENGINEERING METHODS OF FARM LAND AREA OF THE UNITED STATES

Another significant activity that augurs well for the future is the co-operative project launched about two years ago by the National Electric Light Association, The American Society of Agricultural Engineers, and various power companies and individual farmers in many states. Briefly, the purpose of this investigation is to discover ways and means of increasing the electric power consumption of individual farms to the point where it will become profitable for central stations to supply them with high-line current. In a study of this kind, the trained agricultural engineer is obviously indispensable.

The consulting field in agricultural engineering is as yet scarcely touched. There are a few engineers, however, who have enjoyed a lucrative practice in this field for some years. Their clients usually are wealthy owners of rural estates and holding companies engaging in agricultural operations on a large scale. On the whole, there is ample reason to believe that agricultural engineers will continue to perform ever more valuable service and that they will continue to grow in the respect of their colleagues and of the public.

ACTIVITIES OF AGRICULTURAL ENGINEERING GRADUATES

Institution	Number of Graduates	Deceased	Education and Research	Farm Equipment Industry	Farm Structures	Land Reclamation	Farming	Miscellaneous
A. & M. College of Texas	16	0	1	3	..	2	..	10
Oklahoma A. & M. College	2	0	2	..	..	..	..	..
Va. Polytechnic Institute	13[1]	0	6	2	1	..	1	3
Kansas State Ag. College	28[2]	0	11	6	1	3	3	4
University of Nebraska	42	0	13	8	2	2	11	7
Iowa State College	157	8	62	19	10	13	25	21
University of Missouri	4[3]	0	2	1	1	..	..	..
University of Saskatchewan	6	0	3	..	..	..	..	3
Totals	268	8	100	39	15	20	43	45
Percentage	100	2.9	37.2	14.4	5.5	7.4	16	16.6

1. Does not include 12 graduates in 1924-25. 2. Includes 3 men with A. E. degree. 3. Includes 1 man with B. S. in Ag. degree.

Skew Arches Investigated by Means of Hard-Rubber Models

EXPERIMENTAL study of skew arches is in progress in the laboratory of Prof. George E. Beggs at Princeton University, Princeton, N. J., for the committee on concrete and reinforced concrete arches of the American Society of Civil Engineers. An interesting test arrangement and method is used. The test arches are made of hard vulcanized rubber, and their strain relations are being studied by an effectively planned application of the principle of virtual displacement. In its general nature, the experimental arrangement is a close analogue to Professor Beggs' "Deformeter," used for investigating continuous structures by means of plane models. The skew arches under test have a span of about 20 in. and a rise of 8 in., and in dimensioning are precisely similar to the skew arches tested by the Bureau of Public Roads at Washington on 7-ft. spans; skews of 30 deg., 45 deg. and 60 deg. are represented.

The test arch is set upon two bed plates or abutment plates mounted on a very heavy and rigid structural steel supporting frame. The one abutment plate is fixed to this frame, while the other is supported by six adjustable rods (arranged to apply the six reaction components required for equilibrium), each of which has two short, flexible sections of $\frac{1}{16}$-in. diameter to enable it to act as a frictionless rocker support. In each of these rockers is a turnbuckle adjustment, so that by suitable manipulation of these turnbuckles it is possible to shift the abutment sideways, toward or away from the other abutment, or vertically up or down, or to rotate it in one of the three moment planes. The motion of the abutment with reference to the fixed abutment is measured by dial gages, giving readings to 0.001 in. Seated vertically on the top surface of the arch at 55 co-ordinate points are light vertical rods bearing against similar dial gages at their upper ends and footing on the arch by means of steel pins (phonograph needles) set in shallow pits in the outer surface of the arch.

To investigate the strain relations of the arch, these extrados dials are first set to zero reading; then a determinate movement of a few hundredths of an inch is given to the movable abutment, or a corresponding rotation; then the extrados dials are again read. Their readings represent the vertical displacement of the arch caused by the applied movement of the abutment, or, in other words, the effective leverage of the arch structure between the abutment and the particular point at which the reading is taken. The same ratios, then (by virtue of the well-known reciprocal theorem), represent the force ratio between a vertical load applied to the arch at the point considered and the abutment reaction in the direction of the movement applied in the experiment. Thus, in a few "runs" it is possible to obtain complete sets of influence values for the arch reactions. Completion and discussion of the results will probably take several months, and in the meantime an analytical study is being carried out for comparison with the experimental results, with a view to determining the applicability and limit of precision of the theory.

New South American Transcontinental Railway

Renewal of work on the new Argentine-Chilean transcontinental line, headed for the Pacific port of Antofagasta, is reported as probable under the new Argentine government, which is favorable to railway development. The construction of the Argentine portion of the line, in which much American machinery and equipment was used, was described in *Engineering News-Record* of Aug. 30, 1923. Soon after that time, political changes and the impossibility of getting the Argentine Congress to take any action or to vote funds, caused first a reduction and eventually almost complete stoppage of work. For some time the rail-head has remained at Puerta de Tastil and the only work of importance done since then has been the completion of all tunnel work as far as the Abra de Chorrillos. Grading is ready for some 80 miles ahead of the present rail-head and there has been finished a little more than 70 per cent of the work, as regards cost. The amount of heavy grading, tunnel and viaduct work to be completed is small, although the heaviest bridge on the line is yet to be constructed. this is the Munal viaduct, 787 ft. long and 246 ft. high. The Chilean government has approved the Barros-Jarpa Noel treaty which assures the initiation of the work on their section as soon as this treaty is ratified by the Argentine government.

Concrete Bridge Designed for Elastic Movement

Swedish Railroad Bridge in Cold Climate Uses Steel Hinges, Different Concrete Mixes, Large Expansion Joints, and Expansion Slide Plates Under the Floor

By Charles R. King
Member, Institution of Civil Engineers, London, England

THE PECULIARITY of the reinforced-concrete railway bridge of the Swedish State Railways which crosses the River Ore about 85 miles northwest of Stockholm near the town of Krylbo, consists in the mechanical jointing together of eight separate monolithic sections, Fig. 1, each subdivision being further designed to permit in itself elastic movements under temperature variations and loads. All the transverse gaps in the structure for permitting elastic movement in vertical and horizontal directions were made watertight by a system of layers of lap-jointing, which is in turn covered with pliable materials, the whole resembling fish scales. Besides the mechanical jointing in the sections composing the bridge, the concrete itself is constituted of a mosaic of different strengths, in order to resist or to yield, according to the local needs. The various proportions, the locations of which are indicated on Fig. 3, were determined by an elaborate series of tests made in connection with the design.

Durability under severe conditions of climate and rolling loads is the main purpose of such refinement in construction. The bridge is located at 60 deg. north latitude, and subject, therefore, to a very wide range of temperatures. The main arch span is about 295 ft., and the whole bridge is built on a grade of 1.1 per cent. A

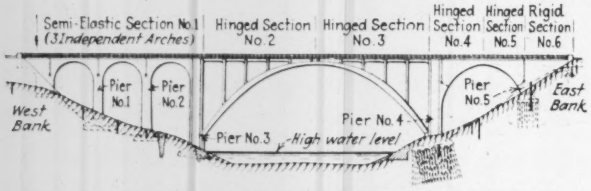


FIG. 1—SKETCH SHOWING INDEPENDENT SECTIONS OF BRIDGE

large amount of centering was necessary as shown in Fig. 2, this falsework, in fact, costing nearly three times as much as the arch itself.

The bridge was designed by Prof. Otto Linton, of the University of Stockholm under the general conditions drawn up by the director of roads and waterways, Rolf Moberg. The construction work was carried out by the engineering firm of Kreuger & Linton.

Foundations and Piers—The two piers on the east bank of the river are supported on a concrete pile foundation. Wooden piles were used under the river abutments supporting the falsework.

The concrete cap on top of the piles for the east bank river pier No. 4 measures about 60x55 ft. and stands with a slope of 1:6.8 from the horizontal line as planned with regard to the thrust from the main arch ring. The reinforcement in this cap consists of a crossed steel-rail mat on the bottom and 1-in. round bars set at an angle of 45 deg. in both the longitudinal and transverse directions in the main body of the cap. This detail, as well as others hereinafter referred to, is shown in Fig. 3.

The east bank piers are made hollow, are heavily reinforced, and are braced at various heights by transverse beams of reinforced concrete with their ends carried in wall mortises. The approach bridge walls on the east bank are also braced by three full height transversing walls.

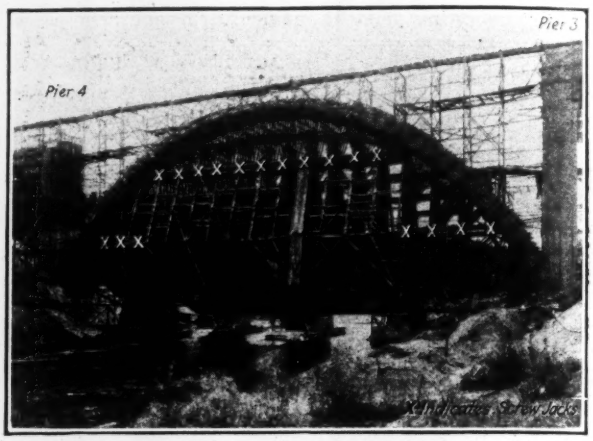


FIG. 2—MAIN ARCH CENTERING UNDER FULL LOAD OF CONCRETED ARCH
The falsework cost nearly 3 times as much as the arch itself.

The west bank piers are carried on natural foundations. In the top of each of these piers is placed a 20-in. expansion gap 24 ft. deep, shown in Fig. 3.

Steel Hinges—The two largest arches in the structure are supported by six transverse rows of steel hinges. There are five hinges in each abutment course, each set held together by a steel pin, 3½ in. in diameter with a total bearing length of about 23 ft. 3 in. The halves of each hinge are similar, and are held together by their own weight, with a slight space between their knuckles to permit a small radius of rotation about the pin. This space is filled with natural tar for waterproofing.

The steel hinges are connected to the ordinary steel reinforcement by means of spiral reinforcement having coned diameters. There are nine spiral reinforcements to every five hinges in each main arch abutment; each crown hinge has eight spirals as shown in the detail in Fig. 3 and also in Fig. 4. The smaller arch, about 106 ft. in span, is similarly hinged but with smaller fittings.

To make the line of hinges on the main arch abutment waterproof, particularly from snow and rain draining down the arch extrados, the foot of the arch ring terminates with a concrete spur which projects into a niche in the pier wall. This leaves a joint which is filled with a plastic waterproof material.

Floor Slides—The bridge floor is rigidly attached only at the crown of the main arch, so that its two ends are free to move longitudinally on the main pier abutments under the guidance of steel expansion slides shown in detail in Fig. 3. The floor consists of four stringer beams and a trough of concrete filled with ballast to carry the railroad track. Under each beam is the ex-

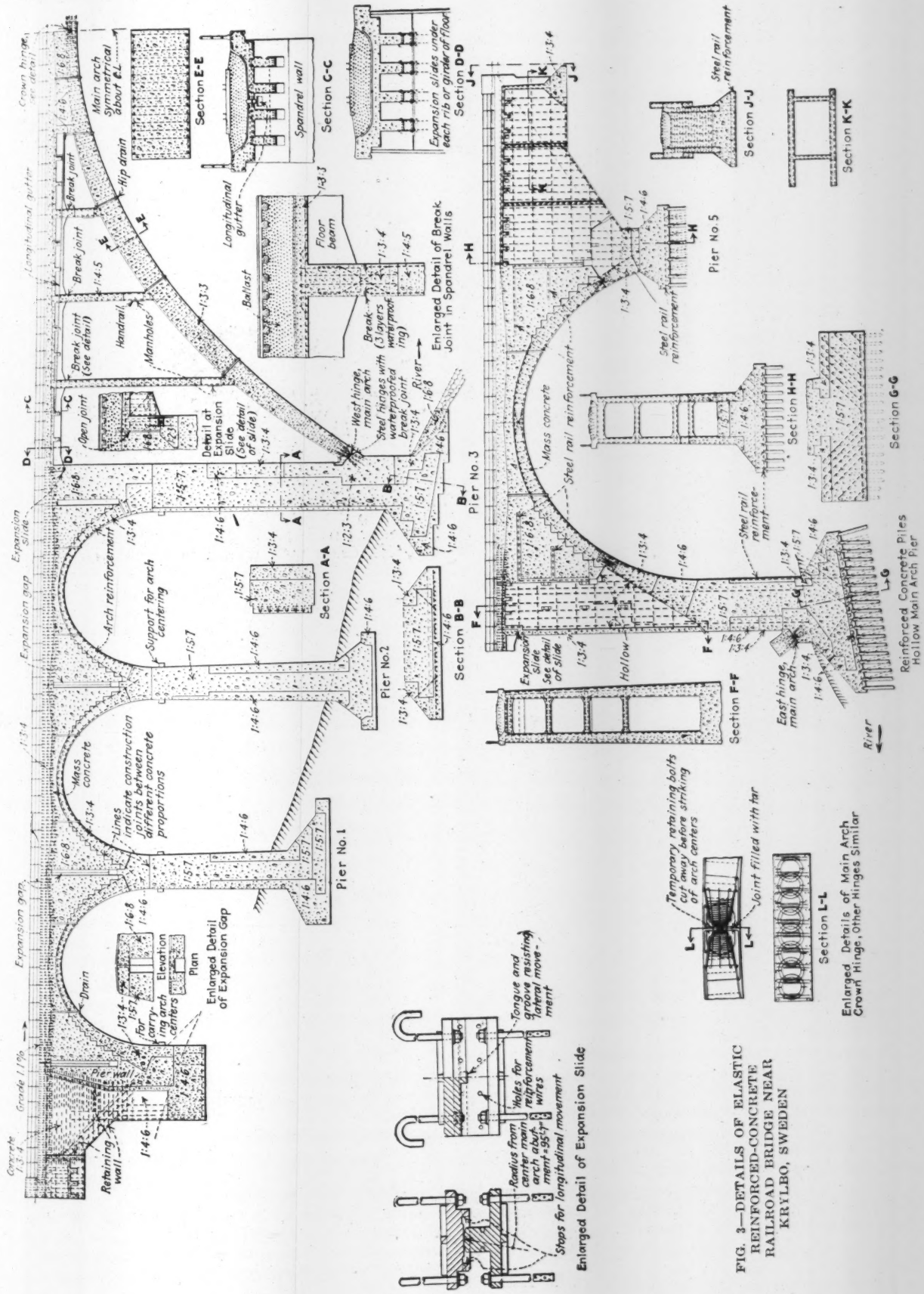


FIG. 3—DETAILS OF ELASTIC REINFORCED-CONCRETE RAILROAD BRIDGE NEAR KRYLBO, SWEDEN

pansion slide consisting of a fixed plate that slides on a railhead 19½ in. long aligned crosswise to the direction of the floorbeam. The upper surface of this railhead is rounded so that the plate above it rests on less than 2 in. of surface. The bridge floor is thus free to deflect vertically from that point in accordance with the floor swing through a radius of 95 ft. 7 in. as struck from the center of the main arch abutment hinge. Beyond the limits of all possible longitudinal movements, there are stops on the upper bracket. Also, all lateral mavement is made impossible by cutting a slot through the middle of each supporting rail, into which engages a tongue cast in the center of the upper bracket.

The spandrel walls were also designed to permit free expansion movement of the floor. This object was attained by inserting break joints consisting of three different sized layers of waterproofing cutting into the walls by one-third of the thickness from each side as shown in detail in Fig. 3. In this detail, it is also noted that the reinforcement is crossed diagonally in an X-form.

This arrangement of steel is designed to permit a semi-pivotal movement in the surrounding concrete. The shortest spandrel wall nearest the arch center is provided at top and bottom with two breaks in continuity, but the other two deeper walls have such joints

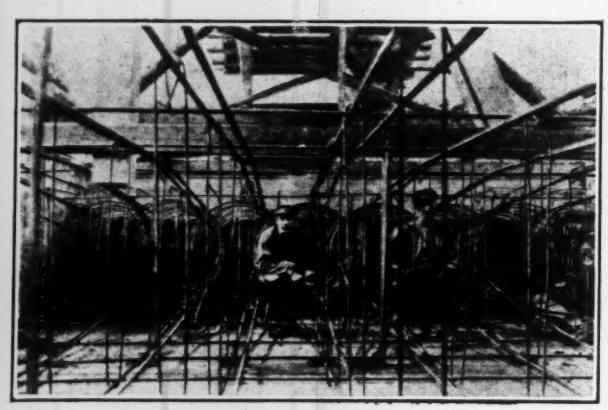


FIG. 4—SPIRAL REINFORCEMENT AT BACK OF STEEL HINGES IN THE ARCH CROWN

only below the floor level, because the relative thinness of these latter walls, considered with regard to their height, was estimated to contribute to the necessary swinging movement.

Drainage and Waterproofing—Much care was exercised in the design of drainage and waterproofing details in the structure because of the several large openings used in its design.

Transversely, the bridge floor is of trough section draining towards the middle and longitudinally is divided into a series of cants. The ridge on these cants corresponds with the break in the concrete for permitting temperature movements. This is shown in detail in the upper part of Fig. 5. Here the mass concrete was first covered with a layer of asphalt, and then a layer or cap of 1:3 concrete was run on a wire mesh. The break, or vertical gap, through the three layers is then covered, first with a sheet of tarred felt, then with sheet lead and finally is covered by a sheet of tarred felt.

The floor drains in the valleys have domed caps the flanges of which are seated in tar on layers of tarred felting that extend upward under the sheet of pliable tar which latter is covered by the cap of 1:3 concrete.

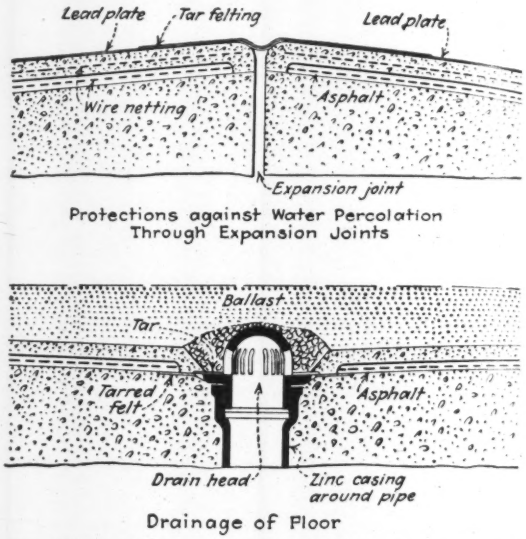


FIG. 5—WATERPROOFING AND DRAINAGE DETAILS

See lower part Fig. 5. The drain head sockets into a cast-iron drain pipe bedded in the mass concrete of the floor, but it is cased externally with zinc sheeting to waterproof the concrete. The outlet pipe drains into a pressed metal gutter, shown longitudinally in Fig. 3. The arch ring abutments are drained from their sides, as the hinges placed there require special precautions. The smaller hinged arch is drained direct from the floor above, which in this case forms part of the arch. The hollow piers, 4 and 5, have drain courses at their deepest levels in case sleet or snow enter by the ventilation holes and tend to cause corrosion.

The arches on the west bank form part of the floor and are drained direct through from the ballast. The deep expansion gaps, which run down to the level of the springing of each western arch, are provided with drain courses and outfall pipes at their deepest level. The floor surface above these gaps is filled with natural tar for waterproofing.

Ohio River Regulation at Evansville

The Chief of Engineers has recommended a modification of the existing project for the improvement of the Ohio River, to protect a bend known as the Kentucky Peninsula and hold the channel of the river as it passes Evansville, Ind. This work involves the reforestation of the sloughs on the Kentucky Peninsula and on the bank as well as the bank protection, at an estimated cost of $200,000, provided local interests furnish without cost to the United States all land necessary for the purpose. The District Engineer fears that unless such work is done, the Ohio River in flood stage may cut its channels through the Kentucky Peninsula some six miles distant. This change in the channel would not only cut off Evansville but would probably materially change the sediment of the stream below. The recommendation by the Chief of Engineers has been approved by the Secretary of War.

Crossing Elimination and Road Relocation in California

Examples Selected from Recent Operations Indicate Methods Followed and Costs Involved

Removal of grade crossings and line improvement to avoid crossings has in California in common with other large road building states involved in recent years a number of major highway construction operations. From information got from the state highway commission a number of these operations are outlined here. They are of enough variety to indicate practices, though no attempt is made completely to catalog the work done or contemplated. Examples of elimination both by separating grades and by relocating to avoid crossings are included. In several instances some account of the economics and cost of the improvement has been possible.—EDITOR.

SINCE 1924 there have been completed or put under construction on California state highways 14 grade crossing eliminations costing about three-quarters of a million dollars. There are now planned for early elimination six major crossings. These are but a fraction of all crossings. In 1922 the state highway commission in conjunction with the Bureau of Public Roads and the State Railroad Commission made a study of grade crossings on state highways. A total of 573 crossings were investigated, 446 of which were outside the corporate limits of cities and the remaining 127 within the limits of cities but on state highway routes. A classification of these crossings was made as follows:

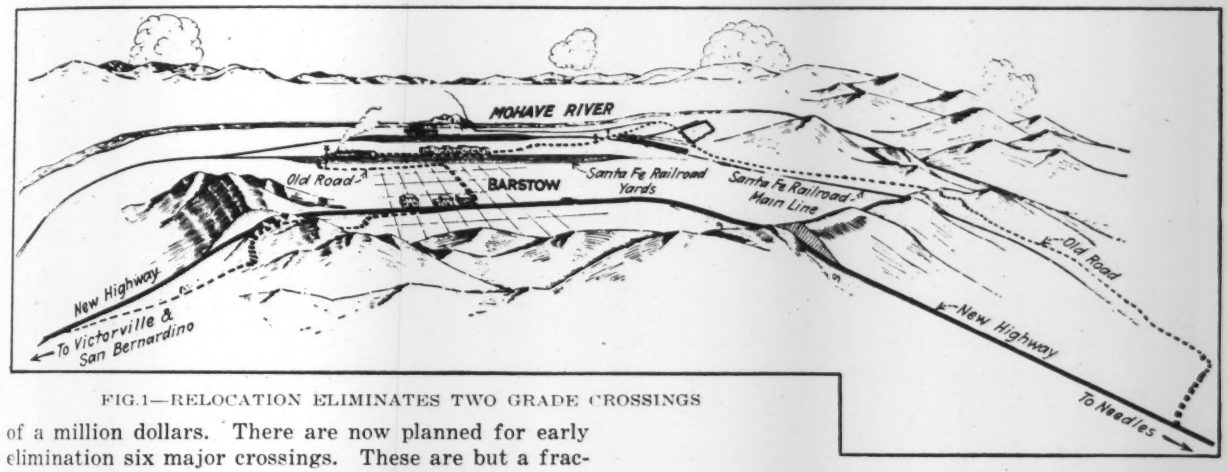


FIG. 1—RELOCATION ELIMINATES TWO GRADE CROSSINGS

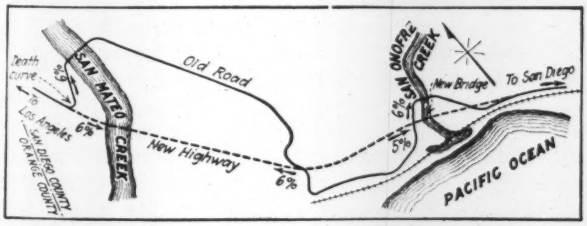


FIG. 2—RELOCATION CUTS OUT SIXTEEN CURVES

Class I—Crossings possible of elimination by relocation. (This number is indefinite.)

Class II—Crossings of a primary highway and trunk line railway of two or more tracks, 24.

Class III—(a) Crossings of a single-track line and a primary or trunk highway or of any trunk line and secondary highway, 71; (b) crossings of a single-track line carrying a moderate traffic (not a transcontinental road) and a primary trunk or secondary lateral. Includes important suburban electric railroads, 58.

Class IV—(a) Crossings of unimportant single track steam or electric lines on which service is limited and primary trunk or secondary lateral highways, 124; (b) crossings of spur and switch lines with all highways, 114.

This classification it will be observed gives primary place to crossing elimination by highway relocation. One of the examples of relocation given indicates the possibilities where the occasion presents itself. However, relocation is a broader problem, usually, in which crossing elimination is one factor. The examples here given are presented in this broader aspect. The common crossing elimination involves grade separation and not relocation to avoid crossings.

Grade Separations—Of the 14 crossing eliminations previously mentioned two only were line relocations; three were overhead bridges and nine were subways. Fig. 3 illustrates and describes several of these crossings. The most expensive was that at Montebello in Los Angeles County, costing $200,000. Of seven proposed eliminations that are planned for the near future, one is an overhead crossing and six are subways. Of the latter, the most notable is the South San Francisco underpass, estimated to cost $250,000, described in *Engineering News-Record*, Nov. 12, 1925, p. 815. In respect to grade separation, the cost is usually borne jointly by the railroad company and the state, but counties and other political subdivisions often are willing to participate. Division of cost among the various participating bodies is affected by features pertinent to particular crossings and frequently is agreed to in advance, but in some instances it is necessary to have the State Railroad Commission determine the matter. In all instances official authorization for the project must come from the railroad commission.

The design of structures for grade separations is a duty of the bridge department of the highway commission. The plans, of course, have to meet with the approval of railroad engineers and the railroad commission. Generally the work is done by the state, but sometimes the railroad company desires to construct a portion of a subway or superstructure. Construction by railroad forces does not mean that the work is being done solely at the expense of the railroad. It means, merely, that a co-operative agreement has been reached

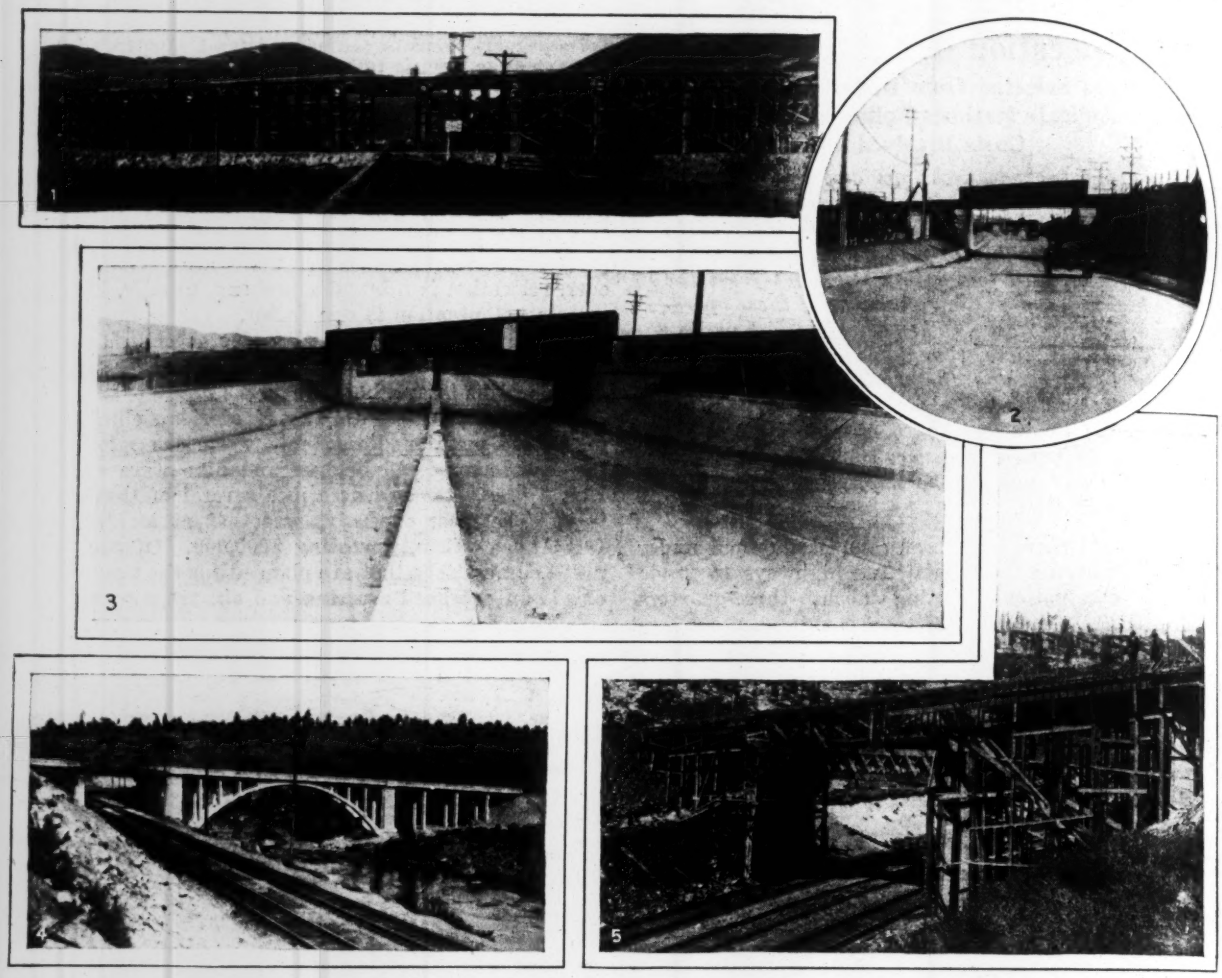


FIG. 3—TYPES OF GRADE SEPARATIONS ON CALIFORNIA STATE HIGHWAYS

1. Pisno, San Luis Obispo County—Overhead structure of reinforced concrete girder type over tracks of Southern Pacific; J. L. Webster, contractor; estimated cost $60,000. Part of important realignment project.
2. North Sacramento, Sacramento County—Subways under the tracks of the Western Pacific and Sacramento Northern railways made possible the removal of a dilapidated wooden trestle which crossed the railroad lines at grade. Lord Bishop, contractors; cost $59,000; completed in January, 1926.
3. Montebello, Los Angeles County—Largest subway on state highway system, located south of Montebello on Los Angeles-Whittier highway, one of the heaviest traveled state highways. Original narrow highway, crossing tracks of Los Angeles and Salt Lake Ry. (Union Pacific System) at grade, has been widened to 56 ft. and a modern structure built to eliminate the grade crossing. The subway has two one-way openings, each with 28-ft. clear width, dividing traffic into three lines each way. Subway was built by the railroad company, the highway commission co-operating at a cost of $200,000. Completed March, 1926.
4. Polaris, Nevada County—Crossing of two main line tracks of the Southern Pacific Co. and Truckee River was affected with one structure, an arch spanning the river, the tracks passing under the girder approach span. Proctor & Cleghorn, contractors, cost $53,000; completed October, 1925.
5. Hinton, Nevada County—Overhead structure in the Truckee River highway, crossing the tracks of Southern Pacific. T. H. and M. C. Polk, contractors; estimated cost $30,000.

for the work to be done by construction forces of the lines. The railroad commission as a general rule assesses at least 50 per cent of the cost of all grade separations to the public.

Road Relocation—As an example of highway relocation primarily to eliminate grade crossings, the new line of the National Old Trails route through Barstow as shown by Fig. 1 is notable. The old county road, shown in the illustration, followed a tortuous course through the town, crossing the main line of the Santa Fé railroad twice and passing through its freight yards. It had many right-angle turns and the view at two of the crossings was obstructed. Accidents were frequent. The grading of less than three miles of the state highway shortened the distance 1½ miles and eliminated the three railroad crossings.

For gains purely by curve elimination the relocation shown by Fig. 2 is selected. Here a relocation only two-thirds of a mile long cut out 16 curves. The new location required the construction of two bridges but in building these it was possible to provide for future traffic requirements to such advantage that this part of the cost cannot be charged wholly against the relocation. The old location involved three curves on which accidents were frequent and ofttimes fatal. Two of these curves were at the foot of 6 per cent grades and on the edge of streams as shown in the illustration. Although bad accidents have occurred at all of these curves there were so many more fatal accidents at the very sharp curves at the extreme left that this came to be known as "Death Curve."

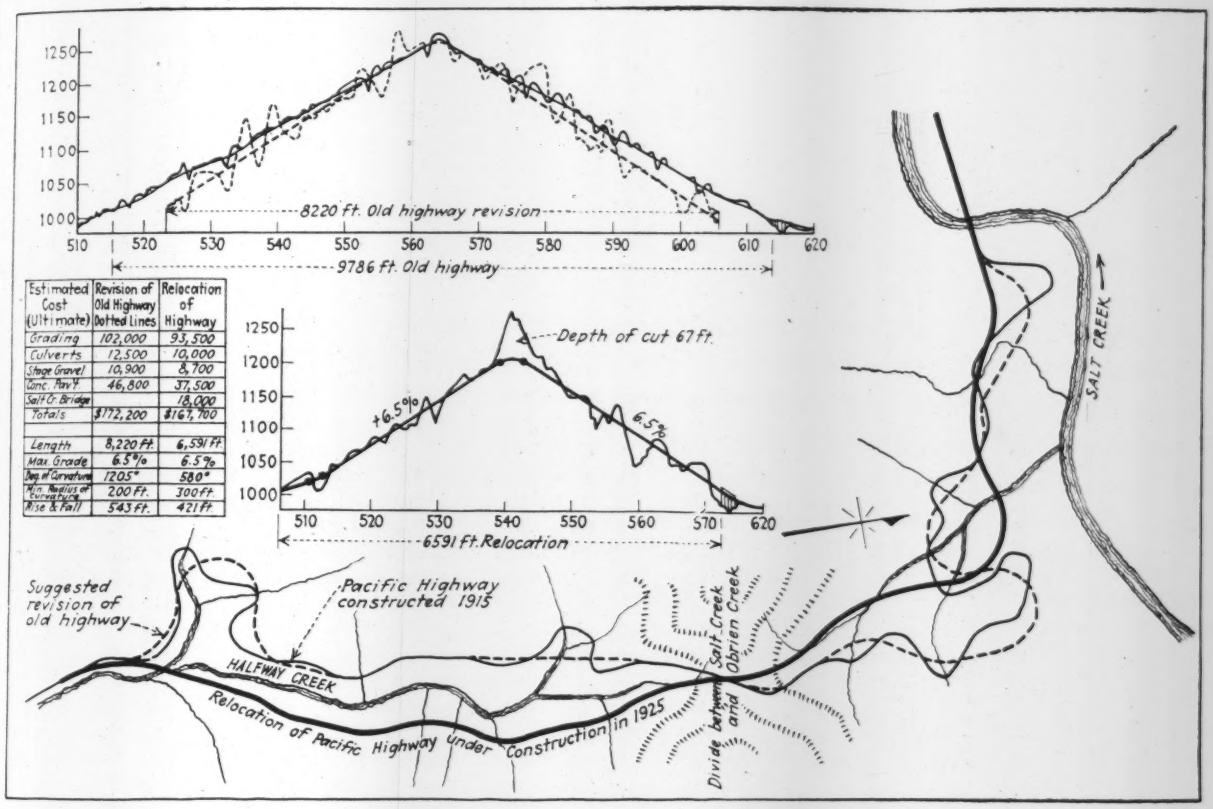
Relocation from the point of view of traffic economies is represented by the new line of the Pacific Highway through Sacramento Canyon. An account of this project as given by H. S. Comly, division engineer, Redding, Calif., is as follows:

The original construction of the Pacific Highway between Redding and Dunsmuir in Shasta County was in 1915. In accordance with the situation then existing, engineers of the department were instructed, if possible, to build a road through the Sacramento Canyon at an expenditure of $4,000 per mile. It became apparent as soon as surveys were under way that this could not be done, and, after the work was completed to the lowest standard which would come within the meaning of the word "highway," a 17-ft. graded road had cost an average of $10,000 per mile. The grading was done between the years 1914 and 1917, and represents the 1915 standard of California mountain road construction.

In 1923, when the commission decided to complete the main trunk lines and interstate connections, it became apparent at once, because of the fact that the traffic had increased so rapidly during the previous eight years, that the Sacramento Canyon section of the Pacific Highway had been built on too low a standard. Placing of pavement on the crooked, narrow grade could not be considered. Decision was made for a bold relocation on standards which would fufill the demands of present and future traffic.

Surveys for reconstruction of the sixty-five miles of highway grade between Redding and Dunsmuir were started late in 1923. Construction work began in January, 1924. In 1925, 34 miles of old line had been reconstructed. On this portion, the distance has been shortened three miles, the new highway measuring only 31 miles. A location survey for the remainder of the canyon section is finished and shows a total saving of 6.5 miles. When the reconstruction is completed, the distance from Redding to Dunsmuir will be reduced from 65 to 58.5 miles, or 10 per cent.

Assuming the average cost of operating a motor vehicle to be 7½c. per mile, the shortening of distance will save every vehicle traversing this section of highway about 50c. per trip. Traffic now averages, throughout the year, about 1,000 vehicles a day and the saving is $500 a day or about $183,000 a year. Capitalized at 5 per cent, the saving in distance alone would warrant the expenditure of $3,660,000. The cost of construction, including bridging, will be about $2,750,000. Therefore the reconstruction more than pays for itself by the factor of distance saving alone, based on present traffic. The distance to be paved will be about 56 miles, and this will cost approximately $2,000,000. The shortening of distance will not only pay for the reconstruction but also a large part of the paving bill.



Estimated Cost (Ultimate)	Revision of Old Highway Dotted Lines	Relocation of Highway
Grading	102,000	93,500
Culverts	12,500	10,000
Stage Gravel	10,900	8,700
Conc. Pav't.	46,800	37,500
Salt Cr. Bridge		18,000
Totals	$172,200	$167,700
Length	8,220 ft.	6,591 ft.
Max. Grade	6.5%	6.5%
Deg. of Curvature	120.5°	58.0°
Min. Radius of Curvature	200 ft.	300 ft.
Rise & Fall	543 ft.	421 ft.

FIG. 4—RELOCATION REDUCES DISTANCE AND CURVATURE OVER 30 PER CENT

These figures are rather startling in view of the fact that they are based only on present day traffic. It may be conservatively estimated that traffic will more than double during the next five years, by which time it is hoped the paving will be completed.

Saving of distance is by no means the only important feature of this work. If it were possible to capitalize the improvement in width, alignment and grade, the figures would be even more surprising. The width of the completed roadway, including drainage ditches, will be 27 ft. on sidehill construction and 30 ft. where the construction is not so heavy, as compared with 17 ft. on the old grade.

The minimum radius of curvature will be 300 ft., as against 50 ft. on the original highway. The number

of curves will be reduced more than one-half. While the maximum grade will still be 6½ per cent, several miles of maximum grade will be entirely eliminated, and many more will be reduced to 4 per cent or less. The total ascent and descent will be greatly reduced by this means.

What advantage this means in increased speed, coupled with increased comfort and safety of traffic, in accidents prevented and lives saved, can not be estimated in dollars and cents; the advantage can not be denied, however.

In planning the reconstruction through the Sacramento Canyon, exhaustive investigations were made to insure attainment of the most satisfactory results. Various possible solutions of each problem were considered, preliminary lines run, projections made and comparisons of cost studied. These investigations and the final location, including plans, cost, on the average, $1,250 per mile, or 2½ per cent of the cost of the work. While it is not possible to arrive at an exact saving by reason of the excess preliminary cost, it is probable an expenditure of $500 per mile, over the minimum cost of surveys and plans, is saving not less than $2,500 per mile in construction. Besides this actual saving the most perfect final location consistent with the standards adopted has been arrived at and there is assurance that the alignment and grades are the best that can be worked out.

While a considerable part of the improvement is brought about by widening the existing roadbed and flattening or eliminating curves, there are many instances where a complete abandonment of the old highway has proved advisable and economical. A typical instance of this is illustrated by the accompanying sketch, Fig. 4, of the relocation over the Salt Creek divide, now under construction. As indicated in the tabulation accompanying the map, the ultimate cost of the improvement by complete relocation is less than by a simple line revision and widening of the existing highway, as indicated by the dashed lines. This is true despite the fact that a concrete bridge across Salt Creek has to be demolished and a larger one on a higher grade line built in its place. The relocation necessitated an 81-ft. cut at the summit, containing about 80,000 cu.yd. of excavation.

It also will be noted the use of curves of 300-ft. radius was not possible along the old highway, and that the line revision included two bad loops made up of curves of 200-ft. radius. The relocation has only two curves of less than 500-ft. radius, one of 300-ft. radius and another of 325 ft. The total curvature is reduced from 1,205 deg. by line revision, to 580 deg. by relocation. It will also be noted the relocation is 1,629 ft. shorter than the line revision in a distance of a mile and a half.

Compared to the highway of 1915, the relocation saves 0.6 mile in a distance of 1.9 miles, and reduces the number of curves from forty to fourteen. The improvement in width is denoted on the sketch which shows the relative width by exact scale. The rise and fall is reduced by 130 ft., and the length of maximum grade by about one-half mile.

Direction—The work described has been performed under the direction of the California Highway Commission, R. M. Morton, state highway engineer.

A.A.E. Convention Reveals Sound Internal Condition

Membership and Finances Again in Satisfactory Shape—Association Will Publish a Professional Manual

SATISFACTORY internal and administrative conditions were brought to light at the twelfth national convention of the American Association of Engineers, held last week at Philadelphia. Disagreement over internal policies has marked the conventions for several years past, but on this occasion it was quite absent, and at the same time the reports of the officials showed a stable condition of membership and finances—equally in contrast with conditions that had prevailed for several years.

Steps were taken to develop the work of the association in several important respects. A plan was adopted for publishing a professional manual of engineering. Special publications are also to be put out covering the rules of practice and decisions in practice cases worked out by the association. A service pledge was adopted. Life membership was instituted by the directors, and it was decided to create a permanent fund, to be built up by setting aside monthly 5 per cent of the association's income. The intention was expressed to develop further the association's employment service, though for the present no new offices (the two now existing are in New York and Chicago) will be created.

At present the total membership of the association is about 6,900, composed of 5,300 adult members and 1,600 student members. This figure represents an increase of about 1,200 over the minimum, reached six months ago. As membership records now are kept on a paid-up basis, the present total is believed to be free from inflation by overdue expirations. Equal improvement is shown in the finances. Careful management of the association's money affairs resulted in a gain of surplus of $7,500, as against a loss of $6,200 in the previous year, in the face of a reduced income.

Publication of *The Professional Engineer* practically covered its cost (with a fixed allotment from dues to cover subscription charge). The same is true of the employment service, which placed about 500 men in the 12 months.

Committee Reports—Arthur C. Richards presented, for the committee on services and salaries of engineers in public service, an encyclopedic review of cost of living, income and classification of services of engineering officials of cities, counties, states and the government. The report was presented only in brief abstract. A coordinate report was rendered on the subject of services and fees for practicing engineers by Paul Hansen. This presented a curve of proposed percentage fees recommended as minima, for work costing less than $1,000,000; it ranges from a maximum of 6 per cent for a $10,000 undertaking to 3½ per cent for $1,000,000, when design specifications and construction supervision are included; and from 4 per cent down to ¾ per cent for preliminary investigations and reports.

Reporting for the committee on permissible free public service, Victor H. Cochrane recommended that the association or its chapters should not undertake public service when the required work consists of development

of details and does not involve skilled professional opinion; when the required time and labor are such as to constitute a hardship upon those who would undertake the work; and when there are no individuals in the group having the specialized knowledge and skill for carrying out the service effectively.

The problem of engineering competitions was brought to the front by the report of the practice committee, which during the year considered one case of this kind. It suggested that the association draft a code to govern the conduct of engineering design competitions similar to the corresponding architectural codes.

Registration of engineers was less actively dealt with during the past year than previously. The committee on registration reported various local criticisms of registration laws. The report and the discussion bore particularly on the Pennsylvania law, which it was charged is badly administered; it is now before the court for a determination of its constitutionality, with a lower court decision against it.

Considerable active discussion on various questions concerning registration developed after reading of the report. O. Laurgaard, city engineer of Portland and chairman of the Oregon Board of Engineering Examiners, described the successive improvements of the Oregon registration law by amendment, and said that the state is now in a position to investigate violations and to use registration funds for prosecution of violators. He suggested making registration a condition of membership in engineering societies or in the association chapters, as has already been done in the charter of the new Portland Chapter of the association. The formation of societies of professional engineers is an undesirable development, he declared. Arthur C. Richards, of Altoona, referred to the fact that 25,000 engineers are now registered in the 27 states having registration laws, against a total membership in the four principal technical societies and the association of about 40,000, and a census enumeration of about 90,000 engineers. This slowness of development of the registration movement, and conditions arising from the grandfather clause, which were criticised by some members, are outweighed by the fact, Mr. Laurgaard stated, that through registration laws we are building the engineering profession of the future. Later the convention passed a resolution in favor of energetic continuance of the campaign for registration laws and their improvement.

A plan developed during the past year for the preparation of a professional manual of engineering was endorsed and adopted by the Board of Directors and by the convention. This manual is intended to assist business men, public officials, and the general public to a better understanding of the professional phase of engineering work and the reasons for professional standards, codes of ethics, practice rules, and fixed fees.

Organizational Affairs—It was decided to award a gold medal annually for the most significant achievement in welfare work during the year. The committee on award is to consist of two members of the association and three prominent engineers selected without regard to association membership.

The following service pledge was selected by the Board of Directors from among a number prepared by various members during the past year, the adopted draft being that of retiring president D. B. Steinman:

We dedicate ourselves to the service of mankind as members of the engineering profession.

We consecrate our professional knowledge and skill to the advancement of human welfare, safety, and progress.

As we benefit by the technical knowledge and public esteem won for the profession by the engineers who labored in the past, we shall ever strive to augment that heritage before passing it on to the engineers who are to follow.

We therefore affirm our guiding purpose:

So to live and work as to justify the trust and confidence reposed in the engineering profession.

To carry out professional engagements with generous measure of performance, and with fidelity toward those whom we understand to serve.

To foster a spirit of courteous consideration and fraternal co-operation within the profession.

To extend encouragement and a helping hand to younger engineers and to those in need.

To place service before profit, the honor and standing of the profession before personal advantage, and the public welfare above all other considerations.

Two minor changes in administrative system were instituted. The convention decided to elect each year a nominating committee, instead of leaving nominations for officers to the membership and to the directors. It adopted a slightly modified form of offering and voting amendments to constitution and by-laws.

Election of officers for the coming year resulted in the choice of C. J. Ullrich, of the engineering firm of McGonagle & Ullrich, Salt Lake City, as president, over George E. Taylor of West Virginia. W. R. Harris, of Cleveland, won in the contest for first vice-president, and Donald M. Baker, of Los Angeles, for second vice-president. The newly elected directors are: J. M. Buswell, C. W. Cross, V. H. Cochrane, C. S. McKee, H. G. Culverhouse, E. G. Haines, and J. Denison. The convention voted in favor of Tulsa, Okla., as the seat of the 1927 convention.

Addresses—Of a number of addresses of general interest that were a feature of the convention, the following may be noted. Mrs. L. M. Gilbreth, of Montclair, N. J., dealt with the subject of motion study as related to fatigue and other factors of efficiency. C. E. Chase, of Philadelphia, briefly outlined the principal elements of the new Delaware River bridge. Prof. D. S. Robbins, of Las Cruces, N. M., spoke on "New Scientific Knowledge of Interest to Engineers." Dr. Frederick H. Newell, of Washington, reviewed the history and progress of the association, while Morris L. Cooke, of Philadelphia, discussed the subject of "Giant Power." Visits to the Philadelphia subway construction work and other engineering and historical points of interest at Philadelphia, as well as trips to Atlantic City and to New York, including Coney Island, furnished entertainment and diversification.

President's Address—Dr. D. B. Steinman, retiring president, addressed the association on the subject, "Our Profession." His scholarly discussion of the subject dealt with the obligations to mankind and to the future which form the basis of engineering ideals. Developing this theme further, he indicated how the original purposes and the work of the association have been directed toward advancing these ideals and serving the profession and public.

[*Abstracts from the Address of Dr. Steinman will be published in an early issue.*—EDITOR.]

From Job and Office

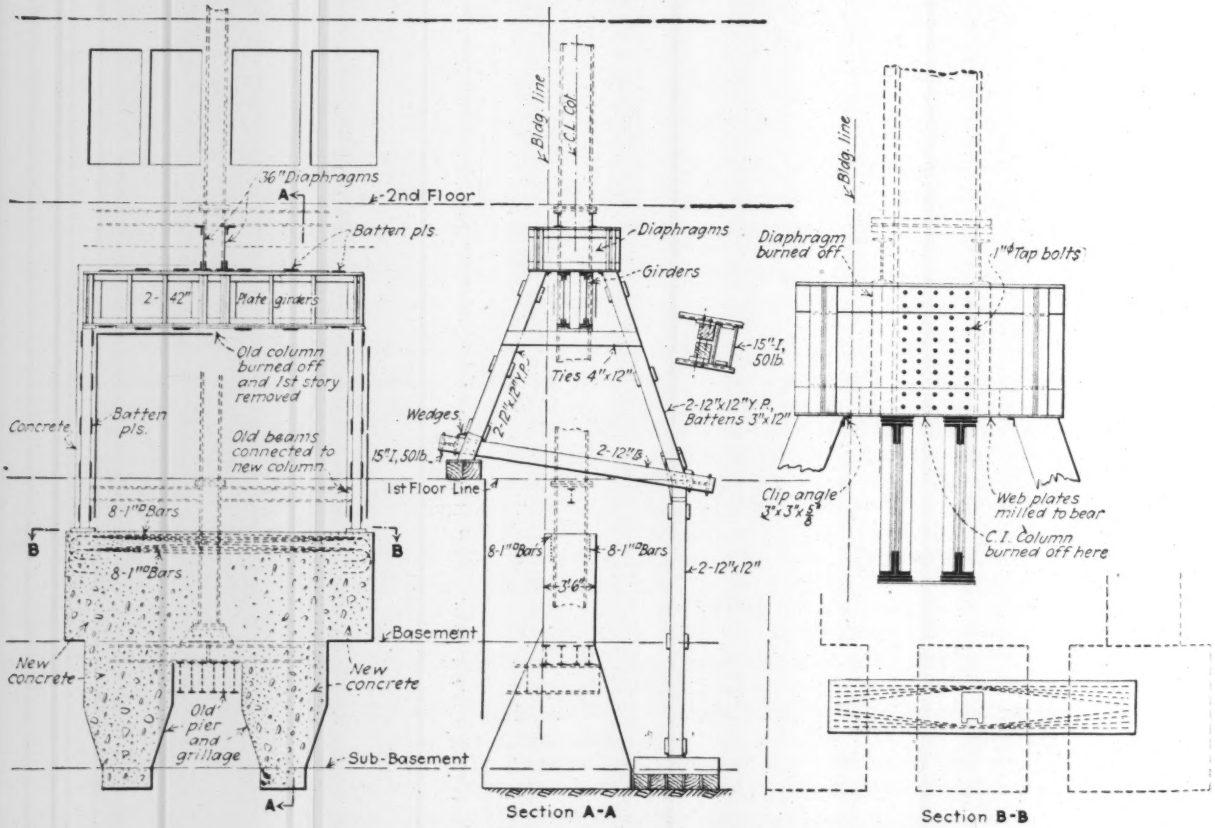
Hints That Cut Cost and Time For the Contractor and the Engineer

Remove Cast-Iron Column Carrying Ten Stories

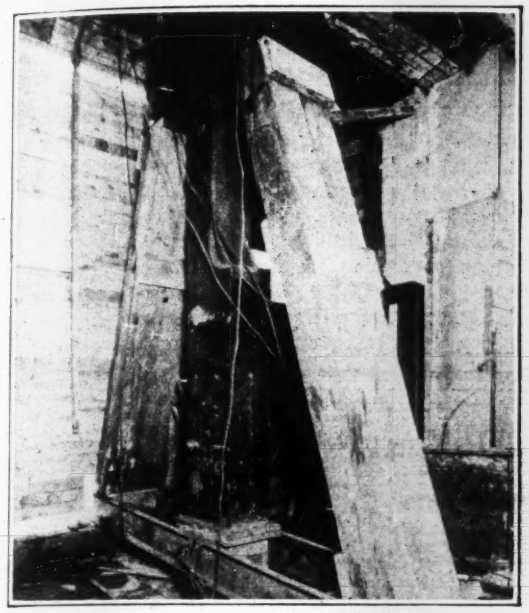
REMOVAL of the lower portion of a cast-iron column in an old ten-story building was recently carried out in Philadelphia by simple methods in an interesting way. The building, 1013 Chestnut St., has cast-iron columns supported on grillage beams in concrete foundations below basement level. To construct a new store front in the first story it became necessary to remove one of the columns. The work was accomplished by the use of a system of steel diaphragms and timber shores for the temporary support of the column at second-floor level while the lower portion of the column was removed and new steel girders and columns were installed to span the store-front opening. The work was so planned and executed that the steelwork of the second floor was not disturbed.

Two short 36-in. built girders or diaphragms were attached to the sides of the column at the bottom of the second-floor beams by 55 1-in. tap bolts in each side. These diaphragms projected forward and back of the column, and served as brackets against which the upper ends of inclined shores could be butted. The shores were 12 x 12-in. timbers tied together with two 12-in. channels. The inclined brace on the street side rested upon the foundation wall of the building, while the other one was framed to 12 x 12-in. timber posts resting upon timber sills on the ground. By wedging the channel tie the shores were lifted sufficiently to take the load of the column. After the shoring was in place, half of the cast-iron column was burned off and the inner one of two transverse girders under the diaphragms was erected, together with two columns supporting it upon a reinforced-concrete girder built on the old footing pier. The old column was then burned through and removed and the outside girder with its supporting columns was erected, completing the new steelwork. This steel frame was jacked up by jacking at the base of the columns, to take the load of the column resting on the girders and relieve the timber supports. The 2½-in. slabs under the new columns were grouted with alumina cement, and the jacks were held until the cement had set. Finally the ends of the diaphragms projecting on the street face of the building were burned off and the first-story section of the old column was completely removed.

The new girders are 17 ft. long, with webs 42 x ⅜ in. and flange angles 6 x 4 x ⅜ in. and two cover plates. They are supported at each end upon new 8-in. H-columns resting upon a new reinforced-concrete foundation girder, as shown by the drawing.



HOW AN UNDERPINNING PROBLEM WAS SOLVED IN PHILADELPHIA

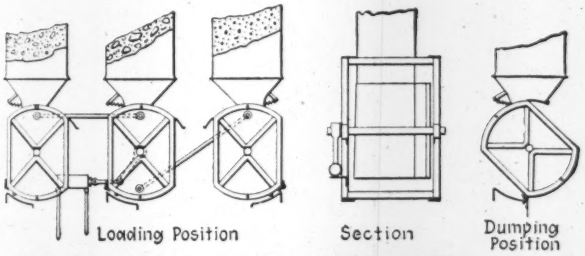


CAST-IRON COLUMN SHORED, AND ITS NEW STEEL SUPPORT

The building is owned by Mayer Lichtenstein and Morris Haber. J. E. Feelstein was architect on the work, Fred W. Abbott was engineer and S. Yellin & Son, Philadelphia, were contractors.

Device for Measuring Aggregates at the Concrete Mixer

A DEVICE for measuring three sizes of aggregate by volume simultaneously at the concrete mixer has been developed and used successfully for some time in connection with the lining of tunnels on the reconstruction of the Yosemite Valley R.R. in the Merced River Canyon, Calif., by A. J. Novelli, engineer for the contractor on this work.



ARRANGEMENT OF AGGREGATE MEASURING DEVICE

This device consists of a series of boxes, one for each size of aggregate, placed under the hoppers, these boxes being adjustable for any volume required. The boxes are connected to the piston of a compressed air cylinder and are operated by a lever on a valve, controlled by the mixer-man. They have openings in the top and bottom, the former being open and the latter closed while filling, and vice versa when dumping.

After being filled the boxes are dumped simultaneously directly into the mixer by turning, at the mixer-man's station, a lever which operates the air cylinder. The boxes are returned to the filling position by reversing the lever, the time required for the entire operation being about 6 seconds. The aggregate in the hoppers is regulated by a spring attachment which prevents clogging and enables the boxes to move freely.

The cost of the device is somewhat more than for other types of volume aggremeters which is, however, believed to be more than made up by the saving in labor cost and the securing of accurate measurement.

For the foregoing data *Engineering News-Record* is indebted to Jerome Newman, consulting engineer on the work.

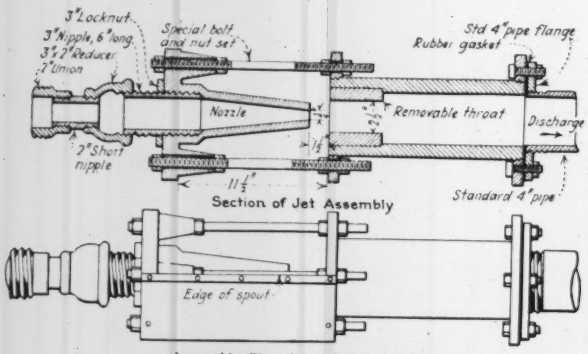
Reduction of Mud Balls in Rapid Sand Filters

By August V. Graf
Chief Chemical Engineer, St. Louis Water-Works

AT THE Chain of Rocks filter plant of the St. Louis water-works, the mud balls forming in the sand bed are disintegrated by jetting the sand from one end of the filter to the opposite end while wash-water is applied to the filter. This is accomplished by means of a hydraulic ejector. The pressure or nozzle end of the ejector is connected to a water plug with a 2½-in. water hose provided with standard pipe fittings. The discharge end of the ejector is fitted with standard pipe and fittings as required. The discharge pipe should be so assembled that it will act as a hanger for the ejector, thus enabling the latter to be held in the floating sand at any desired depth. At this plant the discharge pipe is carried horizontally from the ejector for a few feet, then with a 4-in. elbow and length of pipe the line is carried vertically, terminating in another 4-in. elbow and a long length of horizontal pipe extending toward the opposite end of the filter and resting on the concrete cross-beams. The vertical distance from the lower edge of the last length of the horizontal pipe to the edge of the spout on the ejector should be made such that, when the apparatus is hung on the cross-beams, the edge of the spout will be about 3 or 4 in. below the surface of the stationary sand. At the extreme end of the last length of horizontal pipe, the line is continued vertically downward for a short distance and there the discharge is reduced to 2½ in. with a 4x2½-in. reducer and a short 2½-in. nipple.

Under the discharge is placed a wooden box about 4 ft. high and 15 in. square, open at both ends and provided with three sloping screens, each 15x12 in. in plan. The screens are so arranged that one discharges onto another, while fastened to the top screen there is a small steel plate against which the discharge from the ejector impinges. This steel plate tends to further disintegrate the mud balls.

Underneath this box there should be suspended a ⅛-in. mesh wire basket 2½ ft. square by 6 in. deep, the bottom of which should be a few inches above the overflow edge of the wash-water troughs. This will retain



DETAILS OF HYDRAULIC EJECTOR

any small gravel that may come through the ejector. As fine gravel accumulates on this screen, it should be removed and scattered uniformly over the area of the filter while the wash-water is being applied. Without this screen fine gravel would tend to pile up underneath the box and cause an unevenness in the surface of the gravel bed.

When ready for jetting, the filter is first given a normal wash and then while the wash-water is still being applied, the apparatus is lowered into place. The rate of wash is then cut to about 5 gal. per sq.ft. per minute, which is continued for 15 min. after which the rate of wash is momentarily raised to 10 gal. in order to level the sand bed. At the Chain of Rocks plant this increase and decrease of wash-water is continued every 15 min. for 5 hr., after which the apparatus is moved to the next filter. The amount of wash-water used during the 5-hr. period amounts to about 1,430 gal. per sq.ft. of filter area. The ejector may be moved about by four men.

By thus jetting the sand in the filters once every six months, the mud balls are very considerably reduced and part of the coating of the sand grains due to softening of the water is removed.

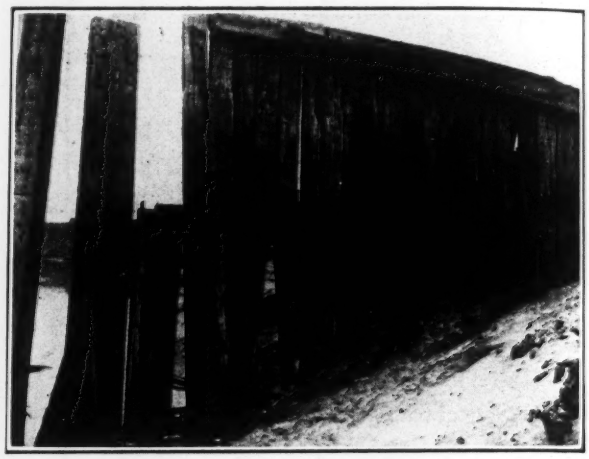
How Cutoff Piles Looked Uncovered

IN addition to puddle core-walls, earth dams of moderate height are frequently supplied with sheetpiles to intercept any water that may course through a pervious stratum below the foundation layers. What one section of Wakefield sheetpiling cutoffs looked like was disclosed recently in the Southwest when the embankment was overtopped and the material washed away from 230 ft. of the sheeting, some of it showing 20 ft. of the piles. The piles were made up of 3x12-in. planks and were spliced to make up a 50-ft. length. They were driven through sand to shale, probably with a steam

From Job and Office

Hints that Cut Cost and Time

hammer without jets. That the work was absolutely a waste of time and money so far as preventing the passage of water needs no words to explain the accompanying illustration. "Overdriven, buckled, telescoped, broken, broomed, out of line the cutoff piles would hardly stop a dog, let alone water," said the engineer who handed the *Engineering News-Record* correspondent the picture with the injunction to preserve his incognito. In consequence it will be unavailing to write to the editor for "more details" but the designer



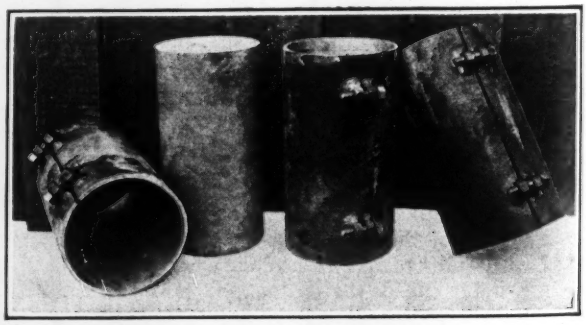
WAKEFIELD SHEETPILES UNCOVERED BY OVERTOPPED RESERVOIR

Splicing was one point of weakness but piles did not follow, were over-driven, broken, broomed and split. Concrete header on top broken up by the weaving of piles.

should think twice and learn local conditions before building up a false sense of security with sheetpiling of this length which may be driven under the same conditions as those in the illustration.

Cylinders for Concrete Samples Made Up on the Job

IN equipping the field laboratory for testing cement on the Balch project now being constructed by the San Joaquin Light & Power Corporation in California, a supply of cylindrical forms was required, in which to



FORMS FOR CONCRETE COMPRESSION SAMPLE

prepare 6 x 12-in. concrete cylinders as samples for compression tests. It was decided to make these cylinders in the machine shop on the job, and this was

From Job and Office

For Contractor and Engineer

done at a cost of $4 per cylinder as compared to a price of about $20 per cylinder that would have been paid for factory-made laboratory equipment.

Standard 6-in. pipe cut to lengths of exactly 12 in. was used for these cylinders. The first operation was to machine a smooth interior finish, after which a ¼-in. slot was cut along one side. Two pairs of lugs were then welded close to this slot and drilled for the ½-in. bolts used to draw the edges of the slot together. Each cylinder was calipered to give the exact cross-sectional area with the slot closed. The spring in the steel pipe, as it automatically opens the slot when the bolts are loosened, nicely separates the form from the concrete sample when the cylinder is removed.

Weighted Canvas Controls Quicksand While Concrete Is Poured

By R. J. Reigeluth

C. W. Blakeslee & Sons, New Haven, Conn.

BUILDING a tunnel on quicksand within 10 ft. of a power house wall may involve unique construction methods, for instance, keeping the trench filled with water while excavating and covering the quicksand with canvas, to form a base for the concrete mat.

In order to double the capacity of the Steel Point Power Plant of the United Illuminating Co., Bridgeport, Conn., a new intake tunnel was required. Property limitations along the harbor made it necessary to run this tunnel just outside of the power house within which large generators and turbines operate in exact alignment. During excavation quicksand was encountered at 18 ft. below high water level. Samples, on test, indicated a state of suspension which is very difficult to control. Working in this material required caution not to undermine the power house foundations.

The tunnel, 339 ft. long, was constructed in three parts. A cofferdam 15 ft. wide was built of 40-ft. steel sheeting driven 15 ft. below grade. The excavation inside the dam was carried down to elevation +5 by means of a clamshell bucket. At that point the bottom began to "boil." The excavated area was immediately flooded by reversing the pumps and a full head of water maintained at all tides to keep the material in equilibrium. Excavation was then continued to —5 by operating the clamshell under water.

When the excavation had attained sufficient depth, a diver leveled the bottom with a water jet. He then placed a 25-oz. duck covering over the entire bottom of one section and put 500-lb. precast concrete blocks on the canvas at regular intervals to hold it in place. A concrete mat 5 ft. thick was then deposited. After a period of twenty-one days the water was pumped out and the bottom was found to hold perfectly.

The canvas insured a full depth of concrete throughout the entire slab. Ordinarily depositing the concrete would have pushed a wave of sand ahead of it and made thin spots in the slab. It also prevented the wet concrete from mixing with the sand when it was deposited which would have decreased the strength. In addition, it provided an almost impervious membrane between the quicksand bottom and the concrete. This protected from blow-outs due to unbalanced pressure.

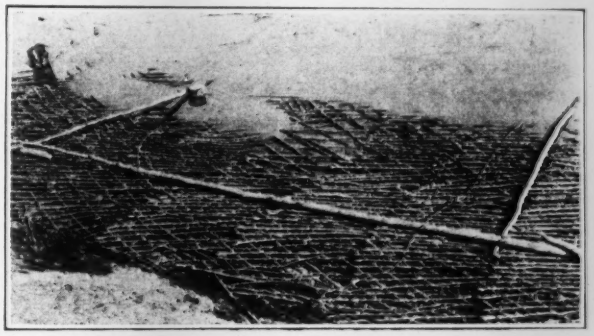
The contractors were C. W. Blakeslee & Sons of New Haven, Conn., the superintendent in charge being William Powell. Westcott & Mapes, Inc., of New Haven were the designing engineers, while E. J. Beugler of Cheshire, Conn., was consulting engineer.

Advantages Shown for Wire-Willow Mattress Over Basket-Weave Type

By F. Y. Parker

Assistant Engineer, War Department, Engineer Office, Kansas City, Mo.

THE increasing scarcity of weaving brush on the Missouri River between Kansas City and St. Louis has caused several types of experimental mattress to be tested. The type here described was more rapidly constructed and required not only less ballast but approximately one-third less willows than the standard basket weave type. Moreover bar-growth willows one season old were effectively used for weaving. Finally, the cost was about $2 less per 100 sq.ft. than that for the standard mattress.



MATTRESS OF WILLOWS WOVEN ON A NO. 9 WIRE MESH

The foundation or web of this mattress is No. 9 galvanized wire mesh 6 in. square and 54 in. wide. Through alternate top and bottom meshes brush was thrust on the forward weave and duplicated on the reverse weave through the open meshes; stiffening poles and cables were placed as usual. In weaving, the brush tops were downstream and each section of wire mesh was laid over the previous sections until the brush tops and wire sections were clipped together at the edges.

Two recent uses of this type mattress follow. In one instance an ordinary basket weave mattress had been constructed on a sand bar as a foot mattress to a private revetment. Subsequent high water deposited about a foot of silt over the top but a later shift of the channel eroded the bar, undermining the outer third of the mattress causing it to drop, and threatened rapid destruction of the revetment. The method of repair was carefully to wash the top silt from the mattress for 20 to 30 ft. shoreward, to cover the break with wire-willow mattress and then to reballast.

The other case was a foundation mattress for a 1,200-ft. dike. The mattress was constructed across a dry sand bar, the driving of the piling on the dike alignment being accomplished during the succeeding high water. The middle fifth of the 75-ft. mattress on the dike alignment was constructed wholly of brush, on each side of which was a strip of wire-willow mattress 30 ft. wide. The use of wire-willow mattress saved $1,200.

Letters to the Editor

This department aims to be a forum for the discussion of the views of engineers and contractors. The range of interest should be as wide as possible. Contributors are, therefore, asked to make their letters short.

Early Days of Separate Sludge Digestion

Sir—I was interested in the editorial in your issue of May 20, p. 797, entitled "Reversion to Type," and its discussion of the Cameron septic tank and the two-story tanks of the Lawrence Experiment Station, of Travis and of Imhoff. To recall what is now more or less ancient history but perhaps interesting to the present generation because of its age, allow me to present some of the old data.

In an article read before the American Public Health Association at Minneapolis, Oct. 31, 1899, I stated: "I believe a modification of the septic tank could be constructed intended to treat only the matters in suspension in the sewage and settled out daily while passing through ordinary settling tanks, flushing this accumulated sludge when necessary into a septic tank." And in the report of the Lawrence Experiment Station for 1899, I said: "The observation that the stronger the sewage entering a septic tank the greater the percentage of organic matter suggests the idea that where exceedingly large volumes of sewage are to be purified . . . the sewage could be passed through ordinary settling tanks so constructed that the sludge settling to the bottom of these tanks could be flushed into a septic tank and this sludge then be treated by septic tank action instead of attempting to treat the whole volume of sewage."

Such a tank was put in operation Nov. 15, 1899, and it was of the true two-story type. The Travis and Imhoff tanks were both based upon the operation and results of this tank, and this fact has been acknowledged by both of them: By Travis in a pamphlet published many years ago, and by Imhoff in a letter to the writer dated Sept. 9, 1912, and in a paper read by him before the International Congress of Demography and Hygiene held at Washington that year. The pertinent portion of Dr. Imhoff's letter is:

"I have to read a paper in Washington the 25th about sludge disposal. There is one very important thing I wish to ask you. My opinion about separate sludge digestion is (so far as I could ascertain from printed publications) that such sludge treatment first was tried by you, as published in your report of 1899 and 1900. Is your opinion still the same or do you know any other publication by engineers or chemists who tried it [separate sludge digestion] before you? Have you any other publications written by yourself in which is said anything about that question before 1903 when Travis wrote [on the same subject]?"

About 1912 some controversy arose between Imhoff and Travis in regard to their respective tanks and patents and the case was heard before the Imperial Patent Court of Germany. (See Report, Lawrence Experiment Station, 1913, pp. 272 and 273.) Portions of Claims 1 and 2 of the Travis patent follow:

"Claim 1—Process for the biological treatment of sewage by means of separate treatment of the solid and liquid constituents characterized by the following: The sewage passing through one or more closed or open settling spaces at such a speed as to permit the lighter particles to come to the surface and the heavier to sink to the bottom and to pass through openings in it with a portion of the liquid into a liquefying space situated below the settling spaces, in which they are partly decomposed and liquefied through biological action, whence the liquid passes out of the liquefying space over weirs to one or more filters through which it passes upward in known manner, etc.

"Claim 2—Apparatus for carrying out Claim 1 characterized as follows: Combining the settling chamber (a) and the liquefying chamber (b) in a closed tank in such a manner that the settling space arranged above the liquefying space, etc."

The judgment rendered, in 1912, is in part: "It need not be settled here whether these differences are material or not, as it is clear that compared with the purification plant described in the report of the experimental station at Lawrence of the State Board of Health of Massachusetts, Boston, 1899 (31st annual report, p. 422), the protected process contains nothing new, which is contended by the claimant. The purification process there employed according to this report is exactly the same as that of the patent attacked. The sewage was passed through ordinary settling tanks and the sludge collected at its bottom was at the same time flushed into a septic tank, where alone it was subject to septicization. The defendants contend, however, from the fact that only ordinary settling spaces are mentioned in the Boston report, and that nothing is said about the continuous removal of the sludge out of the settling spaces, that it must be concluded that the process described in the report was only worked intermittently and that a continuous flow through the plant as in the case of the patent attacked, had not taken place. These contentions are, however, not justified, etc."

Certain claims of the Emscher Drainage Board acting for Imhoff were disallowed and the court stated in its final conclusion that "the division of the official costs is justified by the consideration that each party has partly lost its case."

In this German case, testimony was given by the writer and a drawing of the Lawrence tank of 1899 also presented.

It was of course true as Travis claimed that sewage was not passing continuously through the upper section of the Lawrence tank, that is, was not flowing twenty-four hours.

As I stated in the beginning of this letter, this is at the present time more or less ancient history but it is perhaps well once in a while to make clear how much the various modern processes of sewage purification owe to the Lawrence Experiment Station which for 38 years has been giving to the world information concerning this and other sanitary subjects.

H. W. CLARK,
Chief Chemist, Massachusetts Department of Public Health and Director of the Lawrence Experiment Station.

Boston, Mass.,
June 8, 1926.

Do Standard Specifications for Quality Improve Practice?

Sir—I was very much interested in your editorial comment (*Engineering News-Record* of June 3, p. 885) on Dr. Mathews' criticism of standardization of specifications. I have for a number of years been associated with committees engaged in the preparation or revision of standard specifications. I have served as a member of one sectional committee of the American Engineering Standards Committee that has just completed its work after about 4½ years' discussion, most of which has been by correspondence, and am still actively serving on another similar A.E.S.C. committee that has been functioning since 1923, most of whose work has been accomplished by round-table discussion, but whose task is still uncompleted. The general question that you have raised in your editorial, namely, "Are standard quality specifications worth while when measured in terms of the ultimate result?" is one to which I have given considerable thought during the course of my activities along the above lines, and there is much that can be said pro and con on the subject.

There is, however, one general thought that has always recurred to me in my own analysis of the matter, which is that structures must be designed according to some specification and it is essential that the materials of which they are to be constructed meet the requirements of such specification. If there are a number of manufacturers whose products meet these requirements, all of which are being manufactured under different specifications, it is logical to conclude that there must be one best specification for the purpose, or one which will permit manufacturing methods involving the greatest economies and which consequently, barring the question of possible price control, should result in the lowest possible selling price. The A.E.S.C., in the consideration it is now giving the matter of "Guaranteed Quality under Specifications" has expressed the thought in these words: "Putting manufacture more on the basis of generally known characteristics interpreted in the terms of specifications and grades might, on account of the extension of mass production, permit the manufacture of a large quantity of staple goods that could be sold on a wide market because of their known quality and presumably high value in relation to price. Moreover, it would seem that the manufacturer would be placed in a better position with respect to his purchases of the raw materials and constituent parts entering into his products."

The question, therefore, resolves itself into one of economics. If the preceding analysis is sound then the logical conclusion would seem to be that standard quality specifications, acceptable to the majority interests, are justified and desirable. This would enable a manufacturer to produce in advance of actual requirements, during otherwise slack periods, many materials for which he was reasonably assured of a future demand, and thus operate his plant in the most efficient and economical manner; the economies could then be reflected in lower prices to the consumer, at the same time assuring him better deliveries, and would assure the designer of structures a reasonable uniformity of material regardless of the source of supply.

I believe that the question of standardization must be looked at from the broader point of view before judgment is passed. To me, it has always seemed to be a matter of trying to secure the maximum benefit to the greatest number of interests concerned. It has never been my understanding that it was ever the thought of those advocating standardization of specifications that, once a certain specification had been standardized, such for example as has been done in the case of portland cement, all further attempt to improve the physical or other characteristics of that product should cease. The compilation and general acceptance of such a specification merely mean that a measuring stick has been set up by which that particular material is to be gaged and tested. Such a specification is not necessarily permanent in character, but simply constitutes a goal which all manufacturers of that product must reach if they would remain in business and beyond which all should strive to pass as far as they can. Standards are always subject to revision as expediency requires, but this is no reason why the industry should not have the advantages of them in the meantime. Modern business is founded upon the principle of "the survival of the fittest" and the manufacturer or business man who is content to sit quietly back and be satisfied with past performances is soon scheduled to pass out of the picture in these days of keen business competition, or be absorbed by his more progressive competitors.

Quality specifications, if their purpose is not properly understood and they are not used accordingly, would certainly tend, as you stated, to straitjacket progress. On the other hand, quality specifications, especially when prepared under the supervision and most careful scrutiny of such agencies as the A.E.S.C. sectional committees, certainly meet the immediate requirements of the maximum number concerned and are acceptable to the remainder. When the necessity arises, there is a procedure available for their revision but they are protected against frequent changes merely to suit the ideas of a few individuals, and it is in this way that manufacturing is stabilized to the fullest extent.

The advantage of nationally recognized standards in connection with the marketing of goods for foreign trade is of considerable importance, and would undoubtedly tend to reduce trade disputes and litigation arising from misunderstandings which are due largely to the differences in trade practices and industrial conditions in the two countries involved.

Rather than "exalting and hall-marking" the mediocre, quality specifications will generally be found to have the effect of barring from the market goods below a certain minimum standard, unless such goods are sold at prices duly reflecting their want of the standard quality.

Newark, N. J. HOWARD H. GEORGE,
June 10. Assistant to Chief Engineer, Public Service Production Co.

[If in this last paragraph, our correspondent means to say that standard specifications tend to eliminate goods *above as well as below* the set standard, then we are not far from being in hearty agreement with him. But perhaps this very point is at issue; if so, we must leave its discussion to a later occasion.—EDITOR.]

Trusses in Commodore Perry Hotel

Sir—In your June 10 issue, p. 956, there appears a letter criticising the use of steel trusses in hotel design to carry upper stories above large public rooms, and referring especially to the Commodore Perry Hotel, being erected in this city. As I am responsible for the structural design of the Commodore Perry, I am writing to give your correspondent and readers such data as are necessary to consider in forming an opinion regarding the propriety of the design.

Trusses are used, as stated by your correspondent, to carry the upper stories over public rooms. These trusses will have all members and connections solidly enclosed in concrete. The trusses are not walled in, as your correspondent assumes, but are accessible from a low story serving as a pipe gallery.

The use of heavy girders and trusses to transfer the loads from upper-story columns beyond the limits of large rooms in the lower stories is frequently required in modern architectural practice. When such construction is resorted to the most careful attention should be given to fireproofing methods. GEORGE V. RHINES,

Toledo, Ohio, Mills, Rhines, Bellman & Nordhoff,
June 16, 1926. Architects.

Schenectady Sewage Chlorination Studies

Sir — Mr. Cohn's Schenectady experiments on sewage chlorination, reported in your issue of June 10, p. 943, indicate that the influent to trickling filters can be relatively heavily chlorinated without materially impairing the efficiency of the filters. Experience elsewhere has resulted in impaired filter efficiency. It is probable that immature or overloaded filters would have their efficiency diminished. It is also improbable that the filters at Schenectady would have continued to function efficiently had the heavy chlorination been maintained. The results do indicate that by intermittent heavy doses of chlorine or hypochlorite the moth flies may be kept from becoming too prevalent and that continuous application of small quantities of chlorine will minimize odors.

The cost of the chlorination treatment has not been referred to by Mr. Cohn. If the minimum quantity used in the experiments, 4 p.p.m., were to be applied continuously, the additional cost of treatment would be about $2.50 per m.g., assuming chlorine at 10c. per lb. If chlorination permits higher rates of treatment this increased cost would be offset to the extent that capital charges were reduced. As regards intermittent application of hypochlorite in single large doses during the fly season, the purchase of the chemical would not materially increase the cost of treatment.

On the whole the experiments have been distinctly encouraging and it is to be hoped that research will be continued, not only at Schenectady but elsewhere, along the lines begun by Mr. Cohn. H. P. EDDY,

Boston, Mass., Consulting Engineer.
June 12, 1926.

Sir—Mr. Cohn's tests emphasize one important property of the trickling filter, namely its ruggedness and ability to withstand inhibitory influences and temporary overloads. In our studies on the treatment of industrial wastes at Chicago we have found the trickling filter more adaptable to variations in strength and composition of such wastes than the activated-sludge process.

The continuous use of liquid chlorine at the rates found necessary at Schenectady would be quite extensive, costing probably from $3 to $4 per m.g. The Schenectady sewage is comparatively weak, and the tank effluent used in these tests was quite dilute, with an oxygen demand of only 64 p.p.m. and 40 p.p.m. suspended solids. With even a moderately strong, stale sewage the cost of continuous application of chlorine would be prohibitive, unless a very acute emergency might exist with regard to odors and flies. The most practical solution of the fly problem seems to be the application of chlorine as calcium hypochlorite. The cost of this treatment should be far less than the cost of continuous application of liquid chlorine. While hypo would not eliminate odors, it would probably lessen them by reducing the tendency toward pooling and by removing excessive growths of surface films.

As to the effect of nitrification, I do not believe the tests have demonstrated conclusively that the large amounts of chlorine applied toward the end of the tests, in October, would not be harmful to the normal working of the beds. In order to apply more than approximately 10 p.p.m. of chlorine it was necessary to divert a large proportion of the flow from dosing tank *B* to dosing tank *A*. The rate on filter *A* was thus increased to about 5 m.g.d. per acre while the rate on the chlorinated filter *B* was reduced to less than 1 m.g.d. per acre. This light loading helped filter *B* to withstand the excessive amounts of chlorine. Even with the increased loading filter *A* produced more nitrate than filter *B* from Oct. 8 to 16. The results indicate a very

light loading on the Schenectady filters, with nitrification at its maximum at the time of the tests. During August and September the tests demonstrated that the filters could stand up to 10 p.p.m. chlorine with an almost sterile influent. The pronounced unloading of filter *B* may have been without significance during the period of the tests, but it seems likely that nitrification and stabilization could not be continued long with a sterile influent and a filmless, partially-sterilized filter bed.

The absorption of chlorine was quite variable. With 6 p.p.m. chlorine applied, there was practically none at the filter nozzles; with 10 p.p.m., about 2 p.p.m. at the nozzles and traces in the effluent; with 25 to 30 p.p.m. applied, less than 5 p.p.m. at the nozzles and 0.2 p.p.m. or less in the effluent. It would be interesting to know whether the analyses indicate an appreciable oxidation of the nitrogen or carbonaceous compounds in the Imhoff effluent by these large amounts of chlorine. The absorption of 20 to 25 p.p.m. ought to show a considerable oxidation.

F. W. MOHLMAN,
Chief Chemist, Sanitary District of Chicago.

Chicago, Ill.,
June 14, 1926.

Sir—The fact that Mr. Cohn finds but a slight decrease in efficiency with applications of chlorine is encouraging but constitutes only a step in the direction of increasing efficiency and consequent elimination of nuisances. Psychoda fly control was the initial object of the study, and was apparently attained, although "visual observation" is often a poor, unconvincing measuring stick.

The statement is made that the nitrifying bacteria in the beds were affected by the increase in chlorine strength and it is assumed that they soon became accustomed to the new conditions. This would mean that these organisms were readily able to adjust their physiological activities to poisons. It is well known that poisons, in suitable concentrations, may be stimulating as well as toxic to bacteria, but this does not mean that the bacteria are accustomed to the poisons. The general theory is that disinfection is chemical in nature, gradual and not an instantaneous process, probably highly complex in regard to reaction between cell and disinfectant. It was pointed out by Ricket in 1892 that poisonous salts, added to bacterial suspensions, were at different concentrations (a) indifferent, (b) stimulating, (c) inhibitive, (d) toxic (Comt. Rend., vol. 114, p. 1492; also see Falk & Winslow, Jour. Bact., Jan., 1926.). It may be, therefore, that the bacteria did not become accustomed but were reacting towards the chlorine in one or more of the four ways indicated. Evidence for this reasoning may be found in the nitrates curves, which show reasonable similarity but fairly persistent lower values for the chlorinated effluent, except, perhaps, with the higher applications. It is possible that the chlorine was active in the following ways: indifferent, stimulating, somewhat inhibitive, but practically never toxic to the organisms if they were affected at all. More likely, with lower chlorine application the chlorine was absorbed before it reached the nitrifying organisms, because we have shown that nitrification takes place mostly in the bottom of the beds (N. J. Ag. Exp. Sta. Bull. 390). The curve for residual chlorine in Mr. Cohn's paper indicates that no residual chlorine was present until rather high quantities were added. It seems therefore than the chlorine was absorbed by the colloidal material present in the influent and by the organic material present in the top layers of the beds. Since the flies breed only in the few top inches of the bed, the film nearest the top, being most affected, is removed and the larvae washed out.

Another question is whether other than nitrifying bacteria were not affected. In this respect it is extremely interesting to note that the amount of colloidal material increased and stability decreased with the increase in chlorine. If, in addition, the absence of odor is kept in mind it seems clear that chlorination inhibited the activities of or was actively toxic to the putrifying organism carried on the beds with the sewage and those present in the top layers. Our laboratory studies show that colloidal material is continuously produced and further broken down by bacterial action. But different organisms under different conditions will accomplish the work. If putrefactive organisms perform the initial work and they are inhibited or killed off, the colloidal material, which adsorbs or absorbs the chlorine, remains unattacked and passes out. At the same time the biochemical oxygen demand should be higher in the treated material and no direct relation should exist between stability and B.O.D., for portions of the colloidal material are coming through in different stages of decomposition. Stability as such, however, should be lower in treated samples. At the same time, when the partly attacked material is completely checked in its decomposition by the chlorine, B.O.D. values should be higher. This was actually the case near the end of the experiment.

Mr. Cohn's large-scale experiments are a step in the right direction to increase the efficiency of the beds. The aim is to decrease protozoa and fungi to an efficient minimum and increase the bacterial population to an efficient maximum. This apparently can be done. Numerous laboratory experiments show that protozoa and fungi can be decreased, at the same time increasing or decreasing the numbers of bacteria at will, with different concentrations of poisonous substances. The following is cited from a series of experiments on selective killing in tank liquid:

Material	P.P.M.	Bacteria Million per C.C.	Protozoa per C.C.
$CuSO_4$	0	34	11,300
$CuSO_4$	1	67	7,800
$CuSO_4$	2	68	5,000
$CuSO_4$	10	140	5,000
$HgCl_2$	0	32	11,200
$HgCl_2$	1	97	3,800
$HgCl_2$	2	78	5,500
$HgCl_2$	10	55	2,200

The author has not considered the effect of temperature on the rapidity of the action of chlorine. It is possible that more chlorine should be added in the early and late parts of the season to obtain results than during midsummer; also the results obtained during the beginning of September might not be comparable with the results from middle October.

WILLIAM RUDOLFS,
Chief, Sewage Investigations Laboratory.

New Brunswick, N. J.,
June 12, 1926.

Sir—The paramount objection raised to chlorination of tank effluent prior to filtration, as practised at Schenectady, seems to be the great cost of the treatment. It should be borne in mind that the study at excessive chlorination rates was made solely to ascertain the quantity of gas required to destroy the nitrification efficiency of the units. It is evident to the writer that change of rate of filtration, as carried out during the latter portion of the study, has a distinct effect on nitrification, but the fact still remains that the treated beds withstood the short test with remarkable fortitude.

Having determined last year that ordinary rates of chlorination had no apparent deleterious effect on the filters, plans are now being made to chlorinate this summer at a rate of about 4 p.p.m. in order to ascertain the benefit of such treatment on psychoda, odors and bed surface and nozzle conditions. Such a treatment would cost about $2.25 p.m.g. of sewage and would not impose an excessive burden upon a plant that was in need of such control work.

A one-month run just completed indicates rather definitely that chlorination of raw sewage can be carried out more economically than chlorination of the effluent from the Schenectady tanks. Application of liquid chlorine in dosages of roughly 5 p.p.m. gives promise of producing a definite chlorine residual at the effluent of the tanks; that is in excess of the residual chlorine obtained in the tank effluent after direct chlorination in the dosing tank, at similar rates of application. If this holds true, the chlorination of raw sewage can be carried out cheaper and will have the advantage of reducing septic tendencies in the Imhoff tanks themselves and will overcome the production of odors at the dosing tanks that results from the agitation of the liquid on going over the weirs and steps of the chamber. It is tentatively planned to chlorinate all of the raw sewage entering the Schenectady tanks at a rate that will give a residual chlorine at the effluent weirs and to ascertain the effect on both the tanks and the filters. It may be found that such work can be carried out much cheaper than last year's study would indicate, and may thus overcome the objections of lack of economy that are raised.

MORRIS M. COHN.

Schenectady, N. Y.,
June 19, 1926.

News of the Week

CURRENT EVENTS IN THE CIVIL ENGINEERING AND CONTRACTING FIELDS

Engineering Educators Meet at Iowa University

Educational Research Results—Board of Investigation and Co-ordination Presents Valuable Report

Convention Report by Donald D. Curtis, Department of Mechanics and Hydraulics, State University of Iowa

The Society for the Promotion of Engineering Education held its thirty-fourth annual convention meeting at the State University of Iowa, Iowa City, June 16 to 18. The attendance was 312, with more than eighty institutions, thirty-eight states, and Canada and Brazil represented. The sudden and untimely death of Dean Wm. G. Raymond of the State University of Iowa on June 17 cast a heavy cloud over the atmosphere of the gathering; all following social features were abandoned, save some functions for the ladies and the annual banquet.

The meetings were unusually fruitful and stimulating. The character of the papers was such as to lead to spirited and thought-provoking discussion, in most cases limited only by the time available. It was a feature of the early sessions that the president called the papers strictly to the time limit, and stopped discussion immediately on expiration of the scheduled time.

As always, the joint meeting of Deans and Administrative Officers and Teachers of English, although a preliminary meeting, was well attended. The group's discussion was summarized by Professor Nelson as pointing to two objectives, training the engineer to speak and write clearly and forcefully, and fostering regard for literature. For the first of these, the consensus of opinion was that in addition to the formal courses, as ordinarily given, the full co-operation of all departments in demanding correctness in expression, oral and written, was essential to successful mastery of English by the student. For the second, the recommendation was to permit election of literature courses.

Educational Research Results

Almost exclusively the set program was devoted to results and interpretation of the findings of the research started some years ago to co-ordinate engineering colleges. The amount of energy expended and the body of fact and finding, theory and synthesis, presented was tremendous. Dean Marston, reporting as chairman of the A.S.C.E. committee on Engineering Education, gave composite results of questionnaires sent to some 1,500 members of A.S.C.E., A.S.M.E., and A.I.E.E. From these, it was apparent that there was a general appeal for broadening of college courses and a tendency to hold to the engineering course but to have it include some business training. Some less than half the replies indicated a preference for functional division in courses as opposed to technical division, that is, sales, design, and such as opposed to civil, mechanical, and such.

That guidance of high school students in choosing engineering as a career should be furnished by conferences of high school teachers and teachers of engineering, addresses on engineering to high schools, distribution of especially prepared literature to high schools, and dissemination of information by various means, such as radio and extension, was the contention of a portion of a paper on engineering students and graduates. It was pointed out that less than half the students entering upon technical courses had any conception of their chosen field.

The matter of elimination of engineering students has attracted a good deal of attention as evidenced by the repeated queries as to how to remedy the situation in which the eliminations are so numerous as at present, with the too-frequent accompanying personal injury to students. Dean Seashore, State University of Iowa, offered the preliminary placement examinations, which are yearly being improved, as the means by which the student may be warned in advance of entering a course for which he is unfitted. By this method, the matter is handled in a kindly way, the student being shown by

(*Concluded on p.* 1040)

Engineering Fifty Years Ago

From *Engineering News*, June, 1876

Notes

THE Erie road has completed the laying of a third rail between Buffalo and Elmira.

* * *

The Canadian Government is soliciting bids for the construction of sections of the Pacific Railway between Lake Superior and the Pacific Ocean, contractors to receive lands or proceeds of lands at the rate of 20,000 acres, and cash at the rate of $10,000 per mile, together with interest at the rate of 4 per cent per annum for twenty-five years from the completion of the work, or any further sum which may be stipulated in contract.

* * *

The Hudson River Tunnel Company, which has been delayed more than a year by injunctions, has again resumed operations at the shaft in Jersey City.

Much New Construction for Federal Reclamation

$7,431,000 Appropriated Includes Some New Projects in Oregon, Montana and Utah

From the text of the Reclamation Appropriation Bill, just made public, it appears that large appropriations were made for the construction of new projects. The total carried by the bill is $7,431,000 from the reclamation fund, and the sums of $35,000 and $15,000 respectively for contributing to Yuma levee maintenance and for investigations of arid, semi-arid, swamp, and cutover timberland in any of the states with respect to development. Separate bills further make appropriations of $25,000 to continue co-operative study of irrigation along the Columbia River.

New Projects

Appropriations for new projects contained in the main appropriation bill include the Owyhee, Vale, and Baker projects in Oregon, an extension of the Sun River project in Montana, and the Echo reservoir and associated work of the Salt Lake Basin project in Utah. The appropriation for Owyhee is the balance of $315,000 appropriated in 1924 and reappropriated a year later; for Vale, the unexpended balance of $500,000 appropriated a year ago, with authority to purchase an interest in the existing Warm Springs storage reservoir and for the construction of drainage works for the Warm Springs and Vale projects. For Baker, the unexpended balance of the 1925 appropriation is appropriated; for Echo reservoir, the unexpended balance of the 1925 appropriation, and for Spanish Springs division of Newlands project, the unexpended balance of $500,000 appropriated in 1925. A similar appropriation is made for the completion of the works on the Kittitas Division of the Yakima project.

Repayment Provisions

An important proviso made in respect to the new projects is that no money shall be expended until satisfactory contracts have been made with irrigation districts for repayment of the cost of the works; that all landholdings over 160 irrigable acres shall have their sale prices fixed by the Secretary of the Interior and shall not receive water if not sold at such price unless half the construction charges against such land have been paid; that operation and maintenance charges shall be paid in advance each year, but that the first year's operation charges after public notice shall be paid as part of the construction cost; that the state authorities may co-operate with the United States in promoting the settlement of the projects, and in securing and selecting settlers. Generally, the significant change over prior laws is the allowing of repay-

ment of construction cost in 40 years instead of in 20 years as heretofore, this cost to bear no interest.

Of the old projects, partial abandonment of some divisions is provided for: On the Uncompahgre project, Colo., the Secretary is authorized to investigate the feasibility of discontinuing operation of any parts of the project and removing the water users thereon to other lands. A similar provision is made for the Frannie division of the Shoshone project, Wyo., with the further provision that after Dec. 31, 1926, no government money shall be expended for operation or maintenance of this division. No money is appropriated for the King Hill project, but operation or construction is authorized at the expense of the district, for sums to be contributed in advance.

Passenger Trains in Rear End Collision Near Pittsburgh

Shortly after midnight on the morning of June 17 the Cincinnati Limited of the Pennsylvania Railroad bound for New York, ran into the rear end of the Pittsburgh - Washington express near Gray station on the Pennsylvania Railroad 3 miles east of Blairsville, Pa. The Pittsburgh-Washington train had stopped to repair an air hose and was just about to proceed when the accident happened. The three rear sleepers were telescoped and the end of the club car badly smashed, resulting in the death of sixteen persons.

Very meager reports as to the cause of the accident are available at this time, but from statements of the crew it appears that the Cincinnati Limited ran by the fixed signals set against it and warning signals put out by the flagman of the standing train. As the engineer and fireman of the leading locomotive and the engineer of the second locomotive were killed, it is not known how they came to run by the signals set against them, or failed to observe the flare and torpedoes which the rear trainman of the standing train states that he placed 700 ft. back of his train.

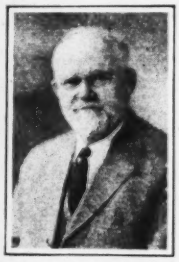
Decision on New Highway Into San Francisco Announced

The California Highway Commission on June 8 authorized advertisement for bids on the proposed $280,000 underpass at South San Francisco that will provide a connection with existing roads for a new highway route down the peninsula. The new highway has been partially completed under the direction of the Highway Commission with funds provided by the City of San Francisco. The underpass was decribed in *Engineering News-Record*, Nov. 12, 1925, p. 815.

The underpass is designed with side walls that will ultimately support a total of 16 railroad tracks. For the present decks are to be placed for a total of only 7 tracks, the remainder to be added as needed. The cost of the structure is to be apportioned as follows: Southern Pacific R.R., 23.7 per cent; California Highway Commission, 71.2 per cent; and belt Line Ry., 5.1 per cent.

Dean Raymond Dies at Iowa University

William Galt Raymond, dean of the College of Applied Science at the State University of Iowa, Iowa City, died at the University hospital Thursday morning, June 17.



Dean Raymond was born in Princeton, Iowa, in 1859, studied engineering at the University of Kansas and graduated from Washington University with the degree of civil engineer in 1884. Before graduation he worked as an assistant engineer on railway construction and after graduation began teaching at the University of California where he was an instructor in civil engineering from 1884 to 1890. From 1892 until he went to the University of Iowa in 1904 he was Professor of Geodesy, Road Engineering and Topographic Drawing at Rensselaer Polytechnic Institute. Mr. Raymond began his work at Iowa University as Professor of Civil Engineering, becoming Dean of the College of Applied Science when that was organized in 1905.

Dean Raymond's activities were not confined to his college work. He practiced as a consulting engineer and wrote a number of books, some of which, such as his "Plain Surveying," have been standards of engineering instruction for many years. He also took an active part in technical society activities, being a past president of the Society for the Promotion of Engineering Education, which organization was holding its convention at the University at the time of his death; was a past president of the Iowa Engineering Society and a member of the American Society of Civil Engineers and the American Railway Engineering Association. During the war he served on the Iowa State Board of Conciliation for the adjustment of public utility rates.

The degree of Doctor of Laws was awarded to Dean Raymond by Washington University in 1905, and the degree of Doctor of Engineering was awarded to him by Michigan University in 1919.

Allegheny County Opens New 7th St. Bridge

On June 17 the new 7th St. bridge over the Allegheny River, in Pittsburgh, built by the County of Allegheny, was opened to public traffic. This is the first of the three downtown bridges (6th, 7th and 9th Sts.) which are being rebuilt at the order of the War Department to give greater vertical clearance and better arrangement of piers for navigation. The structure is of the self-anchored type. The foundations were built by The Foundation Co. and the superstructure by the American Bridge Co., to designs made by the county Department of Public Works.

Failure of Sunnyside Reservoir Due to Seepage

On the morning of Aprli 28 a break 30 ft. wide occurred in the west wall of the Sunnyside reservoir which is part of the municipal water supply system of Salt Lake City. The reservoir is an artificial basin formed partly by excavation and partly by fill, and is lined with 6 in. of concrete. The dimensions are 140x205 ft. at the bottom, the depth is 30 ft. and the side slopes 1½:1. At the time of failure the water was 23 ft. deep.

Failure is ascribed to leakage which apparently started near the center of the west side and traveled through the embankment diagonally until it encountered the outlet, overflow and washout pipes. From that point it naturally followed these pipes through the fill section. Slight leakage had existed for some time. The first indication of more serious trouble was a small stream of murky water coming through the valve well which was observed by the caretaker. He immediately reported this to the water works department and opened the outlet gate. Forty minutes later the wall was out and the reservoir empty.

The natural ground line intersects the western slope, where the failure occurred, midway between the top and bottom. With the exception of a layer of hardpan 2 ft. thick, about 10 ft. below the ground surface the material is very fine sand.

$12,000,000 Asked for Montreal Harbor Improvements

A government bill to authorize a loan, not to exceed $12,000,000, to the Montreal Harbor Commission, in connection with a big development program, has been introduced in the Canadian House of Commons. The minister of marine and fisheries stated that the current program of the harbor board included $5,400,000 for wharves, piers and basins, $3,155,000 for a grain elevator, $1,342,000 for railways and electrification, $800,000 for dredging, $322,000 for shops and buildings $300,000 for permanent sheds, $155,000 for plant and the remainder for miscellaneous purposes.

Resolutions Against Oil Pollution Adopted by Conference

Delegates of a dozen nations to the International Conference on Oil Pollution of Navigable Waters held at Washington, D. C., beginning June 8, adopted a proposed convention, effective when 5 of the 12 participating nations have signed the agreement. The convention provides for the establishing of areas not less than 50 nor more than 150 miles from shore into which oil or oily substances shall not be discharged from any craft other than war vessels that carry oil or use it as fuel. The limitation as to the amount oil that may be discharged is fixed at "0.05 per cent of crude, fuel or Diesel oil" or enough "to form a film visible to the naked eye."

WASHINGTON NOTES

PRESIDENT COOLIDGE, on June 22, signed the bill appropriating $165,000,000 for highway construction over a period of two years.

THE House has passed the bill authorizing payment of the expenses of three delegates representing the United States at the International Sanitary Conference meeting in Paris, to revise the International Sanitary Convention of 1912.

A SUPPLEMENTAL appropriation of $50,000 for the establishment of a master scale for checking the large scales in use by the railroads and some industrial plants has been asked by the Bureau of Standards. It is contended that there now is no adequate check on the scales used in weighing the $4,500,000,000 worth of freight which the railroads handle each year.

THE House Committee on Irrigation and Reclamation has approved a bill authorizing the Secretary of the Interior to pay assessments against government property on reclamation projects for municipal improvements. The Comptroller General ruled recently that assessments for paving, sewers or similar improvements may not be paid even if the property is benefited without legislative authority.

THE Portland Electric Power Co. of Portland, Ore., has applied to the Federal Power Commission for an amendment to its license which will allow it to take up the second stage of its development on the main fork of the Clackmas River in Clackamas County, Ore. A tunnel 22,000 ft. long will carry the water into the Oak Grove reservoir. An additional 37,500 kw. is to be installed in the Oak Grove power house.

THE Public Lands Committee of the Senate has approved a bill giving the consent of Congress to the opening of negotiations by Idaho, Washington, Wyoming and Oregon looking to a compact with respect to the division of the waters of the Snake River and its tributaries. Any agreement before becoming binding must be approved by the legislature of each state concerned and by Congress.

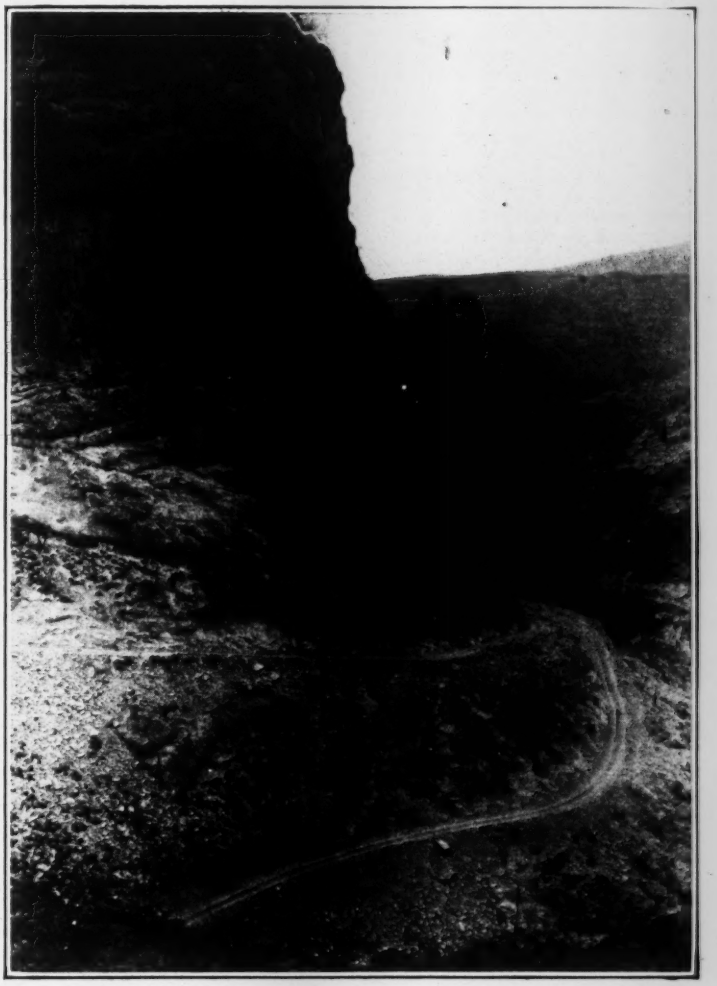
The Secretary of the Interior in reporting on the bill declares he is "heartily in accord with the plan of adjusting differences relating to the division of the waters of interstate streams by means of compacts between the states involved."

The Committee also approved a similar agreement between Wyoming and South Dakota for the division of the waters of the Belle Fourche and Cheyenne Rivers.

IN CO-OPERATION with the Secretary of War and the Secretary of the Navy the House Military Affairs Committee and the Naval Affairs Committee have prepared a bill intended to encourage the development of aviation. The committees regard the bill as a promising step in the development of aviation for defense and "as a most useful means for fostering the aircraft industry and promoting the art of aviation."

It is planned to throw open the doors of competition to all designers and inventors "even to all those with but limited financial strength." Nationwide competitions are to be staged and provision made to reward those who bring forward ideas of real merit.

Another objective of the bill is to develop a private air craft industry. A plan is worked out to insure remunerative prices to a large number of producers. The committee does not want to see two or three large manufacturers get all the contracts. Conspiracy among bidders to prevent competition is heavily penalized.



CONSTRUCTION ROAD IN FISH CREEK CANYON

IN LOCATING a construction road to the site of the Horse Mesa dam in the Salt River Canyon, Arizona, engineers of the Salt River Valley Water Users' Association selected a route via the precipitous Fish Creek canyon which enters the main canyon some four miles below the dam site, traversing a region heretofore practically inaccessible. The road winds in continuous curves around bold pinnacles and cliffs where the remnants of ancient cliff dwellings are found, and for several miles threads a canyon whose scenic features rival the Grand Canyon of the Colorado.

The location was made possible by entering a narrow notch near the head of the canyon and then carefully working out a zigzag descent into the canyon with sharp curves just outside the "switchback" class. Having thus descended abruptly to a level below the sheer cliff faces, it was possible to locate on a bench cut for most of the remaining distance through the canyon. To the truck driver on this job, being on the brink of a precipice is daily routine.

The picture shows one of the zigzags in the road where it enters Fish Creek Canyon.

Engineering Educators Meet at Iowa University

(*Concluded from p. 1037*)

the actual evidence that he is unqualified; his aptitude may lie in some particular direction which will be shown in the examination results.

EXTENSION AND CO-OPERATIVE COURSES

Extension courses have been studied by comparison with work in residence, and the conclusion from this study is that, properly administered, such courses may be made to furnish a ready means of keeping the graduate up to date and growing in his field, as well as offering opportunity to men who cannot for some reason attend college. A surprising bit of evidence in the findings is the fact that a large part of the students who had taken work both in residence and in extension considered the influence and personality of the teacher more intense and helpful in extension courses than in residence courses.

Co-operative courses, half of the time being spent in college and half in industry in short-period alternation, have proved valuable in giving the student a perspective of actual working conditions. In many instances such courses permit, through having only half the students in residence at one time, more efficient use of space and equipment in the college. Often the co-operative plan has permitted the utilization of equipment for research which would have been far beyond the means of the institution, the students being granted the use of the facilities of the industry served.

Two dominant notes were sounded throughout the whole discussion whenever teacher requisites were mentioned; the first and more insistent was "can the teacher teach"; the other was "is the teacher qualified as a leader in research and industry." All seemed to agree that the teacher was the most important factor in the effectiveness of any curriculum. One institution considers four chief points, in the order named, in selecting members to its instructional staff—scholarship, teaching ability, professional standing, and aptitude or training in the humanities. Another paper suggested the advisability for the training of teachers in a summer course of a month's duration, with suitable arrangements made for instruction, expense of the young instructors who would attend, scope of the training, and other details.

CURRICULA

In the presentation of the study relating to curricula, the subject of foreign languages evoked a good deal of spirited discussion. Dean Cooley championed the cause of the study of language for the practical reason of possible invasion of foreign fields, and precipitated a warm debate. The findings of fact show that foreign languages are not so much admission requirements as formerly, nor so much required courses of study in engineering colleges. In the course of the discussion some members held that foreign languages had never been demonstrated to have had enough more value than various other so-called cultural subjects to warrant their inclusion to the exclusion of the other courses.

BOARD OF INVESTIGATION

Probably the most important single feature of the convention was the report of the Board of Co-ordination and Investigation. Associate Director Hammond's summary of the fact-gathering stages set forth such a mass of careful, thorough, all-inclusive evidence as to be almost unique in the history of engineering education. Chairman Scott reported on some of the administrative phases of the work. Noteworthy in his statement were the encouragement and appreciation expressed by the various bodies concerned, and their admonition to proceed to the application of the principles evolved from the study.

Director Wickenden made analysis and recommendation on the basis of the facts found in the investigation. His report, throughout, was constructive rather than destructive. The present order, by it, would not be destroyed, or crippled by serious alteration, but rather would be strengthened and amplified until engineering education was more balanced and stabilized in all institutions. By the report, the four year course, with simplification and unification of subject matter, may be confidently expected to give a good general training upon which to build an intense technical knowledge by graduate study, extension courses, or post-scholastic education. The technical engineer of today is called upon to be thoroughly trained in one field and intelligent in several allied fields. This demands broad general training followed by education along with practice. The report repeatedly stressed the fact that concerted action by the colleges is necessary to insure real progress now. It is evident that the colleges alone cannot solve the problem of engineering education, but that the industries, the engineering societies, and the colleges must work together to meet their mutual obligations and serve their mutual interests. In the early fall, a group of deans and executive officers will meet to formulate a program of action to reach practices making for further co-ordination in engineering education.

Because of the death of Dean Raymond, the convention was hastened to a close a half day sooner than had been scheduled by presenting some of the matters of business on the evening which was to have been devoted to the banquet and by cutting short the final discussion period.

The officers for the coming year are: O. M. Leland, Dean of Engineering, University of Minnesota, president; H. W. Tyler, Massachusetts Institute of Technology and W. S. Rodman, University of Virginia, vice-presidents; F. L. Bishop, Dean of Engineering, University of Pittsburgh, secretary; W. O. Wiley, treasurer; Miss Sada A. Harbarger, Ohio State, W. K. Hatt, Purdue, E. R. Hedrick, University of California, R. A. Seaton, Dean of Engineering, Kansas State Agricultural College, J. W. Votey, University of Vermont, and S. M. Woodward, State University of Iowa, council. The next convention of the society will be held at the University of Maine, Orono, Maine.

Cement Association Takes Over Research Work

After June 30 the work of the Structure Materials Research Laboratory, which has been carried on by the Portland Cement Association in co-operation with the Lewis Institute at the building of the latter, 1951 West Madison St., Chicago, will move to the new P.C.A. building, 33 W. Grand Ave., Chicago. The work there will be continued as the Research Laboratory of the Portland Cement Association. Duff A. Abrams continues in charge of the laboratory.

Overflow Indicates Silting Up of Pescadero Cut

On June 14 telegraphic dispatches from Calexico stated that about half the flow in the Colorado River was pouring through a 600-ft. break in Pescadero levee which extends to the southwest beyond Pescadero Cut and along its north side. The break was not considered a menace to Imperial Valley lands because the river is now at a comparatively low stage and the Saiz and Volcano Lake levees stand as a second line of defence some distance to the west and north of the overflowing waters.

Significance attaches to the break, however, because it occurs with a flow of only 65,000 or 70,000 sec.ft. while in June, 1922, the year in which the Pescadero Cut was put in service, a flood of 112,000 sec.ft. followed this route without overflow. It is believed that a considerable silting up of this route has occurred, probably just below the Pescadero Cut itself. The present situation has given rise to speculation as to what might occur in a heavy flood. The flood of 1916 amounted to about 240,000 sec.ft.

Moffat Tunnel Commission Sells More Bonds

Unforeseen difficulties existing in boring the Moffat Tunnel have increased the cost beyond the upset price of $6,720,000 laid down by the Colorado Legislature in 1922 when it ordered the tunnel driven. Little preliminary investigation along the line of the tunnel was or could be made in the way of borings on which to base cost estimates. A new 5½ per cent loan of $3,500,000 just negotiated is the second supplemental loan, the first being for $2,500,000. Much of the added cost is chargeable to timbering required by the nature of the work encountered and by other normal developments of the work, but aside from some water flows there have been no serious difficulties. J. Vipond Davies, consulting engineer, states that work is proceeding satisfactorily and conditions encountered are normal.

Progress as of May 15th was reported as follows: Pioneer tunnel, east portal 15,459 ft., west portal 12,413 ft., leaving 4,511 ft. between the headings; main tunnel, east portal 14,868 ft., west portal 12,038 ft. The railroad tunnel has been enlarged to full size 13,239 ft. at the eastern end and 6,760 ft. at the western end.

Engineering Societies

Calendar

Annual Meetings

AMERICAN SOCIETY FOR TESTING MATERIALS, Philadelphia, Pa.; Annual Meeting, Atlantic City, N. J.; June 21-25, 1926.

AMERICAN SOCIETY OF CIVIL ENGINEERS, New York, N. Y.; Summer Meeting, Seattle, Wash., July 14-16; Annual Convention, Philadelphia, Pa., October 4-9, 1926.

NEW ENGLAND WATER WORKS ASSOCIATION, Boston, Mass.; Annual Meeting, Providence, R. I., Sept. 14-17 1926.

INTERNATIONAL CITY MANAGERS' ASSOCIATION, Lawrence, Kansas; Annual Convention, Colorado Springs, Colo., Sept. 21-23, 1926.

The Providence (R. I.) Engineering Society at its June 8 meeting elected the following officers: President, Francis B. Marsh; vice-president, R. Leslie Fletcher; secretary, A. W. Meyer; and treasurer, C. T. Morey.

The Council of the Affiliated Technical Societies of Boston held its annual meeting June 7 and elected for the ensuing year the following officers: Chairman, Frederic A. Eustis; vice-chairmen, Lewis E. Moore and Frank A. Marston; and treasurer, Alfred Kellogg.

The San Francisco Section of the American Society of Civil Engineers at its bimonthly meeting on June 15 elected R. A. Monroe secretary-treasurer to succeed Harold B. Hammill. A. Kempkey presented the paper of the evening which described the Gordon Valley project that provides a water supply for the city of Vallejo.

Personal Notes

DR. CHARLES TERZAGHI, during the past year special lecturer on soil mechanics at Massachusetts Institute of Technology, has been appointed associate professor at the Institute.

THORNDIKE SAVILLE, professor of hydraulic and sanitary engineering at the University of North Carolina, has been given a year's leave of absence from the University and from his work for the North Carolina Department of Conservation and Development. Professor Saville, who recently made a brief trip to Venezuela for the International Health Board of the Rockefeller Foundation in company with Dr. H. H. Howard, Director for the West Indies for the Rockefeller International Health Board, has been "loaned" to the government of Venezuela to organize and for the time to administer a Bureau of Sanitary Engineering. The Venezuelan government has control of many municipal affairs, including water supply, sewage, garbage and malaria control. Professor Saville will investigate and plan additional new water supplies for some of the larger cities of Venezuela. He will take with him an assistant engineer from this country, but otherwise his staff will be supplied by the Venezuelan government. He will sail for Venezuela with his family July 3.

A. J. BOZE has been appointed county highway engineer for Adams County, Wisconsin, to succeed John McGregor, resigned.

FRANK BURTON has tendered his resignation as commission of the building department of the city of Detroit, in order to go into private practice in Detroit. Mr. Burton has been building commissioner in Detroit for the past five years; he is also president of the Building Officials Conference.

W. K. SEITZ, lately city engineer of St. Joseph, Missouri, has resigned his former position to become city manager of Melbourne, Florida.

MAJOR GENERAL HARRY TAYLOR, the retiring Chief of Engineers, expects to remain at his desk until the very end of his term. He will turn the office over to Major General Edgar Jadwin, his successor, on June 28, but he will have to remain on duty for several days to dispose of the various matters he has been handling personally. General and Mrs. Taylor will leave shortly for an extended European tour.

THOMAS T. TOWLES, formerly with the Department of Public Works, Richmond, Va., and prior to that with the du Pont Engineering Co., has recently taken a position as engineer in the structural division of Stone & Webster, Inc., Boston, Mass.

MAJOR M. P. FOX of the Corps of Engineers is in Brûssels to attend the Navigation Congress. While in Europe he will visit various navigation works.

H. R. WAKE, of the engineering staff of the Aluminum Company of Canada, has been appointed town manager of Arvida, the new industrial town on the Saguenay River.

A. D. C. BLANCHARD, hydraulic engineer of the New Brunswick Electric Power Commission, has resigned and will join the staff of the International Paper Co., Grand Falls, N. B.

G. S. SMITH has been appointed assistant division engineer of the Colorado division of the Missouri Pacific R.R.

FRANK A. BARBOUR and G. GALE DIXON announce the dissolution of the partnership of Barbour and Dixon, consulting engineers, Boston, Mass. Mr. Barbour will practice in his own name, as prior to the partnership, specializing in hydraulic and sanitary engineering, with offices in the Tremont Building, Boston. Mr. Dixon joins the engineering staff of the Mahoning Valley Sanitary District, at Youngstown, Ohio.

F. M. RANDLETT has been promoted to the position of Pacific Coast Manager of Robert W. Hunt Co. Mr. Randlett was formerly district manager in the Pacific Northwest, with headquarters at Portland, Ore., and Seattle, Wash., and previous to that time was for many years chief engineer of the Water Department of Portland, Ore.; he served previously in the engineering department of the New York, New Haven & Hartford R.R. and with Stone & Webster, Inc.

WILLIAM B. GESTER, who established the San Francisco office of Robert W. Hunt Co. in 1903, continues his association with that company in the capacity of consulting engineer, with headquarters at San Francisco.

J. H. MANNING, vice-president of the division of engineering and construction, Stone & Webster, Inc., Boston, will shortly transfer his headquarters to the New York office of the company at 120 Broadway.

EDWARD E. WALL, formerly director, public utilities, for the city of St. Louis and for many years water commissioner has opened an office as consulting engineer in the Merchants-Laclede Building, St. Louis.

VERNE E. ALDEN, assistant to general superintendent of Consolidated Gas, Electric Light & Power Co., of Baltimore, Md., for the past eight years and prior to that in electrical design work with the Westinghouse Electric & Manufacturing Co. at East Pittsburgh, Pa., has joined the mechanical division of Stone & Webster, Inc., at its Boston office.

C. F. LOWETH, Chicago, Ill., chief engineer of the Chicago, Milwaukee & St. Paul Ry., received the degree of doctor of engineering from Rose Polytechnic Institute, Terre Haute, Ind., June 10.

GEORGE L. ALDEN, head of the mechanical engineering department of Worcester Polytechnic Institute, Worcester, Mass., received from this institute June 18 the degree of doctor of engineering. Professor Alden has been engaged during the past few years in developing the new hydraulic laboratory for Worcester Polytechnic Institute, which was opened recently.

Obituary

CHARLES G. YOUNG, consulting engineer, New York City, former president of the C. G. Young Engineering Co., died suddenly at a place near San Juan, Porto Rico, June 16, after returning from work on an engineering project in Santo Domingo. Mr. Young was born in Bath, N. Y., in 1866, was educated at Haverling Academy, and was engaged for a number of years in electrical engineering work. From 1902 to 1909 he was construction manager for the White-Crosby Co. and the J. G. White Co. Since 1909 he had been president of the company bearing his name, engaged in consulting engineering and construction work, investigations and plans for public utilities, in this country, South America, Europe and Asia.

From the Manufacturer's Point of View

A Point of Contact
Between Maker and User of
Construction Equipment and Materials

Concrete Road Yardage

For May the square yardage included in concrete pavement contract awards, according to the Portland Cement Association were: 8,910,678 for roads; 4,619,195 for streets; and 507,250 for alleys; or a total for the month of 14,037,123 sq.yd.

The accompanying table summarizes the statistics for the current year:

SQUARE YARDS OF CONCRETE PAVEMENT AWARDED DURING 1926

Month	Roads	Streets	Alleys	Total All Classes
Jan.....	2,161,415	1,410,201	57,218	3,628,834
Feb.....	2,726,611	2,010,941	274,836	5,012,388
March..	4,662,885	3,050,630	224,879	7,938,394
April....	8,758,195	4,324,729	479,763	13,562,687
May....	8,910,678	4,619,195	507,250	14,037,123
Totals	27,219,784	15,415,696	1,543,946	44,179,426

Relative Wear of Floorings

Experimental work at the Mellon Institute of Industrial Research, Pittsburgh, instituted by tile manufacturers, has resulted in some comparative data on wood and other flooring materials.

Pressure was applied on the different materials by a wheel shod with leather surfaces and fine sand was constantly fed between the leather and floor material to imitate the effect of dirt ordinarily found in some amount on all floors. After a test period of similar duration in each case, the material was weighed to determine the percentage loss by abrasion. Following is a list of the materials tested and the amount of wear under the test:

Material	Average Per Cent Loss
Vitreous tile	4.57
Marble	23.18
Maple wood	23.79
Rubber	20.59
Linoleum	56.57
Oxychloride cement	50.10
Neat Portland cement	16.79
Asphaltic composition	80.11
Cork tile	45.93

It will be noted that vitreous tile resisted wear most effectively. The test conditions were perhaps not entirely representative of actual practice, as mortar of cement and sand, rather than neat Portland cement, is usually employed for floor surfacing, and the wood floors were tested without the protection of varnish or other floor finish, such as is almost invariably applied in practice.

National Training School for Apprentice Tile Setters

Under the auspices of the Associated Tile Manufacturers, a training school for apprentice tile setters is under way at Dunwoody Institute in Minneapolis. A few years ago an experimental course was conducted at Dunwoody by the tile manufacturers but there followed a period during which the progress was slow.

The new school is planned for four courses, the first beginning on June 1. Each course is 13 weeks. The other courses will start in September and December of this year and in March, 1927. There are about 20 apprentices in the course now under way. It is the intention of the school to show that instruction can be given in a way that will shorten the apprenticeship term, turn out good workmen and yet not overcrowd the ranks of the trade.

Business Notes

GENERAL ELECTRIC CO., Schenectady, N. Y., announces that it is aiding in the manufacture of two new oil-electric locomotives that are to be applied to industrial and short line freight service. The Red River Lumber Co. plans to place a 100-ton oil-electric locomotive in service on a line 15 to 20 miles in length. Maximum grades are of 2 to 3 per cent. The Utah Copper Co. will soon place a 60-ton unit in service at Bingham, Utah, for hauling waste cars on the upper levels at its mine. The 100-ton locomotive is similar to those used by the Long Island and Great Northern Railway. The smaller locomotive is like those of the Central Railroad of New Jersey, B. & O., Lehigh Valley, D. L. & W., Reading and the Erie. These oil-electric locomotives are being developed jointly by the American Locomotive Co., Ingersoll-Rand Co. and General Electric Co.

FAIRBANKS STEAM SHOVEL CO., Marion, Ohio, has been purchased by the Osgood Co., of the same city. The purchasers are prepared to furnish from the records and drawings now in their possession repair parts for Fairbanks machinery and equipment that is now in the field. Charles Melvin, who was connected with the Fairbanks Steam Shovel Co. for 24 years, has been retained by the Osgood Co. and placed in charge of the department for handling service and repair parts on Fairbanks machines. All owners of dredges or other Fairbanks equipment are requested to write to the Osgood Co., giving the present location of their machinery.

TIMKEN ROLLER BEARING CO., Canton, Ohio, announces the following changes in its personnel: H. E. Gilmore promoted to manager of the St. Louis branch, following several years' experience at the Chicago branch; G. W. Curtis promoted from industrial equipment engineer to district manager of sales, industrial division, for the Milwaukee territory. S. M. Weckstein succeeds Mr. Curtis as industrial equipment engineer. G. W. Richards and A. R. Spicacci are appointed assistants to Mr. Weckstein.

FREEMAN W. STOWE, formerly sales engineer with the Sivyer Steel Casting Co., Milwaukee, has become associated in the same capacity with Deemer Steel Casting Co., New Castle, Del.

ARMCO CULVERT & FLUME MANUFACTURERS ASSOCIATION is celebrating this year the 30th anniversary of the invention of the corrugated culvert. In the thirty years the original design has remained unchanged. The first corrugated culvert manufactured by the inventor, James H. Watson, was recently removed from under a public highway near Crawfordville, Ind., where it had been placed in 1896. It is now on display at the association's research laboratory at Middletown, Ohio.

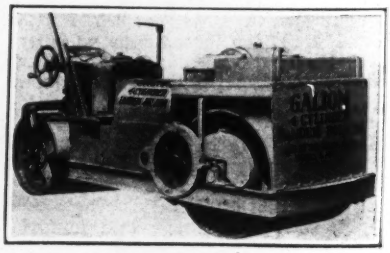
A. W. CLAUSSEN, formerly assistant engineer of the National Underwriters Laboratories, Chicago, has joined the organization of the McWane Cast Iron Pipe Co., Birmingham, Ala., as research engineer, with headquarters in Birmingham.

WESTINGHOUSE ELECTRIC & MFG. CO., East Pittsburgh, Pa., announces that Francis Hodgkinson, for many years chief engineer of the South Philadelphia Works, has been appointed the consulting mechanical engineer for the organization as a whole. At the same time the office of chief engineer has been discontinued, and a new position, manager of engineering, announced. Appointed to the new position is A. D. Hunt, for many years a member of the engineering staff of the company.

Equipment and Materials

Tandem Roller Powered by Gasoline Engine

Embodying several new details in addition to the change from steam to gasoline power, a new tandem road roller manufactured by the Galion Iron Works & Mfg. Co., Galion, Ohio, is available in 5, 6, 7, and 8-ton sizes. A Hercules four-cylinder motor is used, mounted in a rigid chassis frame. The gearing to the driving roll is a simple spur gear arrangement. The roller has two speeds each way, of 2 m.p.h.



and 3½ m.p.h. Gears, shafting and bearings are inclosed in a cast-iron case, while the entire mechanism is inclosed in a sheet metal housing. Both hand and power steering gear are provided, the latter being driven directly from the crank shaft of the engine. Other features are adjustable scrapers on the rolls, phosphor bronze bearings for the axles, and sprinkling, cooling, and gasoline tanks of large capacity.

Sidewalk Protection Bridge Uses Standardized Steel Frame

For protecting sidewalks around buildings under construction or repair, the Patent Scaffolding Co., New York City, has developed a standardized

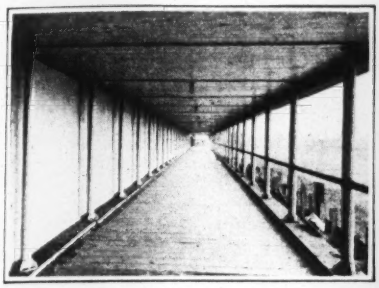


FIG. 1—SIDEWALK BRIDGE AT STEVENS HOTEL, CHICAGO

steel frame sidewalk bridge. The illustrations show the installation around the new Stevens Hotel in Chicago where 1,000 ft. of this sidewalk bridge is being used. The rental value on this job is about $5,000 a month. The bridge may be either purchased outright or rented from the company. It is claimed to be cheaper than wood scaffording, easier to erect, and more pleasing in architectural appearance.

The bridge is suitable for any desired span and the columns may be shifted to miss obstructions, driveways, etc.

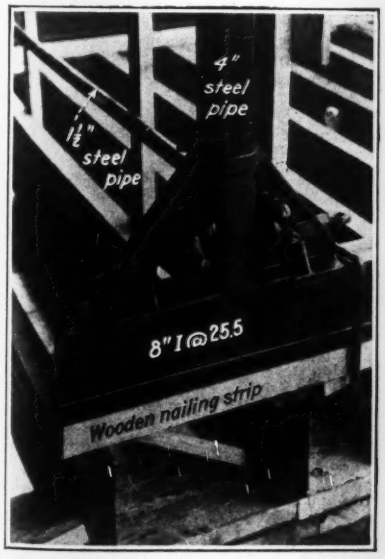


FIG. 2—DETAIL OF COLUMN CONNECTION TO CROSSBEAM

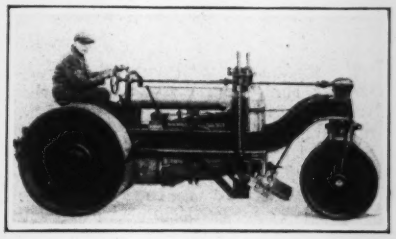
The adjustable span feature is made possible by the clamp connection between the column and the crossbeam. There are no connections that require the drilling of bolt holes.

The unit consists of cross beams of 8-in. I-sections to which are clamped 4-in. steel pipe columns connected in a longitudinal direction by 1½-in. steel pipe. A wooden nailing strip is bolted to the bottom of the cross beam for attaching to the wooden stringers resting on the sill. Wooden panel balustrades are erected between the columns as is usual in all other sidewalk bridges.

New Fordson Roller Convertible Into Three Different Sizes

By means of an arrangement for bolting heavy disks to the wheels, the Wehr Co., Milwaukee, has produced a Fordson road roller which can be made into a three- a four or a five-ton machine. Disks bolted to the rear wheels make it a four-ton roller, and to both the front and rear wheels convert it to a five-ton machine. A feature is that the scarifier has been located ahead of the center of gravity. This means, it is claimed, that the pressure required to force the teeth into the ground does not lessen traction by lifting up on the drive wheels.

The frame is of 8-in. channel steel, and a 3-in. diam. steel shaft is used on the front axle. The equipment is 12 ft.

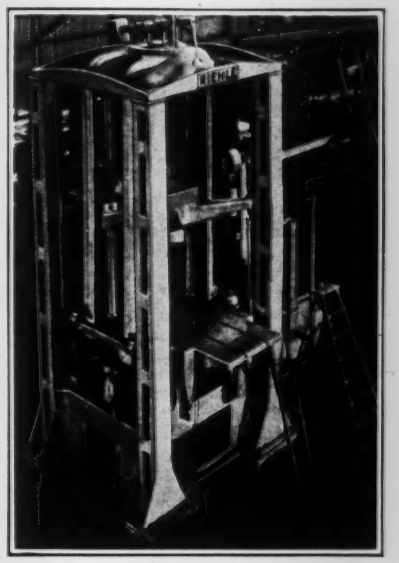


4 in. long, and 5 ft. wide, and has a 9-ft. wheel base. The width of the rear rolls is 16 in., while the diameter of the rear rolls is 42, and the diameter of the front rolls 30 in. There are seven teeth in the scarifier, 4½ in. apart, having a 7-in. ground clearance when raised.

New Line of Vertical-Screw Testing Machines

A patent was granted Feb. 16, 1926, for the new line of testing machines that has recently been introduced by the Riehle Brothers Testing Machine Co., Philadelphia, Pa. The rotating screw feature on the old designs has been retained, so that no part of the machine projects below the base line. This makes a saving in foundation costs, and permits the installation of a testing machine in many locations, where otherwise it would be impossible.

The machine embodies the three pulling-screws feature, with which it is impossible to load the machine so that each of the three screws does not carry its share of the load. A single screw has been placed on the center line of the machine toward the front or weighing-beam, and the other two screws are spread equidistant from the center line at the back of the machine. This arrangement is said to be most convenient for conducting tests, since the operator is in full view of the specimen at all



times, and the other witnesses of the test can make observations from any one of three points.

In all of the newer designs of this machine the space between the pulling screws has been widened so that there is more table room and additional space for the placing of specimens and instruments for making observations. The load is indicated on a micrometer dial-screw beam up to full capacity of the machine without the use of end weights. The poise is propelled either manually or automatically, and an autographic recorder can be used to produce a stress strain curve.

The illustration shows one of this type of testing machines of 1,000,000 lb. capacity in the laboratory of Ohio State University. This machine has an opening between screws of 38½ in. A similar machine is now being constructed for the American Steel Foundries of the same capacity, but having a clear space of 74 in. between the screws.

Publications from the Construction Industry

Steel Cross Ties — CARNEGIE STEEL Co., Pittsburgh, has issued the ninth edition of its booklet on steel cross ties, which is divided into three sections—mine ties, ties for portable tracks, and ties for steam and electric railroads.

Silent Chain Drive—LINK-BELT Co., Chicago, in its book No. 812, shows the use of its silent chain drive for machine tools. Illustrations and examples of its use under many conditions are given, so that this book supplements the company's book No. 125 which contains list prices, methods of figuring drives, and

complete information about the details of the product.

Gears—FOOTE BROS. GEAR & MACHINE CO., Chicago, has issued a 600-page book containing a catalog of its complete line of gears and speed reducers, and much engineering information on the same, besides mathematical tables and other information on mechanical engineering subjects. It is indexed by subjects on each page, and has a complete cross reference index in the back. It comprises in fact a treatise on modern speed reduction units and industrial gearing, and should be a valuable reference book.

Drill Carriages—SULLIVAN MACHINERY CO., in its Bulletin No. 81-L describes its drill carriage which was developed by D. J. O'Rourke, formerly in charge at one of the portals of the Moffatt Tunnel, and now on the company's staff.

Lumber Waste Prevention—NATIONAL LUMBER MANUFACTURERS' ASSOCIATION, in its "National Lumber Handbook" for June, 1926, publishes descriptions of the prize winning devices in its recent waste prevention contest. Text and drawings explain the devices in detail. Conditions for the 1926-1927 contest are also given.

For Brinell Machines—MOREHOUSE MACHINE CO., York, Pa., has issued a pamphlet dated June, 1926, describing its proving ring for calibrating Brinell hardness testing machines. These proving rings developed by the Bureau of Standards have just been put on a commercial basis, this pamphlet announces.

Power Shovels and Cranes—KOEHRING CO., Milwaukee, Wis., has recently issued a 1926 edition of its catalog and specifications on its size No. 1 shovels, cranes and draglines. Extra complete specifications are given together with photographs and descriptions of the most important of the machine details. Dipper dimensions are considered rather more fully than has heretofore been the practice.

Rock Asphalt—ROCK ASPHALT CORP., Cherokee, Ala., in its 16-page booklet on "Good Roads, How They May Be Made To Last," gives a description of Cherokee Rock Asphalt, telling what it is, how it is used and its advantages in the construction of pavements. Illustrations are given of the company's quarry, plant, testing laboratory and still others of the rock asphalt in use on new and repair road work.

Air Compessors—BUHL CO., Chicago, devotes two new bulletins, Nos. 102 and 103, to its stationary and portable air compressors. Photographs and specifications are given for both types.

Wire Rope—BRODERICK & BASCOM ROPE CO., St. Louis, devotes the May issue of its monthly house organ to a special fiftieth anniversary number. The growth of the company is outlined and the 50-year development of wire rope in a number of industries is considered on separate pages.

Business Side of Construction

FACTS AND EVENTS THAT AFFECT COST AND VOLUME

This Week's Contracts—Week Ago—Same Week Last Year

THE money value of contracts reported in the present issue of *Engineering News-Record* is here compared with the figures for corresponding weeks. Minimum costs observed are: $15,000 for water-works and excavations; $25,000 for other public works; $40,000 for industrial and $150,000 for commercial buildings.

Money Value of Contracts Let—Entire U. S.

Week Ending	Public Work	Private Work	Total Contracts
June 24, 1926	$19,894,000	$23,717,000	$43,611,000
June 17, 1926	29,497,000	27,896,000	57,393,000
June 25, 1925	24,917,000	30,685,000	55,602,000
Heaviest Week			
1926, Mar. 11	13,029,000	73,613,000	86,642,000
1925, Sept. 3	16,215,000	69,424,000	85,639,000
January 1 to date			
1926	511,956,000	850,525,000	1,362,481,000
1925	498,288,000	640,071,000	1,138,359,000

Railways Use Quarter of U. S. Steel Output in 1925

Less Fuel, Lumber and Cement and More Steel and Ballast Required Than During 1924

Fuel, materials and supplies purchased by the Class I railroads of the United States during the year 1925, amounted to $1,392,000,000, a gain of 3.6 per cent over the year preceding and a drop of 19.9 per cent compared with 1923, according to a report of the Bureau of Railway Economics issued May 31, 1926.

These purchases were made directly by the carriers and not through contractors doing construction, equipment building, or other work for the railways.

Of the total output of the nation, the railroads purchased during 1925, the following percentages: bituminous coal, 28 per cent; fuel oil, 20 per cent; forest products, 20 per cent; steel, 25 per cent.

Fuel purchases in 1925 were 2.6 per cent below those of the previous year, yet owing to improved locomotives and other factors, the carriers hauled 6 per cent more freight during the period, as measured in net-ton miles.

Iron and steel requirement for 1925 amounted to $419,254,603, of which $97,728,989 was for rails and $321,525,614 for other iron and steel products. Total steel expenditures increased 15 per cent compared with the year preceding and were 9.8 per cent under 1923. Rail purchases alone were $18,000,000 in excess of 1924 requirements.

Forest products cost the railroads $170,305,031 in 1925, a decrease of 5.8 per cent compared with the preceding year and 26.8 per cent under 1923.

Fewer switching, bridge and cross ties were used in 1925 than in 1924, owing, it is claimed, to increased use of creosoting and other preservative methods. The total timber and lumber footage purchased, however, increased 9.2 per cent during the year.

The carriers required a smaller amount of cement but over 50 per cent more ballast comparing 1925 with the year preceding.

This Week's Special Tabulation of Unit Prices

7. Concrete Masonry

The following unit prices on concrete (1 : 2 : 4) in place are included in the low bidders' estimates on various subway jobs, 1922 to date:

Location	Date	Cu. Yd.	Price per Cu. Yd.
Flushing, N. Y.	Oct. 1922	24,560	$14.75
Brooklyn, N. Y., Bushwick Ave.	Dec. 1922	7,630	15.00
Rochester, N. Y.	May 1923	4,000	21.00
Philadelphia, Pa., Broad St.	July 1923	10,000	15.75
Brooklyn, N. Y., Fourth Ave.	Oct. 1923	20,000	15.80
Brooklyn, N. Y., Sect. 2, R. 70	Apr. 1924	32,660	16.00
Brooklyn, N. Y., Sect. 6-C, R. 8	Oct. 1924	28,050	18.00
Philadelphia, Pa., Broad St.	Oct. 1924	73,000	22.00
New York, N. Y., Sect. 3-A, R. 78	Jan. 1925	29,000	20.00
New York, N. Y., Sect. 2, R. 78	June 1925	29,000	20.00
New York, N. Y., Sect. 6, R. 78	July 1925	47,000	23.00
Philadelphia, Pa., Broad St.	Aug. 1925	63,200	20.00
New York, N. Y., Sect. 1, R. 5	Sept. 1925	21,730	21.00
New York, N. Y., Sect. 4, R. 102	Oct. 1925	29,000	22.20
New York, N. Y., Sect. 3, R. 102	Dec. 1925	27,000	23.00
New York, N. Y., Sect. 2, R. 102	Dec. 1925	23,000	24.00
Sect. 8, R. 78	Mar. 1926	24,450	22.00
Sect. 5, R. 102	Mar. 1926	33,100	22.00

May Borrowings For State and Municipal Improvements 30 Per Cent Under Same Month Last Year

BONDS marketed during May totaled $132,339,182 compared with $109,046,923 of the preceding month and $190,585,636 of May, 1925, according to the *Commercial and Financial Chronicle*. The figures for May, 1925, include the $60,000,000 New York City bonds.

The placings for May, 1926, were augmented by the Detroit, Mich., awards of $22,088,000 and the $18,822,000 bonds of Baltimore, Md., both for general improvement.

Several of the other large issues follow:

$10,082,000 4¼s of Westchester Co., N. Y.; $5,000,000 4½s of Chicago Sanitary District, Ill.; $4,395,000 4s of Boston, Mass.; $4,096,000 4½s of Jersey City, N. J.; $3,351,000 4½s of the State of Georgia, and the $3,500,000 5¼s of the Moffat Tunnel Improvement District, Colo.

In the accompanying table, the rates ranged from 4 to 6 per cent. Most of the placements called for a premium while a few awards went at par or below.

REPRESENTATIVE PUBLIC BOND SALES, MAY, 1925

State	Purpose	Amount	Rate per Cent	Sold For	Basis	Dated	Maturity	Purchased By
Alabama	Harbor improvement	$1,000,000	4¼	101.11	4.19	May 1	1937–43	H. S. Boone & Co. and others, San Francisco
County								
Atlantic, N. J.	Bridge	297,000	4	102.26	4.31	Apr. 1	1928–57	Hoffman & Co., N. Y. City
Alleghany, Va.	Roads	150,000	5	102.58	4.42	July 1	1931	Stranahan, Harris & Oatis, Inc., of Toledo
Aiken, S. C.	Roads	530,000	4¾	100.81	4.57	July 1	1927–33	Eldredge & Co. of New York
Alameda, Calif.	Hospital	600,000	5	107.60	4.27	May 1	1937–43	American Securities Co. and others, San Francisco
Cass, Mich.	Roads	16,425	6	103.12	5.39	May 1	1928–36	Cass Co. State Bk. of Cassopolis
Caroline, Md.	Roads	21,000	4½	101.757	4.24	June 1	1931–37	Robert Garrett & Sons of Baltimore
Delaware, O.	Roads	25,880	5	102.22	4.46	May 3	1927–35	Prudden & Co. of Toledo
Essex, N. J.	Park	491,000	4¼	101.93	4.12	May 1	1927–51	J. S. Rippel & Co. of Newark
Fleming, Ky.	Roads	100,000	4½	100	4½	.....	.....	Fant & Co., Flemingsburg, and others
Guernsey, O.	Roads	22,657	5½	104.13	.....	.....	.....	The Herrick Co. of Cleveland
Green, Tenn.	Roads	15,000	6	103.50	.....	.....	1929–31	First Nat. Bk. of Greenville
Garfield, O.	Roads	150,000	5	104.95	4.49	July 1	1939	Stern Bros. & Co. of Kansas City
Hancock, O.	Road improvement	46,750	5	102.48	4.49	Oct. 1	1927–35	W. L. Slayton & Co., Toledo
Hoke, N. C.	Roads	20,000	5	103.44	4.73	May 1	1936–55	Provident Savings Bk. & Trust Co., Cincinnati
Harney, Ore.	Roads	100,000	5¼	101.85	5.07	May 1	1936–45	Blyth, Witter & Co. of Portland
Henry, Ind.	Drainage	1,596	6	100.31	5.90	Feb. 15	1927–36	Henry Co. Bk. of New Castle
Hamilton, O.	Road	229,017	4½	100.709	4.35	Apr. 1	1927–36	Harris, Forbes & Co. of Chicago and others
Hillsborough, Fla.	Highway	116,000	5	100.10	4.98	June 1	1928–36	Stranahan, Harris & Oatis, Inc., of Toledo
Houston, Ga.	Roads	160,000	5	.....	.....	Apr. 1	1939–56	The Robinson-Humphrey Co. of Atlanta
Johnston, N. C.	Road and bridge	130,000	4¾	101.45	.....	.....	.....	C. W. McNear & Co. of Chicago
Jackson, O.	Roads	32,100	5	100.20	4.95	May 7	1927–35	W. K. Terry & Co. of Toledo
Linn, Iowa	Roads	900,000	4¼	100.01	4.24	Nov. 1	1928–41	William R. Compton Co. and others, Chicago
Leflore, Miss.	Jail	125,000	4¾	101.78	.....	May 3	25 yrs.	Howe, Snow & Bertles, Inc., of Chicago
	Bridge	65,000	4¾	101.78	.....	May 3	25 yrs.	
Lehigh, Pa.	Improvement	800,000	4¼	101.073	3.89	June 1	1931–46	Harris, Forbes & Co. of New York
Muskingum, O.	Road	49,202	5½	105.81	.....	Apr. 26	1–10 yrs.	Otis & Co. of Cleveland
Polk, Iowa	Road	225,000	4¼	100.07	4.24	May 15	1927–43	White-Phillips Co. of Davenport
Township								
Lower Burrell, Pa.	.....	15,000	4½	100.77	4.45	May 10	1931–55	First Nat. Bk. of New Kensington
East Bethlehem, Pa.	School	80,000	4½	.....	.....	May 1	1933–55	First Nat. Bk. of Fredericktown
Lincoln, Pa.	Road	10,000	5	100.26	.....	May 1	.....	First Nat. Bk. of Sipesville and others
Municipal								
Akron, O.	Street improvement	193,300	5	101.75	4.31	Sept. 1	1927–35	Eldredge & Co. of New York
Alcoa, Tenn.	School	70,000	5	100.66	4.95	May 1	1932–56	W. S. Hill & Co. of Cincinnati
Anacortes, Wash.	Paving	34,000	5	100	5	Apr. 1	1928–42	State of Washington
Athens, N. Y.	Water	160,000			4.40	July 1	1930–64	Redmond & Co. of New York
	Sewer	40,000						
Atlanta, Ga.	Sewer	133,000	5	109.51	4.30	Jan. 1	1929–35	Empire Trust Co. of Atlanta
Beaver Dam, Wis.	Sewer	35,000	4½	102.28	4.26	May 1	1927–46	Old Nat. Bk. of Beaver Dam
Baltimore, Md.	Paving and bridge	4,204,000	4	98.6199	4.11	May 17	1936–53	National City Co. of New York and others
	Conduit	700,000						
	Sewer	5,500,000						
	Office	594,000						
	Museum	505,000						
	Water	2,844,000						
	School	4,475,000						
Beloit, Wis.	Sewer	25,000	4½	101.10	4.29	July 10	1927–39	Beloit Savings Bank
	Street improvement	20,000						
Canton, O.	Improvement	116,914	5	102.40	4.49	Mar. 1	1928–36	Otis & Co. of Toledo
Detroit, Mich.	Improvement	22,088,000	4¼–4½	.....	3.75–4.20	May 15	1927–56	First Nat. Bank of N. Y. and others
Moorhead, Minn.	Paving	70,000	5	100.03	4.99	June 1	1927–46	Drake-Jones Co. of Minneapolis and others

Steel Output Heavier Than a Year Ago—Demand Slower

Production of steel ingots for the first five months of this year was 7 per cent greater than for the corresponding period in 1925, according to the American Iron and Steel Institute.

The calculated output, all companies, for May, 1926 was 3,945,336 tons as against 4,123,941 in April and 3,454,971 tons during May of last year. The trend in production is very similar to that of 1925, in that both years show a drop in February, a recovery during the month following and a decline from March to the end of May.

Steel Ingot Output—All Companies

	1926 Tons	1925 Tons
January	4,150,469	4,193,281
February	3,801,776	3,752,352
March	4,488,362	4,194,340
April	4,123,941	3,583,676
May	3,945,336	3,454,971
Five months	20,509,884	19,178,620

Sales of fabricated structural steel for the first five months of this year, totaled 1,024,000 tons, according to the Department of Commerce. This represents about 5 per cent of the steel ingot output for the same period. Last year, structural steel sales for the first five months amounted to 1,000,400 tons or 5 per cent of the steel ingot tonnage produced during those months.

Steel demand, as indicated by unfilled orders on books of the U. S. Steel Corporation, shows a downward tendency similar to that in evidence during the first five months of 1925, with the exception that February of last year gained slightly over the month preceding, while the decline has been consistent since Jan. 1, 1926. Decreased shipments during May prevented the drop in unfilled orders from being more abrupt.

Unfilled Orders On Books of U. S. Steel Corp.

Last Day of	1926 Tons	1925 Tons
January	4,882,739	5,037,323
February	4,616,822	5,284,771
March	4,379,935	4,863,564
April	3,867,976	4,446,568
May	3,649,250	4,049,800

Cement Movement Jan. 1 to June 1 Lighter Than in 1925

Cement is following its regular seasonal characteristics as to production, shipments and stocks, but on a larger scale than at this time last year.

A comparison of the cement movement, Jan. 1 to June 1, 1926, with the same period last year, shows a smaller volume of output and demand thus far in 1926. The drop of one per cent in demand has been met by a cut of 5 per cent in output, thus serving to prevent a tendency toward price decline.

The following is according to the Bureau of Mines:

	Production Bbl.		Shipments Bbl.	
	1925	1926	1925	1926
Jan.	8,856,000	7,887,000	5,162,000	5,672,000
Feb.	8,255,000	7,731,000	6,015,000	5,820,000
Mar.	11,034,000	10,355,000	10,279,000	9,539,000
Apr.	13,807,000	12,401,000	14,394,000	12,961,000
May	15,503,000	16,467,000	16,735,000	17,950,000
Five Months	57,455,000	54,841,000	52,585,000	51,942,000

Mill stocks, for the entire country, amounted to 21,157,000 bbl., May 31.

Weekly Construction Market

THE recent rise in steel and the comparative steadiness of brick and cement have not served to completely check the downward trend in the construction materials' market. Lumber is weak, with the possible exception of long-leaf yellow pine, but the declining tendencies are marked in materials other than the four just mentioned. Douglas fir timbers dropped $2 per M. ft. at Seattle during the past week. Linseed oil continues to move in an upward direction; prices advanced 2c. in Denver and Chicago and 6c. per 7½-pound gallon at New York, since June 17.

Prices are firm with upward tendencies in steel plates and reinforcing bars. Mill quotations dropped 10c. on blue annealed, 25c. on black and 30c. per 100 lb. on galvanized sheets during the last week. Pittsburgh prices on the principal hot-rolled products are: bars, $2 per 100 lb. in carload lots or better; shapes and plates $1.90 per 100 lb., f.o.b. mill. Pig iron declined $1 per ton at Cincinnati, New York, Chicago and Pittsburgh during the week.

Strikes and other building trades labor troubles are in force in seventeen cities throughout the country. During the last week, hoisting engineers in Kansas City, who had been on strike since May 10, returned to work at the old scale of $1.12½ per hr., with a rate of $1.19 to become effective Sept. 1, 1926. The engineers, together with the carpenters, had demanded $1.25; the latter are being hired back at $1.12½ per hr. in many instances, on an open shop basis, with little disorder reported.

Beginning July 1, Chicago bricklayers will receive $1.62½ per hr., against the old rate of $1.50. Plasterers have already been granted a similar advance.

	New York	Atlanta	Dallas	Chicago	Minneapolis	Denver	San Francisco	Seattle	Montreal
Steel Products									
Structural shapes, 100 lb.	$3.34	$3.40	$4.15	$3.10	$3.35	$3.07½	$3.30	3.35	$4.00
Structural rivets, 100 lb.	4.50	3.50	4.75	3.50	3.75	4.65	5.00	4.00	5.50
Reinforcing bars, ¾ in. up, 100 lb.	3.24	3.30	3.38	3.00	3.25	3.77½	3.10	3.25	3.25
Steel pipe, black, 2½ to 6 in. lap, discount	48%	54%	53.6%	55%	54.25%	36%	35.6@49.2%	45%	37.83
Cast-iron pipe, 6 in. and over, ton	51.60@53.60	45.30	54.00	49.20@50.20	53.00	64.00	52.00	55.00	55.00
Concreting Material									
Cement without bags, bbl.	2.50@2.60	2.35	2.05	2.10	2.32	2.85	2.31	2.65	1.15
Gravel, ¾ in., cu.yd.	1.75	1.90	2.38	1.60	1.65	1.90	1.80	1.50	1.50
Sand, cu.yd.	1.00	1.60	2.00	1.40	1.25	1.00	1.40	1.50	1.25
Crushed stone, ¾ in., cu.yd.	1.85	2.50	2.83	1.87½	1.75	2.50	1.80	3.00	1.70
Miscellaneous									
Pine, 3x12 to 12x12, 20 ft. and under, M.ft.	62.00	34.00	56.00	41.00	39.00@39.75	34.75	27.00	—23.00	55.00
Lime, finishing, hydrated, ton	18.20	23.50	20.00	20.00	25.50	24.00	22.00	24.00	21.00
Lime, common, lump, per bbl.	2.25@2.75	1.50	1.85	2.25	1.60@1.70	2.70	1.60	2.80	10.00
Common brick, delivered, 1,000	20.40	10.50	14.10	12.00	—13.75	12.00	15.00	15.00	17.50
Hollow building tile, 4x12x12, per block	Not used	.0895	.112	.075	.076	.075	.....	.09	.12
Hollow partition tile 4x12x12, per block	.1112	.0895	.112	.075	.076	.075	.108	.09	.10
Linseed oil, raw, 5 bbl. lots, gal.	.89¼	+.96¾	1.13	+.94	+.99¾	+1.13	.97	1.12	1.03
Common Labor									
Common labor, union, hour	.90⅝	.30	.....	.87½	.....	.50@.55	.55	.62½	.....
Common labor, non-union, hour	.....	.25	.30@.50	.82½	.45@.60	.40@.45	.50	.50	.30@.35

Explanation of Prices—Prices are to contractors in carload lots unless other quantities are specified. Increases or decreases from previous quotations are indicated by + or — signs. For steel pipe, the prevailing discount from list price is given; 45-5% means a discount of 45 and 5 per cent.

New York quotations delivered, except sand, gravel and crushed stone, alongside dock; common lump lime in 280-lb. bbl. net and hydrated lime, f.o.b. cars; tile "on trucks"; linseed oil and cast-iron pipe f.o.b.
Labor—Concrete laborers' rate, 93¾c.; building laborers, 90⅝c.

Chicago quotes hydrated lime in 50-lb. bags; common lump lime per 180-lb. net. Lumber, sand, gravel and stone f.o.b.; price on fir is quoted instead of pine.

Minneapolis quotes on fir instead of pine. Brick, sand and hollow tile delivered. Cement on cars. Gravel and crushed stone quoted at pit. Common labor not organized.

THIS limited price list is published weekly for the purpose of giving current prices on the principal construction materials, and of noting important price changes on the less important materials. Moreover, only the chief cities are quoted.

Valuable suggestions on costs of work can be had by noting actual biddings as reported in our Construction News section.

The first issue of each month carries complete quotations for all construction materials and for the important cities. The last complete list will be found in the issue of June 3 the next on July 1.

Denver quotes on fir instead of pine. Cement "on tracks"; gravel and sand at pit; stone on cars; lime, brick, hollow tile and lumber on job. Tile price is at warehouse. Linseed oil, delivered in wooden bbl. Common lump lime per 180-lb. net.

Atlanta quotes sand, stone and gravel per ton instead of cu.yd. Common lump lime per 180-lb. net.

Dallas quotes lime per 180-lb. bbl. Steel, cement, cast-iron pipe and crushed stone f.o.b. cars, other materials delivered.

San Francisco quotes on Heath tile, size 5½ x 8 x 11½. Prices are all f.o.b. warehouses except C.-I. pipe, which is mill price plus freight to railway depot at any terminal. Common lump lime per 180-lb. net. Lumber prices are to dealers in yards at San Francisco, for No. 1 fir, common.

Seattle quotes on Douglas fir (delivered) instead of pine. Lump finishing lime per 180-lb. net. Brick and hollow building tile delivered. Hydrated lime in paper sacks. Sand and gravel at bunkers.

Montreal quotes on fir lumber. Sand, stone, gravel and lump lime per ton. Stone and tile are delivered; sand, gravel, lime and cement on siding; brick f.o.b. plant; steel and pipe at warehouse. Hollow tile per ft. Cement price is in Canadian funds (the Canadian dollar stands at 100.156). Bag charge is 80c. per bbl. Discount of 10c. per bbl. for payment within 20 days from date of shipment. Steel pipe per 100 ft. net; 2½ in., $37.83.

Business Briefs

Call money quoted at 4¼ per cent, June 22; year ago 4½ per cent.

Time loans: Sixty-ninety days, 4⅛; four-six months, 4¼ per cent.

Commercial paper: Best names 4 per cent; other names, 4¼ per cent.

On June 1, 1926

E. N.-R. Construction Cost Index Number 204.80

E. N.-R. Construction Volume Index Number 254

For Explanation and Details of Indexes Since 1913 See the First Issue of Every Month

CONSTRUCTION NEWS

Engineering News-Record, Jan. 7, 1926

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Hospital buildings, Los Angeles, Calif., Bd. Supervs., Los Angeles Co., had plans prepared, first unit, $5,750,000.

Refinery and warehouse, Brooklyn, N. Y., American Sugar Refining Co. plans building, $5,000,000.

Hotel, New York, N. Y., Hotel Properties, Inc., having plans prepared, $2,500,000.

Hotel, Miami Beach, Fla., G. R. K. Carter, pres., having plans prepared, $[illegible],500,000.

Office, Brooklyn, N. Y., Montague-Court Corp. having plans prepared, $2,350,000.

Courthouse, Newark, N. J., Essex Bd. Freeholders, having plans prepared, $2,100,000.

Hydro-Electric plant, Sand Springs, Okla., C. Page plans plant, $2,000,000.

Club and hotel, Miami, Fla., All States Society Assn. having plans prepared, $2,000,000.

Cotton mill, Kannapolis, N. C., Cannon Mfg. Co. plans mill, $2,000,000.

Hotel, St. Louis, Mo., H. J. Rush having preliminary plans prepared, $2,000,000.

Hospital and nurses home, New York, N. Y., Lincoln Hospital having plans prepared, $1,750,000.

Theatre, store and office, Los Angeles, Calif., Warner Bros. had plans prepared, $1,500,000.

Apartment, Chicago, Ill., M. S. Plotke having plans prepared, $1,500,000.

Bids Wanted On Big Jobs

Factory, Port Ivory, N. Y., Proctor & Gamble soon takes bids, $3,000,000.

Theatre, San Antonio, Tex., Famous Players-Lasky Corp., about Jan. 20, $1,500,000.

Dormitories, Totowa, N. J., Jan. 12, B. G. Lewis, Comr., $1,000,000.

Jail, Jersey City, N. J., Jan. 28, Bd. Freeholders, Hudson Co., $1,000,000.

Large Contracts Let During Week

Irrigation work, Mexico City, Mexico, Mexican government to J. G. White Eng. Corp., N. Y. C., $30,000,000.

Sewage treatment plant, Cleveland, O., to Mellon-Stuart Co., Pittsburgh, Pa., $2,659,211.

Office, Detroit, Mich., A. Kahn, archt., to H. G. Christman Co., $2,500,000.

Cement plant, St. Stephens, Ala., Santa Rosa Portland Cement Co., to H. K. Ferguson Co., Cleveland, O., $2,500,000.

Storm drain, Los Angeles, Calif., Bd. Pub. Wks. to P. R. Gadd, $2,324,000.

PROPOSALS

Bids Close		See Eng. News-Record
	WATERWORKS	
Jan. 12	Toronto, Ont.	Nov. 12
Jan. 12	Yorkville, O.	Dec. 17
Jan. 12	Long Island City, N. Y.	Jan. 7
Jan. 12	St. George, N. Y.	Jan. 7
Jan. 15	Kinston, N. C.	Dec. 31
Jan. 15	Ft. Lauderdale, Fla. Adv. Dec. 24 to Jan. 7.	Dec. 31
Jan. 16	Auburn, N. Y.	Dec. 17
Jan. 18	Vineland, N. J.	Jan. 7
Jan. 18	St. Paul, Minn.	Jan. 7
Jan. 21	Auckland, New Zealand	Nov. 26
Jan. 21	Port Arthur, Tex.	Jan. 7
Jan. 25	Towson, Md. Adv. Jan. 7.	Jan. 7
Jan. 26	Warsaw, Ill.	Dec. 17
	SEWERS	
Jan. 13	Detroit, Mich.	Jan. 7
Jan. 13	Baltimore, Md.	Jan. 7
Jan. 15	Astoria, Ore.	Jan. 7
Jan. 25	Miami, Fla. Adv. Jan. 7.	Jan. 7
Jan. 26	Montgomery, Ala. Adv. Dec. 31 and Jan. 7.	Dec. 31
Jan. 29	Sikeston, Mo. Adv. Jan. 7.	Jan. 7
Jan. 28	Akron, O.	Dec. 24
Feb. 2	Springfield, Ill. Adv. Jan. 7.	Jan. 7
Mar. 10	Waco, Tex.	Jan. 7
	BRIDGES	
Jan. 15	Eureka, Kan.	Jan. 7
Jan. 16	Eldorado, Kan.	Jan. 7
Jan. 18	Arizona	Dec. 24
Jan. 18	Texas-Oklahoma Adv. Dec. 24 to Jan. 7.	Dec. 24
Jan. 19	Detroit, Mich.	Jan. 7
Jan. 28	Elkhart, Ind.	Dec. 31
Jan. 28	Goshen, Ind.	Dec. 31
Feb. 3	San Antonio, Tex.	Jan. 7
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES RIVER AND HARBOR	
Jan. 11	Detroit, Mich.	Jan. 7
Jan. 12	Buffalo, N. Y.	Dec. 24
Jan. 13	Minneapolis, Minn.	Dec. 31
Jan. 27	Ft. Pierce, Fla. Adv. Dec. 24 to Jan. 7.	Dec. 24
	STREETS AND ROADS	
Jan. 8	St. Etienne, Que.	Dec. 31
Jan. 13	Jackson, Miss.	Jan. 7
Jan. 14	Waynesboro, Miss.	Jan. 7
Jan. 15	South Boundbrook, N. J.	Jan. 7
Jan. 16	Princeton, W. Va.	Jan. 7
Jan. 18	California	Jan. 7
Jan. 19	Omaha, Neb.	Jan. 7
Jan. 20	Birmingham, Ala.	Dec. 24
Jan. 20	Buckhannon, W. Va.	Jan. 7
Jan. 20	Osceola, Ark. Adv. Jan. 7.	Jan. 7
Jan. 22	Beckley, W. Va	Jan. 7
Jan. 25	Miami, Fla. Adv. Jan. 7.	Jan. 7
Jan. 26	St. Louis, Mo.	Dec. 31
Jan. 26	Louisiana	Jan. 7
Feb. 5	Pennsylvania Adv. Jan. 7.	Dec. 31
Feb. 6	Pennsylvania Adv. Jan. 7.	Dec. 31
Feb. 8	Kentucky	Jan. 7
Mar. 1	Indiana	Jan. 7
	BUILDINGS—INDUSTRIAL	
Jan. 13	Wooster, O.	Dec. 31
Jan. 28	Ft. Worth, Tex.	Dec. 31
	BUILDINGS—COMMERCIAL	
Jan. 10	Duluth, Minn.	Oct. 29
Jan. 12	Jacksonville Beach, Fla.	Jan. 7
Jan. 12	Phila., Pa.	Jan. 7
Jan. 12	Baltimore, Md.	Jan. 7
Jan. 14	Baltimore, Md.	Jan. 7
Jan. 15	Tulsa, Okla.	Dec. 31
Jan. 15	Milwaukee, Wis.	Jan. 7
Jan. 15	Mason City, Ia.	Jan. 7
Jan. 18	Walters, Okla.	Dec. 31
Jan. 20	Cleveland, O.	Jan. 7
Jan. 20	Indianapolis, Ind.	Jan. 7
Jan. 26	Redfield, S. D.	Jan. 7
Jan. 28	Jersey City, N. J.	Jan. 7
Mar. 1	Duluth, Minn.	Jan. 7
Apr. 1	Youngstown, O.	Dec. 31
	BUILDINGS—EDUCATIONAL, RELIGIOUS	
Jan. 8	Phila., Pa.	Jan. 7
Jan. 8	Baltimore, Md.	Jan. 7
Jan. 10	Muncie, Ind.	Dec. 17
Jan. 11	Johnstown, Pa.	Dec. 3
Jan. 11	Johnstown, Pa.	Dec. 17
Jan. 12	Totowa (mail Paterson), N. J.	Jan. 7
Jan. 12	Wash., D. C.	Jan. 7
Jan. 13	Van Nuys, Calif.	Jan. 7
Jan. 18	Cleveland, O.	Jan. 7
Jan. 19	Miami Beach, Fla.	Dec. 31
Jan. 19	Coral Gables, Fla.	Dec. 31
Jan. 19	Miami, Fla.	Dec. 31
Jan. 20	San Francisco, Calif.	Dec. 31
Jan. 22	Muncie, Ind.	Jan. 7
Jan. 28	Lincoln, Neb.	Dec. 31
Feb. 1	Terre Haute, Ind.	Jan. 7
Feb. 2	Lincoln, Neb.	Jan. 7
Feb. 24	Williamsport, Pa.	Jan. 7
Feb. 27	Duluth, Minn.	Dec. 17
	FEDERAL GOVERNMENT WORK	
Jan. 11	Post Office—Janesville, Wis.	Dec. 17
Jan. 11	Buoys—St. George, N. Y.	Jan. 7
Jan. 13	Dock—Wash., D. C.	Jan. 7
Jan. 14	Roads—Oregon	Jan. 7
Jan. 18	Hospital—Soldiers Home (br. Sawtelle P. O.), Calif.	Nov. 26
Jan. 19	Scows—Louisville, Ky. Adv. Dec. 24 to Jan. 7.	Dec. 24
Jan. 19	Steel—Milwaukee, Wis. Adv. Dec. 31 and Jan. 7.	Dec. 31
Jan. 20	Dredging—Mare Island, Calif.	Jan. 7
Jan. 22	Lime—Louisville, Ky. Adv. Dec. 24 to Jan. 7.	Dec. 31
Jan. 23	Office—Miami, Fla.	Jan. 7
Jan. 26	Hospital—Ft. Snelling (br. St. Paul), Minn.	Dec. 17
Jan. 27	Recreation—Tuskegee, Ala. Adv. Jan. 7.	Jan. 7
Jan. 28	Barges—Savannah, Ga. Adv. Jan. 7.	Jan. 7
Feb. 1	Dam—Louisville, Ky. Adv. Dec. 24 to Jan. 7.	Dec. 24
Feb. 3	Pipe Masts—Panama, C. Z.	Jan. 7
Feb. 3	Dredging—Galveston, Tex. Adv. Jan. 7.	Jan. 7
Feb. 24	Administration—Pearl Harbor, T. H.	Jan. 7
Mar. 1	Cruiser—Wash., D. C.	Dec. 31
	UNCLASSIFIED	
Jan. 8	Swimming Pool—North Tonawanda, N. Y.	Jan. 7
Jan. 11	Subway—New York, N. Y.	Dec. 31
Jan. 12	Stadium—Johnstown, Pa.	Dec. 17
Jan. 19	Retaining Wall—Cedar Rapids, Ia.	Dec. 24
Jan. 26	Circuit Breakers, etc.—Wellington, New Zealand	Nov. 26
Jan. 26	Heating, etc. — Ithaca, N. Y. Adv. Dec. 31 and Jan. 7.	Dec. 31
Jan. 26	Subway—New York, N. Y.	Jan. 7
Jan. 29	Subway—New York, N. Y.	Jan. 7
Feb. 5	Subway—New York, N. Y.	Jan. 7
Feb. 10	Coal Handling Plants—Melbourne, Australia	Dec. 17

See proposal advertisements on page 220, Advertising Section.

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Good Pipe Joints

Has it occurred to you why so many water works men are using Leadite for making joints in all sizes of cast iron water mains?

There are many sound reasons.

The most important reason is that experience has proven Leadite joints are good joints and improve with age.

The other reasons relate to saving in the cost of material and labor.

Leadite facilitates rapid completion of the work.

Leadite saves money from every angle of pipe laying.

Anyone can make Leadite joints; Leadite is very easy and simple to handle.

Yarn the joint, pour it full of molten Leadite, and the joint is finished.

If you have never tried Leadite, do not pass up a good thing without investigating it.

Give Leadite a trial.

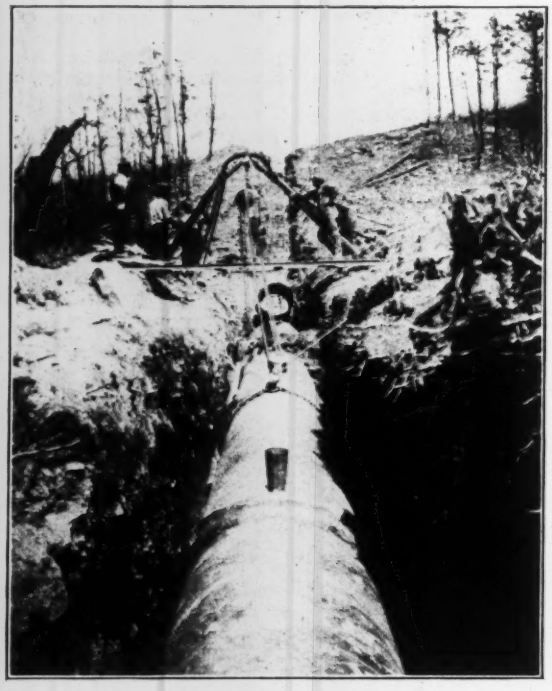
Leadite resists electrolysis.

Leadite does not corrode or rust.

Leadite has been successfully tested and used for over 30 years.

Thousands of miles of pipe jointed with Leadite are in service.

The up-to-date water works man specifies and uses LEADITE.



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Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1511 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids Close		See Eng. News-Record
Feb. 10	Foundation—Indianapolis, Ind.	Jan. 7
Feb. 16	Circuit Breakers—Auckland, New Zealand	Dec. 10

MATERIALS

Jan. 12	Paving Blocks, etc.—Toronto, Ont.	Jan. 7
Jan. 12	Pipe—Toronto, Ont.	Jan. 7
Jan. 25	Road Oils—Niles City, Mont.	Jan. 7

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Lowell — Plans new waterworks. $100,000. S. Keerney, city engr.

N. Y., Woodlawn (Sta. Buffalo)—Western New York Water Co., Electric Bldg., Buffalo, making plans 16 m.g. p.d. filtration plant, 1 m.g. stand pipe, distribution mains, etc., here. To exceed $200,000.

N. C., Hickory — Western Power Co. granted permission to City to construct waterworks plant, on Catawba River, which is controlled by them. $100,000.

Fla., Homestead—Made plans 20 mi. 6 and 8 in. c.i. mains in various streets. $300,000. C. W. Murray, consult. engr.

Fla., Miami Beach — Voted $750,000 bonds, waterworks.

Miss., Okolona — City takes bids on or before Feb. 5, 100,000 gal. steel standpipe, on 125 ft. steel tower. A. C. Rowe, city clk.

O., Avon Lake—Bd. Comrs. Lorain Co. (Elyria) made plans and soon take bids mains in Sewer Dist. 1. $250,000. G. B. Gascoigne, Leader-News Bldg., Cleveland, engr.

O., Cincinnati—Hamilton Co. plans 6,700 ft. 4 and 6 in. c.i. mains, etc. in Water Supply Line 32, Dist. 1, Brockwell Park Sub-division. $15,010. L. C. Boyatt, Court House, engr.

Ill., Collinsville—Plans election in January, $40,000 bonds, repairing and improving waterworks, incl. 14 in. additional main from Jefferson Ave. to water tower, etc.

Wis., Racine—Water Dept., F. M. McElroy, mgr., soon takes bids c.i. mains, pig lead, specials, curb boxes, curb cocks, etc.

Kan., Eldorado — Defeated $400,000 bonds, for reservoir, gravity flow line, etc. Will probably resubmit soon. Black & Veatch, Mutual Bldg., Kansas City, engrs. Noted Oct. 15.

Kan., Lenexa—Election Jan. 12, $42,000 bonds, new waterworks. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs. Noted Sept. 3.

Neb., Dawson — Soon takes bids 35,000 gal. tank for waterworks. $22,000 bonds voted. Noted Dec. 17.

Mo., St. Louis—Soon takes bids rein.-con., rubblestone and cut stone filtration plant of 20 units, 80 m.g. daily capacity, piping, etc., at Howard's Bend Waterworks Plant on Missouri River. $1,225,000. E. E. Wall, City Hall, dir. Noted Oct. 8.

Ark., Searcy—Making preliminary plans new mechanical filter plant, pipe line, pumps and wash water tank. $70,000. C. W. Watson, city supt. Engineer not announced. Noted July 23.

Tex., Amarillo—Making plans 3,000,000,-000 gal. storage reservoir, 15 mi. south west of here, 12 in. concrete flow line, 5 m.g. rein.-con. distributing reservoir, 6 shallow wells, six 1,000 g.p.m. deep well and two 3,000 g.p.m. horizontal pumps, Chicago or Des Moines, 500,000 gal. tank on 100 ft. tower. $1,750, 00. Kiersted & Stringfellow, 611 Interstate Bldg., Kansas City, Mo., engrs. H. B. Jones, city engr. Noted Mar. 19.

Tex., Canyon—Election Jan. 11, $15,000 bonds, additional mains, pumping equipment, etc. C. M. Harrison, mayor.

Tex., Nacogdoches—Election soon $45,000 bonds, waterworks improvements. Address W. I. Baker, mayor.

Tex., Toyahvale—Koch & Fowler, engrs., Central Bank Bldg., Dallas, making plans complete waterworks and sewerage systems and disposal plant, here, for Timber Mts. Development Corp., c/o L. I. Starling, pres., 301 Fidelity Union Bldg., Dallas. $50,000.

Okla., Davenport—Election Jan. 6, $25,-000 bonds, waterworks extensions, incl. 8,860 ft. 4 and 6 in. c.i. mains, well, pump, fire pump and equipment, etc. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs.

Okla., Sperry—City Council making plans new waterworks. $40,000. Engineer not selected.

Calif., Inglewood — Defeated $65,000 bonds, extending waterworks. Noted Nov. 19.

Calif., Riverside—Making plans approximately 8 mi. 42 in. pipe line for water supply. L. Nafzger, city engr.

BIDS DESIRED

N. Y., Long Island City—Jan. 12, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains Douglaston Parkway, Winchester Blvd., Braddock, Jamaica, and East Williston Aves., 255th St., Bee and Little Neck Rds., here.

N. Y., St. George — Jan. 12, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Beach, Bryant, Carlton, Cromwell, Fiedler, Fremont, Greeley, Kingsley Sts., here. Former bids withdrawn. Noted Dec. 17.

N. J., Vineland—Jan. 18, by Bd. Institutions & Agencies, Trenton, B. G. Lewis, comr., 50,000 gal. steel water tank and tower, at New Jersey Home for Feeble Minded, here. A. B. Mill, State Office Bldg., Trenton, engr.

Md., Towson — Jan. 4, by Comrs. Baltimore Co., Court House, mains, etc. as listed in Proposal 9-W, in Metropolitan Dist. A. E. Walden, ch. engr.

Fla., Ft. Lauderdale—Davenport & Rich taking bids 18 mi. 2- to 16-in. c.i. mains, etc., in Westwood Heights sub-division. $120,000. City appropriates $40,000 toward cost. J. H. Rhein, Ft. Lauderdale, engr.

Mich., Detroit—Dept. Pub. Wks., G. H. Fenkell, genl. mgr., taking bids 6- to 36-in. c.i. mains; adv. E. N.-R. Jan. 7.

Minn., St. Paul—Jan. 18, by C. J. Ries aud. Ramsey Co., 2 tubular wells for pumping water into Lakes Josephine and Gervais. Plans later pump houses and pumping equipment.

Tex., Abilene — City Comn. taking new bids waterworks settling basin. $18,000. Former bids rejected. O. K. Hobbs, city engr. E. P. Shoch, c/o State University, Austin, consult. engr. Noted Dec. 10.

Tex., Port Arthur — Jan. 21, by City Comrs., City Hall, water purification plant. Former bids rejected. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs. Noted Dec. 31.

BIDS RECEIVED

Wis., Milwaukee—Central Bd. Purchases, Dec. 30, couplings, meter, corporation and curb cocks, from Mueller Mfg. Co., Decatur, Ill., $12,344; 500 fire hydrants, from R. D. Wood & Co., 400 Chestnut St., Phila., Pa., $39,860; stop cock boxes, covers, top sections, bases and middle sections, from W. P. Taylor Co., 218 Ellicott Bldg., Buffalo, N. Y., $6,112; gate and tapping valves, from Chapman Valve Mfg. Co., 650 West Lake St., Chicago, Ill., $31,130; 45,000 lb. liquid chlorine, from Pennsylvania Salt Mfg. Co., 1000 Widner Bldg., Phila., Pa., $4,156, all for Water Dept.

Tex., Kemp—Waterworks and sewers in various streets, from W. H. Cramer, 3710 Oak Grove St., Dallas, $59,627; surface reservoir for same, from W. P. O'Connor, Preston Rd., Dallas, $22,400. Noted Dec. 17.

CONTRACTS AWARDED

N. J., Belmar — City Council, c.i. mains, etc. along D St. between 5th and 15th Sts., to J. T. Smith, Spring Lake, $69,078.

Mich., Detroit — Dept. Water Supply, 198,200 lin.ft. 6 in. and 240,200 lin.ft. 8 in. centrifugal pipe f.o.b. Detroit, to United States Cast Iron Pipe & Fdry. Co., Pearl St., Burlington, N. J., $0.72 and $1.02 per lin.ft. respectively; 2,000 tons 12 in. Class "C" c.i. pipe to Lynchburg Fdry. Co., Peoples Bank Bldg., Lynchburg, Va., $45.30 per ton; 2,000 tons 12 in. and 4,000 tons 16 in. class "C" c.i. pipe, to B. Nicholl & Co., 294 Madison Ave., New York City, N. Y., $45.32 and $45.12 respectively.

Kan., Wellington—Waterworks, to Panhandle Constr. Co., Lubbock, approximately $370,000.

Neb., Grand Island—H. E. Clifford, city clk., two 700 hp. water tube boilers, 2 mechanical stokers, etc., to Kent Eng. Co., 423 South 5th St., Minneapolis, Minn. $57,-600. Noted Dec. 3.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, 170 tons 12 in. c.i. pipe, to Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, Ala., at $47.60 per ton; 233 tons special castings, to G. J. Fritz Fdry. & Mchy. Co., 2018 South 3rd St. at $77.50 per ton; 400 fire hydrants and 465 valves and boxes, etc., to Amer. Fdry. & Mchy. Co., 11th and Hebert Sts., $43.58 each and $16,124 respectively; standard guage railroad with switch tracks, etc., at Howards Bend, St. Louis Co., to E. C. Bowman, Hall and Breman Aves., $12,517. Noted Dec. 24.

Mo., Senath—City Clerk, 75,000 gal. tank on tower, pump house, 2 deep wells with turbines, also sewage disposal plant and 3.4 mi. 8- and 12-in. vitr. clay sewers, etc., to Queal Constr. Co., Mayfield, Ky. Engrs. est. $65,000. Noted Dec. 17.

Ark., Hot Springs — Hot Springs Pub. Utilities Co., 200 m.g. convex type rein.-con. reservoir, 330 ft. long, 53 ft. high and 33 ft. wide at bottom, to Sanderson & Porter, 72 West Adams St., Chicago, Ill.

Ark., Paris—Comrs. Waterworks Impvt. Dist. 4, 360,000 gal. capacity filter plant 56 x 56 x 11 ft. rein.-con. settling basin, etc., to Pioneer Constr. Co., New York Life Bldg., Kansas City, Mo., $47,832. Noted Dec. 3.

Tex., Abilene—Cast iron pipe, to Amer. Cast Iron Pipe Co., Praetorian Bldg., Dallas, $56,304.

Tex., Ft. Worth—To U. S. Cast Iron Pipe & Fdry. Co., Magnolia Bldg., Dallas, 6 in. De Lavaud pipe, $173,883, 8 in. $53,146, and 10 in. $26,820; to Amer. Cast Iron Pipe Co., Praetorian Bldg., Dallas, 12 in. Class "B" or De Lavaud pipe $9,648 and 20 in. $62,816; to Barney Smith Mchy. Co., Joseph Bldg., Dallas, 6 in. Vogt valves, $9,408; to Rensselaer Valve Co., Dallas, Corey fire hydrants, $32,368. Grand total $358,441. Noted Dec. 24.

Tex., Frost—W. Smith, mayor, pipe line for waterworks improvements, to Municipal Excavator Co., 800 North Crawford St., Dallas, $29,463. Noted Dec. 31.

Tex., Port Arthur — City, J. P. Logan, mayor, centrifugal pumps for filtration plant, Contr. 3, to Allis Chalmers Mfg. Co., Maison Blanche Bldg., New Orleans, La., $14,375; filter equipment, Contr. 2, to Robert Filter Mfg. Co., Darby, Pa., $29,-770. Noted Dec. 31.

Tex., Wellington — C. C. Small, mayor, waterworks extensions, incl. 14,080 universal and 18,975 ft. 6- to 10-in. c.i. pipe, etc., to Panhandle Constr. Co., Lubbock, $43,-159. Noted Oct. 1.

Okla., Tulsa — Water Impvt. Dist. 5 of Tulsa Co., 25 mi. 4- to 10-in. Class 150 De Lavaud c.i. mains, to H. L. Cannady & Co., 1122 South Lewis St., $151,500. Noted Dec. 3.

Okla., Turley—City, Waterworks Impvt. Dist. 3, 4 and 6 in. c.i. pipe, to L. G. James, Vinita, $32,846.

Sewers

PROPOSED WORK

Conn., New Britain—Making plans 6- to 12-in. sewers in Maple Hill Section. $100,-000. L. A. Oldershaw, 259 Main St., engr.

N. Y., Akron—Soon takes bids sewerage system. To exceed $100,000.

N. C., Salisbury—See "Unclassified."

Fla., Clearwater — See "Streets and Roads."

Fla., Homestead—Made plans 20 mi. 8- to 24-in. vitr. sewers in various streets. $350,000. C. W. Murray, consult. engr.

Fla., Miami—Plans sewers in Miami Rd., Southwest 1st Ave., 8th, 9th, 10th, 11th and 12th Sts., 1,100 ft. 54 x 30 in., 355 ft. 42 x 30 in., 350 ft. 36 x 30 in., 650 ft. 36 x 24 in., 320 ft. 34 x 24 in., 350 ft. 28 x 18 in., 655 ft. 28 x 15 in., 325 ft. 24 x 18 in. and 640 ft. 24 x 15 in. concrete sewer (rectangular section), 2,160 ft. 12- to 24-in. vitr. pipe, etc., $90,000; in Southwest 8th St., Southwest 3rd, 2nd and 1st Aves., 700 ft. 24 x 42 in., 700 ft. 30 x 24 in., 450 ft. 42 x 48 in., and 550 ft. 28 x 18 in. concrete sewer (rectangular section), 3,500 ft. 12- to 24-in. vitr. pipe, etc., $75,000. C. S. Nichols, Highland Park, Miami, engr.

Fla., Miami — Soon takes bids storm sewer, 1st St. between 2nd Ave., 1st, 2nd and 3rd Sts., in Bay Shore Dist. (downtown), 800 ft. 72 x 42 in. rein.-con., and 1,100 ft. 72 x 36 in. vitr. clay pipe, etc. $90,000. C. S. Nichols, Miami, engr.

Fla., Miami Beach—Voted $430,000 bonds, sanitary sewers and $805,000 bonds storm sewer in various streets.

O., Cincinnati—Hamilton Co. plans sanitary sewers in Sewer 16, Dist. 1, Brockwell Park Subdivision, 10,041 ft. 6- to 10 in. vitr. clay and 1,525 ft. 8 in. c.i. pipe, 13 manholes, etc. $31,644. L. C. Boyatt, Court House, engr.

Mich., Detroit—Dept. Pub. Wks. making plans 30,000 lin.ft. 10 ft. cylinder in Emerson Rd. from River Rouge south of Michigan Ave. to Schoolcraft Ave., $1,800,-000; 5,200 lin.ft. 12½ ft. in Emerson Rd. from Schoolcraft Ave. to Grand River,

See proposal advertisements on page 220, Advertising Section.

PUBLIC officials are judged by the amount and kind of work they do and its cost to the taxpayers.

Those having to do with roads, streets and alleys are blessed or cursed as the pavements they build endure or perish.

Are you building your reputation on good concrete?

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland New York

Concrete for Permanence

Sewers (Continued)

$442,000; 2,800 lin.ft. 12½ ft. in Emerson Rd. from Grand River to Puritan Ave., $210,000; 5,300 lin.ft. 13½ ft. Hubbell Ave. Sewer, in Hubbell Ave. from Plymouth to Schoolcraft Aves. $450,000; 2,600 lin.ft. 10½ ft. in Hubbell Ave. from Fenkell to Puritan Aves., $156,000; 2,700 ft. 5 ft. Grand Ave. Sewer, in Grand Ave. from Berg to Lasher Rds., $56,000; 6,200 ft. 8 to 12 ft. in Grand River Ave. from Lasher to Evergreen Rds., $341,000; 6,000 ft. 12 ft. in Grand River Ave. from Evergreen to Emerson Rds., $432,000; 2,600 ft. 11½ ft. Lasher-Lamphere Sewer in Lasher Ave. from Curtis to Grand River Aves., $176,000; 2,600 ft. 5- to 7-ft. in Lamphere Ave. from Miller to Grand River Aves., $55,000; 2,600 ft. 10 ft. Evergreen Rd. Sewer in Evergreen Rd. from Curtis Ave. to Six Mile Rd., $146,000; 2,600 lin.ft. 11 ft., in Evergreen Rd. from Six Mile Rd. to Grand River Ave., $177,000; 5,200 ft. 5 to 7½ ft. Puritan Ave. Sewer, in Puritan Ave. from Hubbell to Meyers Rd., $156,000; 4,900 ft. Puritan Ave. Sewer, 5, 6 and 7 ft. cylinder, in Puritan Ave. from Emerson to Hubbell Aves., $135,000; 3,600 ft. in Puritan Ave. from Forrer to Hubbell Aves. $76,000, 2,600 ft. Curtis Ave. Sewer in Curtis Ave. from Monnier to Meyers Aves. $55,000 2,600 ft. in Curtis Ave. from Meyers to Wyoming Aves. $55,000, 2,600 ft. Lyndon Ave. Sewer in Lyndon Ave. from Rosedale to Emerson Rds. $55,000, 3,500 ft. Fullerton Ave. Sewer, in Fullerton Ave. from Emerson to Rutherford Rds. $74,000, 2,500 ft. Fullerton Ave. from Greenfield to Hubbell Aves. $52,000, 4,000 ft. in Fullerton Ave. from Hubbell to Wells Sts. $84,000, 2,500 lin.ft. Plymouth Rd. Sewer in Plymouth Rd. from Greenfield to Hubbell Aves. $53,000, 2,600 ft. Bonaparte Ave. Sewer in Bonaparte Ave. from Monnier to Meyers Aves. $55,000, 4,000 lin.ft. in Bonaparte Ave. from Emerson to Marden Aves. $84,000, 5,300 ft. Warren Ave. Sewer in Warren Ave. from Evergreen to Emerson Aves. $111,000, 5,200 ft. in Warren Ave. from Emerson to Greenfield Aves., $110,000, all foregoing 5 to 7 ft. cylinder; 5,300 ft. Plymouth Rd. Sewer in Plymouth Rd. from Emerson to Greenfield Aves., 5,300 ft. in Plymouth Rd. from Hubbell to Myers Aves. and 5,300 ft. Chicago Blvd. Sewer in Chicago Blvd. from Emerson to Greenfield Aves., all foregoing 5 to 7½ ft., $122,000 each; 3,000 lin.ft. in Chicago Blvd. from Clement to Emerson Aves. $60,000, 3,000 ft. Tireman Ave. Sewer from Clements to Emerson Aves. $60,000, and 1,100 ft. Warren Ave. Sewer in Kensington Ave. from Richardson to Warren Aves., $22,000, all foregoing 5 to 6½ ft.; 4,500 ft. Parkwood Ave. Sewer in Parkwood Ave. from Lonyo to Martin Aves., and 4,500 ft. McGraw Ave. Sewer in McGraw Ave. from Lonyo to Martin Aves., both 5½ to 7½ ft., $135,000 each. P. A. Fellows, city engr.

Ill., East St. Louis—See "Streets and Roads."

Wis., Milwaukee—R. E. Stoelting, comr. Pub. Wks., plans election in April, $2,235,000 bonds sewers in various streets. J. W. Schwada, City Hall, engr.

Wis., West Allis—A. Wichner, supt. Pub. Wks., takes bids in spring concrete or vitr. storm sewers in 2nd, 3rd and 4th Wards. $40,000. W. Darby, City Hall, engr.

Kan., Topeka — Takes bids probably in February sewage disposal plant; and plans 3 disposal plants later. C. A. Haskins, 822 Finance Bldg., Kansas City, Mo., engr.

Kan., Topeka — Takes bids in January, 26 blocks intercepting sewers and 12 mi. sanitary sewers in North Topeka Dist. W. E. Baldry, City Hall, engr.

Mo., St. Louis—See "Streets and Roads."

Mo., St. Louis—Making preliminary plans sewers in Glaise Creek Dists. 25 and 26. $5,600 and $70,000 respectively. W. W. Horner, 300 City Hall, engr.

Tex., Alice — Election Jan. 21, $50,000 bonds sewerage system. J. H. Briggs, Alice, engr. Noted Dec. 31.

Tex., Waco — Making plans and takes bids about Mar. 15, activated sludge type sewage disposal plant. $225,000. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs. Noted Oct. 29.

Tex., Wellington—Voted $45,000 bonds, sanitary sewers in all streets. Engineer not selected. Noted Dec. 10.

Calif., Brea—Making plans sewer collection system in various streets. To exceed $50,000. W. W. Hoy, 1st Natl. Bank Bldg., Santa Ana, engr.

Calif., Chula Vista—Plans election $40,000 or more bonds, sewerage system.

Calif., Inglewood — Defeated $250,000 bonds, sanitary sewerage system. Noted Nov. 19.

Calif., San Bernardino — Making plans Southwest Storm Sewerage System, 6,851 ft. rein.-con. pipe and concrete paving, etc. To exceed $25,000. C. E. Johnson, city engr.

Ont., Toronto—East York Twp. making plans rein.-con. sewage disposal plant for Woodbine Dist. $120,000. G. R. Jack, 443 Sammon Ave., engr.

BIDS DESIRED

Md., Baltimore—Jan. 13, by Bd. Awards, storm and sanitary sewers in Sewer Dist. J-4, as listed in Storm Water Contr. 90, 1,330 lin.ft. brick and concrete and 1,375 lin.ft. rein.-con. pipe drain, both 48 in.; 6,400 lin.ft. 10- to 15-in. vitr. drain, and 5,000 lin.ft. 6 in. underdrain. M. J. Ruark, 311 Courtland Pl., sewerage engr.

Fla., Miami — Jan. 25, by City Comn., sanitary and storm sewers in Sewer Impvt. Dists. 146-A, 159,165 to 167 (inclusive) 168 to 179 (inclusive), 180, 181, 183 and 184; adv. E. N.-R. Jan. 7.

Ill., Springfield — Feb. 2, by Trustees Springfield Sanitary Dist., West Side Intercepting Sewers and Appurtenances, Divs. E, F, G, H and I. S. S. Breese, pres.; adv. E. N.-R. Jan. 7. Noted Dec. 31.

Mich., Detroit — Jan. 13, by Dept. Pub. Wks., constructing rein.-con. pump pit and suction well, with motors, electrical equipment, etc. at Lonyo Rd. Pumping Station, on Lonyo Rd. north of Dix Ave. P. A. Fellows, City Hall, engr. Noted Dec. 10.

Mo., Sikeston—Jan. 29, by C. E. Felker, mayor, approximately 12 mi. 8- to 15 in. sewers, 2 disposal plants, etc. Wilcox & Berthe, 924 Chemical Bldg., St. Louis, engrs.; adv. E. N.-R. Jan. 7.

Tex., Waco—Mar. 10, by V. G. Koch, city engr., activated sludge type sewage disposal plant, for City. $225,000.

Ore., Astoria—Jan. 15, by City Manager, 1,475 ft. 15- to 36-in. rein.-con., 9,805 ft. 6- to 21-in. vitr. clay and 350 ft. 21 in. corrugated iron sewers, etc. in Taylor Ave. and Bond St. $62,709. R. A. McClanathan, City Hall, engr.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Jan. 4, sewers in (1) Ericsson Ave. (2) North Conduit Ave. and storm sewer in (3) Metropolitan Ave., from Greenough Coppinger, 9301 86th St., Woodhaven, (1) $2,749; from Muccinni & Decker, 6102 18th Ave., Brooklyn, (2a) $92,540 and (3a) $50,220; from J. Gallo, 203 Division St., Brooklyn, (3b) $44,124; and from Kennedy & Smith, 93 Amity St., Flushing, (2b) $79,464. Noted Dec. 31.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Dec. 29, sewers in Truxton St., from M. Del Balso, 660 West 221st St., $17,930; in Wicham and Provost Aves., from F. Spedero, 3883 Taddington Ave. $6,403 and $4,236 respectively; in Hobart Ave. from Fiorello & Kock, 1895 Belmont Ave., $1,300; in East 251st St., from A. Spedero, 3883 Taddington Ave. $7,651. Noted Dec. 24.

N. C., Durham—City, 8- to 12-in. sewers in various streets, from Hughes-Keegan Co., Real Estate Exch. Bldg., Richmond, Va., $117,398. Noted Dec. 24.

O., Cleveland—Bd. Comrs. Cuyahoga Co., 3,500 ft. 8 and 36 in. sewers in Mayfield Rd. and Belrose Ave., from Joseph Co., Prospect-Fourth Bldg., segmental block $24,151, brick $24,431, and concrete $23,956. Noted Dec. 17.

Wis., Milwaukee — J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., Dec. 30, equipment for Mud Creek low level sewage booster station, from Yeomans Bros. Co., 1433 Dayton Ave., Chicago, Ill., $9,700. Noted Dec. 24.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., Dec. 30, 3rd section storm sewers in 26th St. between Prairie and Cherry Sts., also McKinley Blvd. and Cold Springs Ave. between 26th and 30th Sts., from Hoag & Rollins Co., 719 West Liberty St., Louisville, Ky. $286,826. Noted Dec. 24.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., Dec. 28, 1st section storm sewers in 26th St. and 26th St. extension from North Menomonee Canal to Grand Ave., from Wenzel & Henoch Constr. Co., 498 27th St., $332,198. Noted Dec. 24.

Calif., Glendale—From B. D. Zaich, 220 West 56th St., Los Angeles, 25,488 ft. 8 in. vitr. sewer $1.15 per ft., and 14,000 lin.ft. house sewers $0.99, etc., total approximately $50,000.

Calif., Long Beach—Sewer in Esther St. (Pump Dist. 8), 53,155 ft. 8 in. pipe and 16,777 ft. cement pipe, etc., from R. N. Nikcevich, 208 Roycroft Ave., $161,229. Noted Dec. 10.

Calif., San Diego—From DeWaard & Son, Granger Bldg., sewers in Ocean Beach and Pt. Loma Heights, 2,963 lin.ft. 8 in. cement pipe $1.20 per lin.ft. 7,270 lin.ft. 6 in. cement pipe $1.10 336 lin.ft. "B" flexible joint cast iron pipe 8 in. diam., etc. $7,996, total $25,905.

CONTRACTS AWARDED

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, **(e. e. means engineers estimate)**, sewer in Nostrand Ave., to Peconi Constr. Co., 170 18th St., 78% e. e. $13,143, in East 12th St., to Nazzaro & Guerriero, West 9th St., 70.94% e. e. $8,594, in Autumn and Sutter Aves., to R. Iovine, 62% e. e. $600, in East 14th St., and repairing sewer in Raymond St., to Manmill Constr. Co., 2035 Douglas St., 64% e. e. $4,844 and $4,240 respectively. Noted Dec. 31.

Pa., Overbrook (Phila. P. O.) — Boro Council, Saw Mill Trunk Sanitary Sewer, 10,200 ft. 33 and 36 in. rein.-con. pipe, etc., to R. H. Thomas, 332 Boquet St., Pittsburgh. Noted Nov. 19.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering main sewer in Rowland Ave. and discharge pipes in South East Sewage Pumping Station and Eagle Creek, to V. S. Campellone, 812 West Venango St., $6,767 and $3,000 respectively; intercepting sewer along Tacony Creek, to Municipal Paving Co., 702 Catharine St., $84,785; branch sewers in Coleman and Woolsten Sts., to J. J. McHugh, 1617 Race St. $2,031 and $4,886 respectively, 52nd St., to A. Mattia, 310 North 65th St. $2,935, Lebanon St., to F. S. Buckins, 4050 Kensington Ave. $5,000, and Sanger St., to McIntyre Constr. Co., 6811 North Franklin St. $1,702. Grand total $111,106. Noted Dec. 31.

N. C., Durham — For 70 siphons, to Pacific Flush Tank Co., 149 Bway., New York City, $1,750; 370 manhole covers and dust pans to Carolina Fdry. & Machine Co., Winston-Salem, $3,308; pipe, to Pomona Terra Cotta Co., Winston-Salem, $34,866. Grand total $39,924.

O., Cleveland—A. K. Hoare, comr. Purchases & Supplies, Southerly Sewage Treatment Plant, in East 49th St. and Canal Rd., (exclusive of covered sludge beds and intercepting sewer), 200,000 cu.ft. brick, 42,000 cu.yd. concrete, 200,000 cu.yd. excav., 2,000 tons reinforcing, 900 tons c.i. pipe, and 97,000 cu.yd. crushed stone, to Mellon-Stuart Co., Oliver Bldg., Pittsburgh, Pa., $2,659,211. Noted Nov. 12.

Mo., Senath—See "Waterworks."

Tex., Abilene—Sewers in various streets, to R. J. Estep & Co., Wilson Bldg., $31,037; sewer pipe, to San Antonio Sewer Pipe Wks., Bedell Bldg., San Antonio, $8,317. Noted Dec. 10.

Tex., Nacogdoches—J. Thackwell, engr., Lufkin, sewerage system and disposal plant, to E. L. Dalton, 319 Wilson Bldg., Dallas, $31,000. Engrs. est. $35,000. Noted Dec. 24.

Calif., Los Angeles—For North Outfall Sewer, Sect. 37, pre-cast concrete pipe, to G. W. Kemper, P. O. Box 156, Alhambra, $34,955.

Calif., Los Angeles — Constructing Boyle Heights Storm Drain 3, to Francisco & Ellington, 1250 West 5th St., $596,000. Noted Dec. 31.

Calif., Los Angeles—Bd. Pub. Wks., Dec. 23, 115,000 ft. Jefferson St. Storm Drain, to P. R. Gadd, Spring Arcade Bldg., $2,324,000. Noted Nov. 12.

Calif., Victorville — Directors Victorville Sanitary Dist., lateral sewers in various streets, to F. W. Secombe, San Bernardino, $29,950. Noted Dec. 24.

Ont., Forest Hill—Village, 4,500 ft. 45 in. concrete sewer in tunnel, to J. Maguire Contg. Co., Ltd., 196 Spadina Rd., Toronto, $55,000. Noted Dec. 10.

Ont., Toronto—East York Twp., 925 ft. 12 in. sewer in Gatwick Ave., to Murphy Contg. Co.; 8 Wychwood Park, 323 ft. 12 in. sewer in Frater Ave. and 410 ft. 12 in. in Woodbine Ave., to Mitchell Constr. Co., 55 Greenside Ave.; 300 ft. 24 in. and 1,080 ft. 27 in. in Gowan Ave. to Nat. Contg. Co., 9 Garnock Ave.; 2,365 ft. 12- to 21-in. sewer in King Edward Ave., 400 ft. 18 in. in Wallington Ave., 925 ft. 12 in. in Epsom Ave., and 535 ft. 12 in. in Keene St., to Dept. Pub. Wks. by day labor Engs. est. $100,000.

Bridges

PROPOSED WORK

Pa., Manayunk (Sta. Phila.) — Montgomery Co. (Norristown), plans bridge over Schuylkill River, here. $500,000.

See proposal advertisements on page 220, Advertising Section.

BUSINESS street, residence avenue or country highway, they are all the same from the viewpoint of the *Tax-Payer's Pocketbook.* Only one type of pavement available at reasonable first cost has repeatedly proved its ability to *outlast the bonds issued to pay for it*—VITRIFIED BRICK.

Think this over—name any street or road in your neighborhood *not paved with brick* which has given even 20 years of service. And then recall the fact that here in the United States there are brick pavements in use which were laid 35 to 45 years ago, while Holland is using brick pavements built at Napoleon's order.

Which, to your mind, is the economical policy in paving—to build with "cheap," short-lived materials which will require continuous repair and may not last even 10 years—or to pay an only slightly higher first cost for vitrified brick and get a pavement that will outlast the bonds and may even outlive you?

VITRIFIED Brick PAVEMENTS

OUTLAST THE BONDS

NATIONAL PAVING BRICK MANUFACTURERS ASSOCIATION, ENGINEERS BLDG., CLEVELAND, OHIO

Bridges (Continued)

North Carolina—State Hy. Dept., Raleigh, making plans rein.-con. bridges on Project 931 and 932, Graham Co., $100,000; on Project 664, Richmond Co., $35,000; on Project 479, Wake Co., $35,000; and on Project 240, Johnston Co., $100,000. C. M. Upham, Raleigh, engr.

North Carolina—State Hy. Comn., Raleigh, making plans rein.-con. bridges, etc., on Project 303, Bladen Co. $50,000. C. M. Upham, Raleigh, engr.

North Carolina—Carolina Power & Light Co., Raleigh, plans rein.-con. bridge to replace bridge over Yadkin River, at Swift's Island, which will be made impassable by proposed development. $300,000. P. A. Tillery, genl. mgr.

Fla., Miami—Making plans 5 bridges over Miami River, one at Southeast 2nd Ave. $500,000, one at Southwest 2nd St. $350,000, one at Northwest 2nd St. $350,000, one at 12th Ave. $340,000, and other 17th Ave. $340,000. Howard, Harrington & Ash, Kansas City, Mo., consult. archts.

Kan., Holton — Jackson Co. soon takes bids Straight Creek Bridge, 70 ft. truss span, 20 ft. wide, at Sta. 439 plus 30; Muddy Creek Bridge, 90 ft. truss span, 20 ft. wide, at Sta. 71 plus 80; and Spring Creek Bridge, 80 ft. truss span, 20 ft. wide, at Sta. 317 plus 80, all on Federal Aid Project 291-D. Kansas Eng. Co., 601 Kansas Ave., Topeka, engrs. P. W. Wright, Court House, co. engr. Noted May 7.

Kan., Independence — Montgomery Co. making plans one 120 ft. and three 100 ft. span concrete bridge, on Federal Aid Project 199, Sect. C. H. K. Hibbard Co., Independence, engrs.

Tex., Cold Springs — See "Streets and Roads."

Tex., Georgetown — See "Streets and Roads."

Tex., Madisonville — See "Streets and Roads."

Tex., New Braunfels — City and Comal Co. plan 2 span, 90 ft. steel, rein.-con. and timber bridge over Comal River, on Highway 46. $50,000. J. G. Morgan, c/o City Hall, engr. Noted Aug. 27.

Okla., Enid—See "Streets and Roads."

Calif., Los Angeles—City Council plans to issue $500,000 bonds, for bridges.

BIDS DESIRED

Miss., Jackson—See "Streets and Roads."

Miss., Waynesboro — See "Streets and Roads."

Mich., Detroit — Jan. 19, by Wayne Co. Road Comn. Real Estate Exch. Bldg., housing and enclosure walls for concrete and stone double leaf trunnion bridge over River Rouge, at Dix Ave. H. A. Shuptrine, 1103 Real Estate Bldg., engr. Noted May 28.

Wis., Milwaukee—See "Bids Received."

Kan., Eldorado — Jan. 14, by Clerk Butler Co., two 25 ft. and one 29½ ft. deck girder span bridge, three 8 x 30 ft., eight 8 x 30 ft. and three 6 x 28 ft. box culverts, on Federal Aid Project 239-D. E. S. Elcock, Court House, engr. Noted Dec. 17.

Kan., Eureka — Jan. 15, by Greenwood Co., one 120 ft. concrete arch and two 40 ft. deck girder span bridge, 1,365 yd. concrete, 97,887 lb. reinforcing and 6,255 lb. structural steel; two 18 ft. span bridge, 190 yd. concrete and 5,569 lb. steel; and two 16 ft. span bridge, 254 yd. concrete and 4,434 lb. steel. R. L. Marlin, Eureka, co. engr.

Texas—See "Streets and Roads."

Tex., San Antonio—Feb. 3, at office judge Bexar Co., 215 ft. rein.-con. girder type bridge over Leon Creek $75,000, 86 ft. rein.-con. girder bridge over Medio Creek $27,000, two 129 ft. rein.-con. girder approaches and remodeling present 150 ft. steel truss bridge over Medina River $29,000, all foregoing on Quintana Rd. in Precinct 1; 93 ft. concrete girder bridge over Calaveras Creek, on Elmendorf-Adkins Rd., in Precinct 4, $25,000; 117 ft. concrete girder bridge over Calaveras Creek, on Elmendorf-Lavernia Rd., in Precinct 4, $30,00. A. C. Pancoast, 102 Turner St., San Antonio, co. engr.

BIDS RECEIVED

N. Y., New York—Dept. Plants & Structures, Municipal Bldg., Dec. 28, reconstructing High Bridge over Harlem River, between Manhattan and Bronx Boros, from P. T. Cox Contg. Co., 154 Nassau St., $1,481,400. Noted Dec. 10.

Md., Baltimore—Bd. Awards, 800 ft. steel and concrete bridge, Smith Extension from Falls Rd. to east end of South Ave., from J. L. Robinson Constr. Co., 1130 West Lafayette Ave., $246,585. Noted Dec. 17.

Ill., Rockford—W. Shimmin, chn. Finance Com., Dec. 17, 800 ft. rein.-con. bridge over Rock River, from Powers & Thompson Constr. Co., Joliet, $279,400. Noted Dec. 3.

Wis., Milwaukee—Central Bd. Purchases, fabricating and delivering structural steel for Huron St. Bridge, from Milwaukee Bridge Co., 1400 34th St., $28,320. Work will be done by city forces.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., Dec. 30, reconstructing new pile and concrete bridge abutment and timber protection pier at Cherry St. Bridge, from E. E. Gillen Co., 288 East Water St., $26,690. Noted Dec. 31.

Tex., Breckenridge — See "Streets and Roads."

CONTRACTS AWARDED

Fla., Bradenton — Comrs. Manatee Co., Long Boat Inlet Bridge, 675 ft. long, pile trestle, between Long Boat and Anna Maria Keys, to R. H. Parks Co., Punta Gorda, $30,795.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, 3 rein.-con. bridges each over 20 ft. span, and reconstructing overhead crossing, on Buford-Pulaski Rd., to Globe Constr. Co., Evansville, Ind., $39,795; and 2 rein.-con. bridges on Buford-Maury Co. line Rd., to W. L. Hailey & Co., Nashville, $13,396; both on Federal Aid Project 40-C, Giles Co. Noted Dec. 11 under "Streets and Roads."

Ohio—See "Streets and Roads."

Ohio — Dept. Highways & Pub. Wks., Columbia, steel bridge on Sect. "J" Hamden-Andover Rd., Ashtabula Co., to Reedy Bros., Warren, $26,833; rein.-con. box culverts on Sect. "K" Gallipolis-Pomeroy Rd., Gallia Co., to Miller Bros., Gallipolis, $23,109. Noted Dec. 31.

Indiana—J. D. Williams, dir. State Hy. Comn., Indianapolis, **(r.c.a. means rein.-con. arch, r.c.g. rein.-con. girder, S. R. State Road, s.t. steel truss, r.c.s. rein.-con. slab, e.p.g. encased plate girder and e.e. engineers estimate)**, 1 r.c.a. and 1 r.c.g. on S. R. 1-I, Johnson Co., also s.t. and 1 r.c.g. on S. R. 11-L, Noble Co., to R. H. King, Danville, $30,522 and $34,705 respectively, e.e. $38,942 and $35,065 respectively; 1 s.t. on S. R. 7-K, Huntington Co., and 2 s.t. on S. R. 7-L, Allen Co., to Tharp & Tharp, Fountain City, $27,277, e. e. $31,775; 1 r.c. on S. R. 46-L, Noble Co., also 1 s.t. and 1 r.c.g., S. R. 11-K, Whitley Co., to D. Jenkins, 501 Market Ave., Terre Haute, $20,692, e.e. $24,620; 1 r.c.g. and 1 s.t. on S. R. 4-A, Greene Co., to F. Wright, Bloomfield, $9,600, e.e. $12,070; 2 s.t. on S. R. 21-L, Adams and Allen Counties, also 1 s.t. on S. R. 44-M, Clinton Co., and 1 r.c.g. on S. R. 44-N, Carroll Co., to Burk Constr. Co., New Castle, $16,765 and $15,195 respectively, e.e. $21,657 and $18,963 respectively; 1 s.t., 1 r.c.g. and 1 r.c.s. on S. R. 22-D, Monroe Co., to E. C. Wright, Bloomfield, $29,412, e.e. $37,635; 1 e.p.g. and grading on S. R. 22-G, Marion Co., to M. Balch Constr. Co., 906 Majestic Bldg., Indianapolis, $43,040, e. e. $57,485. Grand total $227,209. Noted Sept. 17.

Wis., Milwaukee—See "Bids Received."

Mo., St. Louis — Terminal R.R. Assn., Union Station, approximately 360 ft. rein.-con. and steel extension to Jefferson Ave. viaduct, etc., to Fruin-Colnon Constr. Co., Merchants-Laclede Bldg. Engrs. est. $350,000. Noted Oct. 15.

Tex., San Antonio—I. Ewig, city engr., Dec. 28, 1 span 85 ft. rein.-con. and steel bridge, 55 ft. across San Antonio River, on 4th St., to Pryor & Jeffrey, c/o Builders Exch. Bldg., $26,631. Noted Dec. 24.

Okla., Olathe—See "Streets and Roads."

California—See "Streets and Roads."

Ont., Toronto—Canadian Natl. Rys., New Union Station, bridge over Don River, and Queen St. and Eastern Aves. subways, general contract, to Dufferin Constr. Co., foot Bathurst St.; structural steel, to Hamilton Bridge Wks. Ltd., General Assurance Bldg. Engrs. est. $500,000. Noted Dec. 3.

Dams

PROPOSED WORK

Okla., Sand Springs—See "Buildings—Industrial."

Calif., Auburn—See "Excavation, Dainage, Irrigation, Levees, River, Harbor."

Railways

PROPOSED WORK

North Carolina—See Buildings—Industrial under "Reidsville and Proposed Work.

North Carolina — High Point, Denton & Thomasville R.R., High Point, C. F. Tomlinson, pres., plans extending 16 mi. lines from High Point to Greensboro.

Wyoming—Union Pacific R.R. Co., 1416 Dodge St., Omaha, Neb., plans grading road bed and laying 10 mi. track between Yoder and newly developed sugar fields. R. L. Huntley, ch. engr.

BIDS DESIRED

Missouri—See "Contracts Awarded."

CONTRACTS AWARDED

Missouri — Terminal R.R. Assn., Union Station, St. Louis, H. J. Pfeifer, ch. engr., will construct twenty-one 1,000 ft. storage tracks for pullman and passenger coaches on both sides Jefferson Ave., etc. by day labor. $650,000. Noted Oct. 15.

Excavation, Drainage, Irrigation, Levees River and Harbor

PROPOSED WORK

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, rejected bids Dec. 21, South Water Street Impvt., Sect. 9, incl. excavation, 300 ft. 7 x 7 ft. new dock construction, piles, sheeting and 12 caissons. Will readvertise. Noted Dec. 17.

Mo., St. Louis—Soon takes bids extending Hurdle Dikes 10, 11 12 and 13 into Missouri River at new Howards Bend Waterworks Plant about 8 mi. upstream from St. Charles. $200,000. E. E. Wall, City Hall, dir.

Tex., Dallas—Levee Dist. 1, c/o J. H. Prince, Wilmer, member, Dallas Co., voted $50,000 bonds levee improvements. Noted Dec. 17.

Tex., McAllen — Water Dist. 3, Hidalgo Co., voted $75,000 bonds, concrete lateral canals, addition improvements eliminating seepage, etc. Address I. G. Cook, pres.

Oklahoma — Owner, c/o J. Steen, pres. First Natl. Bank, Boswell, making surveys reclaiming and draining approximately 20,000 acres in Choctaw, Atoka, Bryan, Johnson and Coal Counties. $150,000 or more.

Calif., Auburn—Camp Far West Irrigation Dist., making plans granite concrete storage dam, 75 ft. high, 600 ft. long on bottom and 230 ft. long on top, and approximately 20 mi. canal. $100,000 or more. M. C. Polk, Chico, engr.

BIDS DESIRED

N. J., Ocean City—Golder Constr. Co., 263 South 15th St., Phila., Pa., taking bids 1,000,000 cu.yd. hydraulic fill for land development, here.

Mich., Detroit—Jan. 11, by G. A. Dingman, drain comr., Wayne Co., County Bldg., dredging Brady and Minnock Drain, 8,272 ft. deep with 2 ft. bottom width.

BIDS RECEIVED

N. Y., St. George — M. Cosgrove, comr. Docks, Pier "A," foot Battery Pl., New York City, dredging north side Pier 6, at Arrietta St., here, from Morris & Cummings, 15 Moore St., New York City, $10,011. Noted Dec. 31.

CONTRACTS AWARDED

N. Y., St. George — M. Cosgrove, comr. Docks, Pier "A" foot Battery Pl., New York City, dredging north side Pier 6, at Arrietta St. here, Contr. 1870, to Morris & Cummings, 15 Moore St., New York City, $10,011. Noted Dec. 31.

Fla., Miami—Golden Isles Corp., Lawyers Bldg., 37 Northeast 1st Ave., dredging 3,000,000 cu.yd. sand, etc., creating 10 islands in Biscayne Bay, also waterways, and deepening Pearl Harbor, to United Dredging Co., 233 Bway., New York City, N. Y., $1,000,000.

Ill., Danville — Comrs. Feather Creek D. D. 2, Vermilion Co., 99,129 cu.yd. excav. in open ditch, etc., to N. J. Cole, Greenville, O. Noted Dec. 10.

Arkansas—Chute Drainage Dist., Crittenden, Lee and St. Francis Counties, c/o H. Brinkley, chn., approximately 350,000 cu.yd. earth excav. for drainage canals, etc., to W. E. Callahan Constr. Co., Ry. Exch. Bldg., St. Louis, Mo., at $0.114 per cu.yd.

Ark., Jonesboro—Bay-St. Francis D. D. 29, Craighead Co., 1,848,500 cu.yd. excav. in levees and 1,284,800 cu.yd. excav. in ditches, etc., to A. J. O'Meara, Dyersburg, Tenn., $343,501. Noted Nov. 19.

Mexico — Mexican Government, Mexico City, irrigating 5,000,000 acres, etc., in various cities, to J. G. White Eng. Corp., 43 Exchange Pl., New York City, N. Y. $30,000,000.

Mexico, Tampico — Mexican Govt., Dept. Communications, Mexico City, dredging 100 meter channel in Panuco River from Fiscal wharf to East Coast Oil Co., near here, to United Dredging Co., Tampico, approximately $200,000.

See proposal advertisements on page 220, Advertising Section.

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Streets and Roads

PROPOSED WORK

Connecticut — State Hy. Dept., Hartford, plans rein.-con. paving, etc. about 5 mi. Meriden-Middletown Rd., 20 ft. J. A. MacDonald, comr.

New York—See "Unclassified."

N. Y., Buffalo — Supervs. Erie Co. plan widening 22 radial roads from here, and constructing 2 East and West trunk highways, etc. $27,000,000. G. C. Diehl, Ellicott Sq. Bldg., Buffalo, co. engr.

N. Y., Hamburg—Plans concrete or vitr. brick paving Buffalo St. To exceed $50,000. G. C. Diehl, Ellicott Sq. Bldg., Buffalo, engr.

New Jersey—Cape May Co. (Cape May C. H.) plans 3½ in. concrete paving road between Cape May and Atlantic City. $175,000. R. F. Smith, Marmora, engr.

North Carolina—Bd. Comrs. Currituck Co. Court House, Currituck, authorized $200,000 bonds concrete paving roads between Elizabeth City and Currituck Court House and from Sligo to Virginia State line. State Hy. Dept., Raleigh, in charge of construction. C. M. Upham, Raleigh, highway engineer.

North Carolina — State Hy. Dept., Raleigh, making plans grading and concrete or asphaltic paving 15.96 mi. Project 240, Johnston Co. $515,000, 13.17 mi. Project 307, Bladen Co. $395,000, 10.51 mi. Project 398 Robeson Co. $315,000, 5.15 mi. Project 465, Person Co. $160,000, 11.73 mi. Project 664, Richmond Co. $375,000, 13.36 mi. Project 685, Stanley Co. $428,000, 6.5 mi. Project 4870, and 7.95 mi. Project 479, Wake Co. $189,000 and $240,000 respectively; grading, gravel on broken stone paving 5.8 mi. Project 772, Watauga Co. $125,000, 6.86 mi. Project 715, Ashe Co. $140,000; grading and topsoiling 7.59 mi. Project 574, Moore Co., $34,000; clearing, grubbing and grading 16.3 mi. Project 931, and 6.5 mi. Project 932, Graham Co., $145,000 and $68,000 respectively. C. M. Upham, Raleigh, highway engr.

North Carolina — State Hy. Dept., Raleigh, making plans grading, concrete or asphaltic paving 13.46 mi. Project 3960, Robeson Co. $378,000, 5.618 mi. Project 471, Vance Co. $168,700, and 6.826 mi. Project 985, Swain Co. $939,400; clearing, grubbing and grading 4.699 mi. Project 838, Henderson Co., $45,500; grading and topsoiling 12 mi. Project 303, Bladen Co., $168,000. C. M. Upham, Raleigh, engr.

N. C., Durham — Plans paving various streets. $1,000,000. H. W. Kueffner, dir. Pub. Wks.

N. C., Salisbury—See "Unclassified."

Ga., Ashburn—Turner Co. election Jan. 16, $126,000 bonds, hardsurfacing various roads.

Fla., Clearwater—Pelleau Estates plans developing 400 acres, incl. streets and seawall $1,000,000; and sewers $300,000. R. F. Smallwood & R. W. Wakeling, Clearwater, archts.

Fla., Coral Gables—G. T. Merrick, c/o Administration Bldg., Miami, plans 6 mi., 200 ft boulevard and 6 mi. lighting system in Biscayne Bay section, here.

Fla., Ft. Lauderdale — City and Davenport & Rich, making plans and take bids probably in February, 200,000 lin.ft. 3 ft. concrete sidewalk in Westwood Heights subdivision. $120,000. J. H. Rhein, Ft. Lauderdale, engr.

Fla., Homestead—Made plans paving 10 mi. various streets. C. W. Murray, consult. engr.

Fla., Miami—Plans 3 in. asphalt on 8 in. rock surfacing 52 mi. East Dixie Highway, Northwest 7th, West Flagler and 20th Sts., Northeast 2nd, South and North Miami, Northwest 2nd, 17th, 7th, 22nd, Southwest 17th and 22nd Aves. $3,790,000. B. M. Duncan, engr. streets.

Fla., Miami Beach — Voted $4,259,000 bonds, streets, sidewalks, etc., on various streets.

Miss., Grenada—Grenada Co. soon takes bids improving 11.5 mi. Grenada-Calhoun City Rd., 16 ft., Federal Aid Project 147-A. H. C. Dietzer, Jackson, engr.

Tennessee—State Dept. Highways & Pub. Wks. Nashville making surveys improving 15 mi. Bolivar-McNairy Co. line Rd., Hardeman Co.; 9 mi. Union City-Weakley Co. line Rd., Obion Co.; and 16 mi. Dresden-Obion Co. line Rd., Weakley Co. C. N. Bass, acting comr.

Tennessee — State Dept. Highways & Pub. Wks., Nashville, making surveys improving 4 mi. Crump-McNairy Co. line Rd., Hardin Co. C. N. Bass, Nashville, acting. comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids in early spring improving 14 mi. Lafayette-Summer Co. line Rd., Macon Co. C. N. Bass, acting comr.

O., Cleveland—Cuyahoga Co. takes bids in spring paving 1.25 mi. Riverside Rd. from Lorain Ave. to Lakewood City limits, 38 ft., $188,000; 1.02 mi. Riverside Rd. from Madison Ave. to Cleveland City limits, 38 ft., $174,000; 3.8 mi. Berea Rd., 24 ft., $247,000, 1.158 mi. West 25th St., 56 ft., $262,500; 1.3 mi. Wooster Rd., 36 ft., $140,000; and 8.2 mi. Center Ridge Rd., 24 ft., $522,000. F. Lander, Court House, engr.

O., Cleveland—Cuyahoga Co. takes bids in spring paving 8.7 mi. Lorain Rd., 24 ft., $570,000; 7.44 mi. Detroit Rd., 32 ft., $600,000; and 5.34 mi. West Lake Rd., 24 ft., $350,000. F. Lander, Court House, engr.

O., Columbus—Soon takes bids asphalt on present brick resurfacing 3,225 ft. Parsons Ave., 42½ ft. $34,000. R. H. Simpson, city engr.

Ind., Anderson — Madison Co., making plans concrete paving 2¼ mi. Hugh Hill Road, 22nd St. and Rocky Ave. M. H. Steele, Anderson, engr.

Ill., East St. Louis—Made plans grading, curbing and paving 42nd St. from Caseyville to Van Buren Sts., $21,500; and sewers in 41st St., $6,200. W. McK. Brown, City Hall, engr.

Ill., East St. Louis — Takes bids latter part of January, grading, curbing and 8 in. concrete paving 6,180 sq.yd. 8th St., $34,500; grading, curbing and asphalt or concrete paving 10 blocks Market St. $30,900. W. McK. Brown, City Hall, engr. Noted Dec. 10 and 24.

Ill., Mt. Sterling—Plans paving 6 blocks South Capitol St. and 1 block Railroad Ave. Kinsey Eng. Co., Arcade Bldg., Pekin, engrs.

Wis., Beloit—Takes bids in spring various types paving 3.3 mi. various streets. G. E. Heebink, City Hall, engr.

Wis., West Allis—A. Wichner, supt. Bd. Pub. Wks., plans paving approximately 100,000 sq.yd. various streets during 1926. W. Darby, City Hall, engr.

Ia., Wilton Junction—Making preliminary plans grading, curbing and hardsurfacing 37 blocks various streets. H. R. Green Eng. Co., Bever Bldg., Cedar Rapids, engrs.

Minn., Moorhead—Making plans paving 13 blocks 11th St. $52,000. R. G. Price, city clk.

Kan., Almena—Making plans improving various streets. To exceed $25,000. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs.

Kan., Holton — Jackson Co. soon takes bids grading 2.991 mi. Sect. A, 4.937 mi. Sect. B, and 3.927 mi. Sect. C Federal Aid Project 291. P. W. Wright, co. engr. Kansas Eng. Co., 601 Kansas Ave., Topeka, engrs.

Kan., Newton—Harvey Co. soon takes bids grading and brick or concrete paving 7.7 mi. Meridian Highway, Federal Aid Project 329-A and B, 18 ft. Kansas Eng. Co., 601 Kansas Ave., Topeka, engrs. A. Hay, Court House, co. engr. Noted Oct. 15.

Kan., Newton—Harvey Co. made plans grading and bridging 8 mi. Santa Fe Trail east of here. Kansas Eng. Co., 601 Kansas Ave., Topeka, engrs. A. Hay, Court House, co. engr.

Kan., Ottawa—Franklin Co. soon takes bids grading 4.402 mi. Federal Aid Project 289-E and 4.914 mi. same road Sect. D, 28 ft. E. F. Loveless, Court House, engr.

Kan., Ottawa—Franklin Co. soon takes bids grading 5.056 mi. King of Trails Rd., Federal Aid Project 280-C, and 5.056 mi. same road, Sect. D, and 1.005 mi. Wellsville Rd., Federal Aid Project 306-A, all 28 ft.

Neb., Fairbury — Making preliminary plans grading, curbing, paving, etc., C St. between 4th and 14th Sts.

Neb., Omaha — Union Stock Yards Co., South Omaha, making plans 1,500 ft. rein.-con. and steel viaduct approach, 39 ft. roadway, etc., on L St., here. W. S. Brenig, c/o owner, ch. engr.

Mo., Clinton — Takes bids in January amiesite resurfacing 12.5 blocks Public Sq., Main, Washington and Franklin Sts., 40 and 65 ft., C. A. Calvird, Jr., city clk.

Mont., Helena—Making plans paving approximately 2 mi. road from here to Veterans Hospital. $60,000. V. N. Kessler, city clk.

Mo., Milan—Making plans paving various streets. $25,000. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, engrs.

Mo., Pleasant Hill—Making preliminary plans paving various streets in business district. To exceed $25,000. M. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, engrs.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids grading and concrete paving 9,970 sq.yd. alleys in City Blocks 5569, 5554, 5542, 5529, 5293, 5206, 4849W, 5132, 5134 and 5205, $28,120, also 790 ft. vitr. clay sewer in Dale Ave. Sewer Dist. 6, $3,300. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Soon takes bids widening, resetting curbing, paving, etc. Vandeventer St. between Market and Chouteau Sts. $241,930. W. W. Horner, 300 City Hall, engr.

Ark., Little Rock — Making preliminary plans grading, curbing, guttering and paving Appian Way, West 5th, 6th, 7th and Valentine Sts. To exceed $25,000. H. A. Knowlton, city clk. Engineer not selected.

Ark., Siloam Springs — Making preliminary plans grading, curbing and paving streets in Paving Dist. 4. To exceed $25,000. W. L. Winters, 311 Merchants Natl. Bank Bldg., Ft. Smith, engr.

Tex., Alice — Election Jan. 21, $50,000 bonds paving about 28 blocks various streets. Address mayor.

Tex., Angleton — Brazoria Co. making plans hard paving 11 mi. Damon Rd. Dist. $150,000. E. N. Gustafson, Angleton, engr.

Tex., Cleburne—Making plans permanent paving about 20 blocks South Willow St., Wardville, Anglin to City Hall, and Mill St. from City Hall to Harrell St. $75,000. C. H. Reesdale, c/o City Hall, engr.

Tex., Cold Springs—San Jacinto Co. making plans grading, bridging and general surfacing 12 mi. State Highway 35 from Liberty Co. to Polk Co. line, 18 ft. $200,000. R. H. Spiller, Cold Springs, engr.

Tex., Edinburg — Hidalgo Co. voted $3,500,000 bonds hard paving, etc. about 150 mi. roads, 16 and 18 ft. P. S. Devine, Edinburg, co. engr. Noted Dec. 3.

Tex., Gainesville—Making plans paving various streets. $50,000. C. L. Wilson, city engr.

Tex., Georgetown—State Hy. Comn., Austin, cancelled bids to have been opened Jan. 8, grading and bridging 11.492 mi State Highway 29, State Aid Project 652 $140,000. M. C. Welborn, Georgetown, resident engr. Noted Dec. 31.

Tex., Houston—Harris Co. plans concrete paving 14.25 mi. State Highway 6, Galveston Rd., 20 ft. $365,000. Howe & Wise, 1st Natl. Bank Bldg., engrs.

Tex., Kingsville—Election Jan. 12, $125,000 bonds permanent paving various streets. Address City Engineer.

Tex., Madisonville—Madison Co. making plans grading and bridging 12.56 mi. Highway 21, Federal Aid Project 390-A. $93,600. A. McCormick, Madisonville, engr.

Tex., Raymondville—Willacy Co. making plans Bates type or rein.-con. surfacing about 13 mi. highway from Cameron Co. to Brooks Co. lines, 18 ft. $300,000. J. E. Johnson, Orange, engr. Noted Oct. 29.

Tex., Victoria—Victoria Co. defeated $1,700,000 bonds, constructing various roads. P. P. Putney, co. judge.

Tex., Wharton—Election Jan. 19, $85,000 bonds, alternate types hard paving 10 blocks Burleson St. to connect with Milan St. and Fulton St. from Public Sq. to Santa Fe Depot. B. D. King, Wharton, city engr.

Oklahoma — State Hy. Dept., Oklahoma City, making preliminary plans grading and gravel surfacing 72,600 sq.yd. Wagoner-Coweta Rd., Wagoner Co., $35,000; and grading and concrete slab surfacing 21,120 sq.yd. State Highway 1, east of Stillwater, Payne Co., $52,600. J. M. Page, hy. engr.

Oklahoma — State Hy. Dept., Oklahoma City, making surveys grading, etc. 14 mi. Calvin Allen Rd., Hughes Co., 30 ft. $45,000. J. M. Page, Capital, highway engr.

Okla., Blackwell—Plans grading, curbing and vertical fibre brick paving 31,135 sq.yd. residential streets in Impvt. Dist. 31 $131,349. W. Ritzhaupt, Jr., Blackwell, engr.

Okla., Enid—City Clerk takes bids about Jan. 10 (extended date), grading, curbing, bridging, sidewalks, guttering and 6 in rein.-con. paving 8 blocks various streets in Paving Dists. 117, 118, 119, 121 and 124, 30 ft. $34,400. F. C. Magruder, city engr. Noted Dec. 17.

Okla., Guthrie — Logan Co. made plans and soon takes bids concrete surfacing on present grade 105,000 sq.yd. Guthrie-Edmond Rd. $254,000. J. M. Page, Capitol Bldg., Oklahoma City, highway engr.

Okla., Guthrie—Making preliminary plans grading, curbing, paving, etc., 15 blocks Vilas, 11th, Logan and East Washington Sts., Paving Dist. 53. $60,000.

Okla., Hennessey — Plans concrete widening 8,200 sq.yd. Main St. $25,000. F. Ehler, mayor.

Okla., McAlester—Plans grading and concrete paving 5,400 sq.yd. 3rd and Washington Sts. $29,700. F. Fraser, McAlester, engr.

Okla., Oklahoma City — Plans widening South Robinson Ave., 4,500 ft. curbing and 5,560 ft. concrete paving. $38,815. B. M. Hart, City Hall, engr.

See proposal advertisements on page 220, Advertising Section.

Streets and Roads (Continued)

Okla., Picher — Plans grading, curbing and concrete paving 10,400 sq.yd. 4th St. $33,000. G. Stein, Miami, engr.

Okla., Ponca City—Plans grading, curbing and vertical fibre brick paving 7,200 sq.yd. South Lake St. $28,800. E. A. Jones, Ponca City, engr.

Okla., Pryor—Making preliminary plans grading and concrete paving 10,500 sq.yd. Main St. $30,000. Engineer not selected.

Okla., Tahlequah—Plans grading, curbing and concrete paving 9,700 sq.yd. Dist. 4. $31,000. T. P. Clonts, 2110 Garland St., Muskogee, engr.

Calif., Anaheim — Made plans curbing, guttering, walks, and 5 in. asphaltic concrete paving 190,000 sq.ft. North and South Olive Sts., etc. E. Hapgood, city engr.

Calif., Blythe—Making plans 5 in. Durite asphaltic concrete paving approximately 400,000 sq.ft various streets. A. C. Fulmor, 640 West 7th St., Riverside, engr.

Calif., Jackson — Plans paving various streets. To exceed $25,000. H. S. Tallon, city clk.

Calif., La Mesa—Made plans curbing and 5 in. concrete paving, etc., 1½ mi. portion of Chollas Rd., 30 ft. W. Rumsey, 3035 C St., San Diego, engr.

Calif., San Diego—Common Council plans improving Kettner Blvd., Hancock St., etc., 5,987 cu.yd. excav., 16,132 lin.ft. concrete curbing, 13,587 sq.ft. concrete sidewalks, and 402,805 sq.ft. 2 in. asphalt on 3½ in. bituminous paving, etc. F. A. Rhodes, city engr.

Ont., Toronto—Plans grading and paving, etc., extension of Suffolk St. through Jarvis St., $65,000; opening and grading lane between Galley and Garden Aves. $16,500, lane between Marion St. and Pearson Ave. $5,100; and opening lane between Munro and Hamilton Sts., $4,150. R. C. Harris, City Hall, engr.

Calif., Yreka—Plans 5 in. asphaltic concrete paving various streets. To exceed $25,000. A. O'Connor, city engr.

BIDS DESIRED

N. J., South Boundbrook — Jan. 15, by Council, T. L. Walters, clk., 8 in. concrete paving Canal Rd. from Main to Elizabeth Sts., also Elizabeth St. from Canal Rd. to boro limits. H. V. Van Emburgh, 149 North Ave., Plainfield, engr.

W. Va., Beckley — Jan. 22, by Raleigh Co., grading and paving 25 mi. Roads 1, 2, 3, 4, 5 and 6, in Town Dist., 16 ft. $600,000. H. M. Scott, Beckley, engr. Noted Dec. 3.

W. Va., Buckhannon — Jan. 20, by City Council, concrete paving 9 projects. $103,000. H. A. Sturm, city engr.

W. Va., Princeton—Jan. 16, by Mercer Co., clearing and grading 8,075 cu.yd. 1 mi. Bluestone Junction-Roseville Rd. L. T. Cadle, Princeton, engr.

Fla., Miami—Jan. 25, by City Comrs., grading, curbing, guttering, 2 and 3 in. sheet asphalt surfacing, etc., 565,666 sq.yd. Dists. 273 to 304; concrete sidewalks on 45,240 sq.yd. Dists. 63 and 64, $120,000. B. M. Duncan, city engr. Noted Dec. 31.

Miss., Jackson—Jan. 13, by Bd. Supervs. Hinds Co., improving 7.251 mi. Federal Aid Project 82-B, incl. bridges, 31,414 cu.yd. excav., 29,043 yd. borrow, 151,497 lb. reinforcing, 6,220 ft. foundation piling, 2.72 mi. Bermuda sod, etc. H. C. Pietzer, Jackson, engr.

Miss., Waynesboro — Jan. 14, by Bd. Supervs. Wayne Co., improving 6.876 mi. Federal Aid Project 83-A, 25.22 acres clearing and grubbing, 37,784 cu.yd. excav., 24,116 lb. reinforcing, 14,311 cu.yd. gravel, 15,475 units gravel overhaul, 2 mi. Bermuda sod, also bridges over 20 ft. span, incl. 76,596 ft. creosoted timber, 2,646 ft. untreated timber, 18,050 lb. reinforcing, etc. H. C. Dietzer, Jackson, engr.

Louisiana—Jan. 26, by State Hy. Comn., Baton Rouge, graveling 0.72 mi. Sect. C, Opelousas-Ville Platte Highway, State Project 386-C, St. Landry Parish. W. B. Robert, Baton Rouge, highway engr.

Pennsylvania—Feb. 5 and 6, by State Hy. Dept., Harrisburg, grading or rein.-con. paving, etc., approximately 25 mi. 22 projects in 19 counties. W. H. Connell, eng. executive and deputy secy. highways; adv. E. N.-R. Jan. 7.

Kentucky—Feb. 8, by State Hy. Dept., Frankfort, **(F. A. P. means Federal Aid Project)**, grading 4 mi. Columbia-Greensburg Rd., F. A. P. 143-A, Adair Co.; 1.5 mi. Fulton-Mayfield Rd., F. A. P. 146-B and 3 mi. Fulton-Clinton Rd., F. A. P. 131-F, both Fulton Co.; 15.9 mi. Mayfield-Fulton Rd., F. A. P. 146-A, Graves Co.; 4.2 mi. Elizabethtown-Leitchfield Rd., F. A. P. 147-A, Hardin Co.; 6.9 mi. Clinton-Bardwell Rd., F. A. P. 131-E, Hickman Co.; 5.2 mi. Hodgenville-Greensburg Rd., F. A. P. 126-B, La Rue Co.; and 3.6 mi. Richmond-McKee Rd., F. A. P. 129-B, Madison Co., all 24 and 28 ft. E. N. Todd, highway engr.

Indiana—Mar. 1, by Comrs. Henry Co., New Castle, grading and concrete paving 1 mi. County Line Rd., 20 ft., near Shirley, in Hancock and Henry Counties. $30,000.

Neb., Omaha—Jan. 19, by J. P. Hoctor, city clk., improving approximately 60,000 yd streets in Dists. 2444, 2486, 2487, 2549, 2620, 2659, 2665, 2672, 2726, 2749, 2765, 2768, 2781, 2794, 2799, 2843, 2850, 2855, 2861, 2867, 2868, 2879, 2880, 2887, 2890, 2902, 2911, 2924, and 2933, etc. H. Beal, city engr.

Mo., Neosho—Taking new bids 7 in. concrete paving 11,460 sq.yd. South Washington and North College Sts. Black & Veatch, 701 Mutual Bldg., Kansas City, engrs. Former contract withdrawn. Noted Dec. 17.

Ark., Osceola — Jan. 20, by Bd. Comrs. Osceola & Little River Road Impvt. Dist. 1, Mississippi Co., bituminous concrete or concrete paving various roads. A. S. Rogers, secy.; adv. E. N.-R. Jan. 7.

Tex., Brenham — See "Contracts Awarded."

Washington—Jan. 19, by State Hy. Dept., Olympia, grading, crushed rock or gravel surfacing, etc. 5.4 mi. State Rd. 11, Franklin Co. and 1 mi. State Rd. 3, Asotin Co.; grading and crushed gravel surfacing 9.7 mi. State Rd. 14, Kitsap Co.; also clearing, grading, etc. 5.8 mi. State Rd. 8, Skamania Co. J. W. Hoover, state highway engr.

California—Jan. 18, by State Hy. Comn., grading, etc., 0.25 mi. streets between 5th St. in Washington and M St. bridge, Yolo Co. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., Ventura — Supervs. Ventura Co. taking bids asphaltic macadam paving, etc., 300,000 sq.ft. portion of Spear Rd. C. W. Petit, Ventura, co. surv.

BIDS RECEIVED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and curbing Clermont Ave., also grading and permanent sheet asphalt paving Chauncey St. from Sicilian Asphalt Paving Co., 41 Park Row, New York City, $7,260 and $10,830 respectively; grading, curbing and sidewalks on Central Ave. from Peace Bros., Inc., 57 North Lawrence St., Flushing, $1,623; 73rd St., from O'Brien & Kurth, 8625 13th St., Jamaica, $7,840; and various avenues, from Kennedy & Smith, 93 Amity St., Flushing, $55,320. Noted Dec. 31.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., Dec. 29, from L. Di Minna, 2366 Lorrilard Pl., grading, curbing and sidewalks on Underhill Ave. $7,806, Puritan Ave. $6,428, and on Thieriott Ave. $2,041; from P. J. Donovan, 30 Church St., on Hobart Ave., $18,101; from Gramaglia Bros., 48 East Kingsbridge Rd., East 214th St., $11,997; from Remo Realty Co., 530 East Tremont Ave., on Harrington Ave., $16,004. Noted Dec. 24.

Md., Baltimore—Mayor and City Council, City Hall, grading, surfacing and concrete work at Roland Park School, Roland Ave., from W. F. Huse, 2800 Montebello Ave., $29,739.

Tex., Breckenridge — J. W. Hill, judge Stephens Co., Dec. 24, bridging and paving with **(a)** 2 in. Modified Topeka Mix **(b)** 2 in. bitulithic **(c)** 2 in. Amesite **(e)** 2 in. rock asphalt. **(1)** 17.76 mi. State Highway 67, State Aid Project 640 **(2)** 16.83 mi. highway from here to Throckmorton Co. line, from L. W. Pelphrey & Co., Breckenridge, **(a1)** $420,847 **(e1)** $492,166 **(a2)** $488,185; from Womack Constr. Co., Sherman, **(b1)** $489,921; from Texas Natl. Paving Co., Eastland, **(c1)** $428,712; from Austin Bridge Co., 1815 Clarence St., Dallas, **(e2)** $532,996 **(e2)** $532,996. Noted Dec. 17.

Tex., Waco—Permanent paving 6 blocks North 12th St. from Jefferson to West and South 12th St., from Standard Paving Co., c/o Provident Bldg., $32,857. Noted Dec. 3.

California — State Hy. Comn., Sacramento, Dec. 21, grading and paving 6 mi. road across Sand Hills, Imperial Co., from Schmidt & Hitchcock, Phoenix, Ariz., asphaltic concrete $270,985, concrete $288,817. Engrs. est. $299,551 and $302,551 respectively. Noted Dec. 3.

Calif., Pacific Grove—Curbing, guttering and 1½ in. on 2½ in. asphaltic concrete surfacing 101,800 sq.ft. portion of Gibson Ave. from Clark & Henery Constr. Co., Chancery Bldg., San Francisco, approximately $26,000.

Calif., Santa Cruz—Santa Cruz Co., from C. W. Wood, Manteca, improving portion of Santa Cruz-Boulder Creek Highway 3,100 cu.yds. excav. $0.75 per cu.yd., 372 cu.yds. concrete curbing $17.50, 2,861 cu.yds. concrete paving $12.90, and 2,000 lbs. reinforcing $.055. Noted Dec. 10.

CONTRACTS AWARDED

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, grading and permanent asphalt on 6 in. concrete paving, Vermont St., to Borough Asphalt Co., 1201 Metropolitan Ave., $11,129; and 19th Ave., to B. Turecamo Contg. Co., 8706 Bay 12th St., $3,120. Noted Dec. 17.

N. Y., Long Island City—Park Bd., F. D. Gallatin, pres., Arsenal Bldg., 64th St. and 5th Ave., New York City, improving and paving transverse road in Jacob Riis Park, here, to Flemming & Sheppard, 116 Broad St., New York City, $48,344. Noted Dec. 31.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., grading and granite block paving 10th Ave., to C. Holbock, 633 Wales Ave., $3,351; and grading, curbing, flagging and sheet asphalt paving Bennett Ave., to Gaffney Constr. Co., 50 East 42nd St., $26,180. Noted Dec. 17.

N. Y., Yonkers — Bd. Contr. & Supply, bitulithic on concrete paving Nepperhan and Old Nepperhan Aves., to A. Ciancuilli, 923 Nepperhan Ave., $195,367. Noted Dec. 24.

W. Va., Philippi — Barbour Co., Court House, grading, etc. 6.5 mi. Project 3359, Galloway Rd.—Pleasant Dist., to Marrarra & Albright Constr. Co., Kingwood, $75,802.

N. C., Wilmington — City Comrs., City Hall, grading, curbing, sheet asphalt on concrete paving, etc. 25 blocks various streets, to Hudson & Scruggs, Wilmington, $200,000. Noted Dec. 3.

Fla., Bradenton—City, c/o R. K. Van Camp, comr. Pub. Wks., Dec. 21, improving various streets, 33,000 cu.yd. excav., 46,000 lin.ft. curbing, 65,000 sq.yds. paving, to Curry-Turner Constr. Co., Bradenton, $250,000. Noted Dec. 3.

Alabama—State Hy. Dept., Montgomery, rock asphalt surfacing 9.32 mi. Decatur-Moulton Highway, 18 ft., Morgan Co., to J. W. Gwin, Hamilton Station, Birmingham, $228,614, engrs. est. $230,000; gravel surfacing 6.3 mi. Greenville-Pineapple Highway, 18 ft., Butler Co., and 6.3 mi. Ashland-Lineville Rd., both 18 ft., to Nixon & Phillips, Lineville, $35,955 and $39,355 respectively, engrs. ests. $41,000 and $42,000 respectively. Grand total $304,524. Noted Dec. 3 and 10.

Mississippi — State Hy. Dept., Jackson, grading 10 mi. Kosciusco-Carthage Rd., Federal Aid Project 37, to Campenois & Blanks, Meridian, $76,091.

Louisiana — State Hy. Comn., Baton Rouge, graveling 8.802 mi. Hammond-New Orleans Highway, State Project 127 Sect. C, Tangipahoa Parish, to W. C. Perry, Baton Rouge, $88,044. Noted Dec. 10.

Miss., Grenada — Grenada Co., grading and gravel surfacing, etc., 8 mi. Grenada-Calhoun City Rd., 16 ft., Federal Aid Project 147-A, to Rogers & Dennison, Box 5, Memphis, Tenn., $128,737.

Miss., Kosciusko — Attala Co., grading, gravel surfacing, etc., 9.932 mi. Federal Aid Project 37, to Campenois & Blanks, Meridian, $76,091.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, 2½ in. bituminous macadam on 8 in. crushed stone surfacing 7.17 mi. Buford-Maury Co. line Rd., Federal Aid Project 40-A, Giles Co., to Gonell, Barrow & Kirkpatrick Co., Russellville, Ky., $179,750; and 6 and 8 in. concrete surfacing 9.19 mi. Buford-Pulaski Rd., 18 ft., Federal Aid Project 40-C, Giles Co., to J. E. Pryor & Co., Martin, $325,865. Noted Nov. 19.

Ohio — Dept. Highways & Pub. Wks., Nashville, grading, bridging and concrete surfacing 1.967 mi. Sect. "I-1" Marysville-Marion Rd., 18 ft., Marion Co., and 1.977 mi. Sect. "C" same road, to L. L. Clymer, Bluffton, $51,470 and $45,601 respectively, 6.997 mi. Sect. "A" Napoleon-Defiance Rd., 16 ft., Defiance Co., to R. Doaust, Defiance, $182,498, 0.878 mi. Sect. "A-1" Toledo-Angela Rd., 18 ft., Williams Co., to W. L. Johnson, Hicksville, $27,790; waterbound macadam surfacing 5.378 mi. Sect. "L" Columbus-Cincinnati Rd., 16 ft., Greene Co., to N. B. Putnam, Columbus, $93,018, 5.378 mi. Sect. "H" Columbus-Cincinnati Rd., Greene Co., to Bish & Carey, Ada., $61,737, 3.45 mi. Sects. "A and B" Cambridge-Steubenville Rd., 16 ft., Guernsey Co., to T. D.

See proposal advertisements on page 220, Advertising Section.

Streets and Roads (Continued)

Van Camp, Hartman Bldg., Columbus, $109,413, 1.992 mi. Sect. "A-2" Sarahville Rd., and Sect. "E-1" Caldwell-Barnesville Rd., 18 ft., Noble Co., to D. I. Angelo, Caldwell, $54,001; tar macadam surfacing 1.999 mi. Sect. "A-2" West Minster-New Hampshire Rd., 18 ft., to Scioto Constr. Co., Kenton, $39,137. Grand total $664,665.

O., Cincinnati—Director Pub. Serv., grading, curbing and concrete repaving 3,800 sq.yd. Fairbanks Ave., to O'Connell & Sweeney, Florence Ave., $28,128. Engrs. est. $31,393. Noted Dec. 24.

Ill., East St. Louis—To Concord Constr. Co., 1021 Converse Ave., grading, curbing and hardsurfacing Illinois Ave. from Collinsville to 10th Sts. $39,334, 13th St. from Bway. to Illinois Ave. $30,815, 18th St. from State St. to Illinois Ave. $14,873, and 4th St. and Trendley Ave. $76,834. Grand total $161,856. Noted Oct. 16.

Kan., Independence — City and Montgomery Co., improving 1.231 mi. County Project 23, Sect. A, 18 ft., to C. Stanton, Leavenworth, $28,641; and 1.136 mi. County Project 22, Sect. A, 18 ft., to A. G. Sherwood, Independence, $27,547. Noted Dec. 17.

Neb., Holdrege — Grading, curbing, 6 in. concrete paving, etc. 37,807 yd. various streets in Dists. 20 and 21, to Roberts Constr. Co., 415 1st Natl. Bank Bldg., Lincoln. Noted Dec. 3.

Mo., Lebanon — City Clerk, 2.5 in. asphaltic concrete paving 16,500 sq.yd. various streets, to Kaw Paving Co., 100 Topeka Ave., Topeka, Kan. Noted Dec. 17.

Ark., Harrison — City, 6 in. rein.-con. vibrolithic paving 13,000 sq.yd. Dist. 1, to Rowan, Rickard & Blackshire, Harrison, $38,000; concrete paving 6,000 sq.yd. Dist. 2, to Reagor Constr. Co., Augusta, Kan., $20,000. Noted Oct. 22.

Tex., Brenham—Comrs. Washington Co., will pave with hard material streets connecting with new highways (inside city limits), by day labor. $30,000. Former bids rejected. G. A. Bracher, Brenham, co. engr.

Tex., Waco — Brick on concrete paving about 3½ blocks alley next to News Tribune Bldg., to Standard Paving Co., 524 Provident Bldg., $3.25 per yd. Engrs. est. $26,000. Noted Nov. 19.

Okla., Madill — Marshall Co., Project 2, 4.23 mi. road work, 8,475 cu.yd. earth, 2,626 cu.yd. solid rock and 1,942 cu.yd. loose rock excav. 19,054 cu.yd. borrow, etc., to W. L. Davis, Madill, $23,509; Project 3, 3.58 mi. road work, 12,339 cu.yd. earth, 1,322 cu.yd. solid rock and 832 cu.yd. loose rock excav., etc., also Project 5, 4.28 mi. road work, 7,098 cu.yd. earth, 1,187 cu.yd. solid rock and 937 cu.yd. loose rock excav., etc., to J. T. Ables, Madill, $28,133 and $17,449 respectively. Grand total $71,091.

Okla., Norman—J. Hair, city clk., grading and concrete paving 14,400 sq.yd. various streets in Impvt. Dist. 9, 26 to 36 ft., to E. R. Tibbets, 427 West 22nd St., Oklahoma City, $58,711. Engrs. est. $61,110.

Okla., Ponca City—Grading, curbing and brick on concrete paving streets in Dists. 55 and 57, to R. H. Baldwin, Ponca City, $19,388 and $15,839 respectively.

Okla., Olathe—Johnson Co., brick paving, etc. 6.591 mi. Federal Aid Project 246-C, to Cook & Stucker, Ottawa, $299,361; 20 ft. slab span bridges on same road, to A. F. Lewis, Eldorado, $5,170. Noted Dec. 3.

California—State Hy. Comn., Sacramento (**e. e. means engrs. est.**) asphaltic concrete paving 0.8 mi. highway between 1 mi. south of Delano and point 1.8 mi. south of Delano (VI-Ker-4-P), Kern Co., to Warren Constr. Co., Bacon Bldg., Oakland, $14,787, e. e. $13,356; macadam paving 15 mi. highway between Castaic School and point 3 mi. north Natl. Forest Inn, Los Angeles Co., to F. W. Nighbert, Bakersfield, $55,860, e. e. $34,104; grading and crushed gravel or stone surfacing 2 mi. highway between head of Richardson Creek and Klamath River (I-D.N.-I-A), Del Norte Co., to H. W. Rohl, 625 Market St., San Francisco, $85,740, e. e. $106,231; and rein.-con. girder bridge over Atchison, Topeka & Santa Fe Ry. near Carlsbad, San Diego Co., to Coon Bros., Riverside, $18,370, e. e. $22,390. Grand total $174,757. Noted Dec. 3 and 17.

California—State Hy. Comn., Sacramento, Dec. 21, grading and asphaltic concrete paving 6 mi. road across Sand Hills, Imperial Co., to Schmidt & Hitchcock, Phoenix, Ariz., $270,985. Engrs. est. $299,651. Noted Dec. 3.

Calif., Burlingame—City Trustees, curbing, guttering, walks and 1½ in. Warrenite bitulithic on 4½ in. concrete paving, etc. 183,143 sq.ft. Adeline Dr., etc., to Union Paving Co., Call Bldg., San Francisco, $65,289. Noted Dec. 17.

Calif., Eureka — Grading, curbing, vitr. sewers and 1½ in. warrenite on 3 in. asphaltic concrete surfacing, etc., 218,211 sq. ft. Wabash Ave., to Mercer-Fraser Co., Eureka, $66,335.

Calif., Los Angeles — Los Angeles Co., curbing, sidewalks and concrete paving 145,197 sq.ft. portion of Ventura Ave. (Impvt. 181), to J. Christich, Douglas Bldg., $55,995; curbing, guttering, sidewalks, and concrete paving 376,486 sq.ft. San Pedro St. (Impvt. 244), to W. Haight, 260 South Pacific Blvd., Huntington Park, $115,280. Noted Dec. 31.

Calif., Newport Beach — V. A. Sebring, city clk., Dec. 14, improving Central Ave. between Balboa St. and Peninsula Ave., 41,796 sq.ft. cement walks, 18,900 sq.ft. clay and gravel, 33,450 sq.ft. 5 in. and 129,863 sq.ft. 8 in. concrete paving, to Kanavaugh & Twohy, P. O. Box 34, Orange, $57,965.

Calif., San Bernardino—For 4 in. macadam paving portion of Forest Home Blvd., to H. H. Lienau, 426 Brookside Ave., Redlands, $59,275.

Calif., San Diego — A. H. Wright, city clk., concrete curbing, sidewalks, and 1½ in. asphaltic concrete on 3½ in. bituminous paving 372,591 sq.ft. K St. from 16th to 32nd Sts., to Griffith Co., 25 14th St., $61,909. Noted Dec. 31.

Calif., San Diego — Curbing sides walks and 1½ in. on 2½ in. asphaltic concrete paving, etc. 215,907 sq.ft. 21st St. and Julian Ave., to Griffith Co., 25 14th St., $35,563. Noted Dec. 10.

Buildings—Industrial

PROPOSED WORK

Mass., Boston—BOILER HOUSE—Gillette Safety Razor Co., 41 West 1st St., having sketches made by C. T. Main, 200 Devonshire St., 1 story, rein.-con., West 1st St. $40,000 or more.

Mass., Boston — FACTORY — Prince Macaroni Mfg. Co., 207 Commercial St., having sketches made by C. H. Way, 6 Beacon St., 2 story, 7,000 sq.ft. floor space, rein.-con. and brick addition. $40,000.

Mass., Malden (br. Boston)—REFRIGERATING PLANT and OFFICE — H. P. Hood & Son, Inc., 494 Rutherford St., Charlestown, having plans prepared 1 and 2 story, 60 x 110 ft., 40 x 60 ft., and 40 x 95 ft., rein.-con. and brick, plain foundation, 339 Washington St. $50,000. Private plans.

Mass., South Boston (Sta. Boston) — CHEMICAL PLANT — Phoenix Industrial Chemical Co., 388 East 8th St., plans chemical plant. Engineer and architect not selected.

Mass., Worcester—REPAIR and SERVICE GARAGE—Mack Motor Truck Co., Boston, having plans prepared by Warren Eng. Co., Terminal Wharf, Charleston, brick and steel, Shrewsbury St., here. $100,000 or more.

Conn., Hartford — PRINTING — Case, Lockwood & Brainard, 141 Pearl St., had plans prepared by Lockwood Greene & Co., engrs. and archts., 24 Federal St., Boston, 5 story, steel and concrete plant, Hicks St. $325,000.

N. Y., Brooklyn — REFINERY and WAREHOUSE—Amer. Sugar Refining Co., 117 Wall St., New York City, plans rein.-con., brick and steel, plain foundation, Kent Ave. between Grand and South 5th Sts., here. $5,000,000. C. Huttlingler, 117 Wall St., New York City, engr. and archt.

N. Y., New York—PRINTING and PUBLISHING—New York American & Evening Journal, 238 Williams St., having preliminary plans prepared by McKenzie, Voorhies & Gmelin, 342 Madison Ave., 7 story, 200 x 200 ft., rein.-con., concrete pile foundation, 11th Ave. and 54th Sts. Noted Dec. 10.

N. Y., Port Ivory (mail Mariners Harbor)—FACTORY—Proctor & Gamble, 6th and Main Sts., Cincinnati, O., soon take bids rein.-con., steel and stone addition, plain foundation, here. $3,000,000. H. Manly, 20 East 53rd St., New York City, consult. engr. Private architects.

Pa., Etna (Pittsburgh P. O.) — ICE PLANT — Wilkinsburg Ice Co., 208 Centre Ave., Wilkinsburg, having plans prepared 1 and 2 story ice plant, brick, steel and concrete, here. $200,000. Private plans.

Pa., Phila.—FACTORY—Phila. Rubber Co. soon lets contract 28 rein.-con., brick and steel factory buildings. Osborn Eng. Co., 4900 Euclid Ave., Cleveland, O., archts. and engrs.

Pa., Phila.—MANUFACTURING—J. W. Watson Co., 24th and Locust Sts., having plans prepared by Ballinger Co., 12th and Chestnut Sts., 1 story, 124 x 783 ft., rein.-con., brick and steel, Aramingo Ave., Tulip and Sanger Sts. $300,000.

N. C., Kannapolis — COTTON MILL — Cannon Mfg. Co., plans mill to house 50,000 spindles, north of plant 6, on Concord-Salisbury Highway, Cabarrus Co., near here. $2,000,000.

N. C., Reidsville — WAREHOUSES — Amer. Tobacco Co., purchased 23 acre site and plans 9 warehouses, north of corporate limits of here. W. D. Stocks, br. mgr. Southern Ry., 1300 Penn. Ave., Wash., D. C., B. Herman, ch. engr., will build industrial tracks into the property at once.

Ga., Atlanta—BED SPRING PLANT—Simmons Co., 23 Jones Ave., plans altering and doubling capacity present plant, also 3 story, rein.-con. and steel office building, etc. $500,000. Morgan & Dillon, Grant Bldg., engrs.

Ga., Atlanta—REFRIGERATOR PLANT—Warren Co., 875 East Fair St., V. P. Warren, pres., plans plant addition.

Ga., Atlanta—WOOD TRUSS FACTORY — McKeown Bros. Co., Inc., 112 West Adams St., Chicago, Ill., J. G. McKeown, pres., purchased 5 acre site and plans 4 buildings, Glenwood Ave., here. $150,000.

Ala., Gantt—HYDRO-ELECTRIC PLANT—Horse Shoe Lumber Co., plans 32,000 kw. hydro-electric plant, 50 ft. high, 200 ft. wide, embracing 6,000 acre site. Southern Eng. Corp., Albany, engrs.

O., Canton—FACTORY—Hercules Motor Corp., 140 Halliwell Pl., S. E., H. P. Blake, secy., plans 2 story and basement, 14,000 sq.ft. floor space addition. $100,000.

O., Canton — STEEL PLANT — H. J. Eberman, 431 Tuscarawas St., plans to purchase site and build 1 story, structural steel plant. $100,000.

O., Cleveland — FACTORY — Newburg Steel Co., S. Friedman, secy., 6932 Kinsman Rd. making preliminary plans 3 or 4 story, rein.-con. and brick, Collamer Ave. $400,000. Engineer and architect not selected.

Ind., Evansville — PACKING PLANT — Stahl Packing Co., South 10th St., plans 2 story and basement, 44 x 45 ft., rein.-con. and brick, concrete pile foundation, Dixie St. $50,000. Tait & Sons, 1717 Cass Ave., St. Louis, Mo., engrs.

Ind., Indianapolis — WAREHOUSE — Vonnegut Hardware Co., 120 East Washington St., having plans prepared by Vonnegut, Bohn & Mueller, archts. and engrs., 610 Indiana Trust Bldg., 6 story and basement, 100 x 195 ft., brick, steel and rein.-con. warehouse. $150,000.

Ind., Terre Haute—PAPER MILL—Terre Haute Paper Co., 19th St. and Van R.R., plans 3 story, 45 x 100 ft., rein.-con. and steel, concrete pile foundation, 19th St. $65,000. Private plans.

Mich., Detroit—PLANT—Hudson Motor Car Co., 12601 East Jefferson Ave., had plans prepared by A. Kahn, 1000 Marquette Bldg., 1 story, rein.-con. addition to Building C, Waterloo St. $75,000.

Ill., Chicago—FURNITURE FACTORY—Niemann Table Co., 77th St. and Cottage Grove Ave., plans 1 story, 125 x 575 ft., rein.-con. and brick, 95th St. near Cottage Grove Ave. $400,000-$450,000. Engineer and architect not selected.

Wis., Fond du Lac—GARAGE and REPAIR SHOP—L. Voell Auto Co., 24 East Division St., having plans prepared 1 story, 117 x 200 ft., concrete and tile, plain foundation, South Main St. $60,000. Foundation awarded to J. Summerfield, 415 Grant St. A. W. Hoffmann, 86 Michigan Ave., Milwaukee, engr.

Wis., Madison—BOILER and HEATING PLANT — University of Wisconsin, c/o J. O. Phillips, bus. mgr., having plans, prepared by A. Peabody, State Capitol Bldg., boiler and heating plant, incl. piping, etc. $49,000.

Wis., Milwaukee — FACTORY — Layton Park Concrete Products Co., 1279 29th Ave., having plans prepared 2 story, 42 x 84 ft., concrete blocks and timber, plain foundation, 29th Ave. $40,000. Private plans.

Wis., Milwaukee—VENEER PLANT—Conway Co., 1819 St. Paul Ave., plans rebuilding 2 story, 200 x 200 ft. plant, St. Paul Ave., recently destroyed by fire. Engineer and architect not selected.

Wis., Sheboygan — FACTORY — Dillingham Mfg. Co., Wisconsin Ave. and South Water St., having plans prepared by E. A. Stubenrauch, 629 North 8th St., 3 story, 34 x 80 ft., and 40 x 80 ft., brick and timber addition.

See proposal advertisements on page 220, Advertising Section.

Buildings—Industrial (Continued)

Mo., Kansas City — FACTORY — Smith-McCord-Townsend Dry Goods Co., 8th St. and Bway., purchased site and plans 8 story and basement, 80 x 142 ft. fireproof addition. Engineer and architect not selected.

Mo., Marionville—COLD STORAGE and REFRIGERATION PLANT — Marionville Cold Storage Co. having plans prepared by Heckenlively & Mark, 642 Landers Bldg., Springfield, 4 story and basement, 85 x 110 ft. plant. $85,000.

Mo., Mexico — ICE PLANT — Missouri Power & Light Co., 119 West Promenade St., plans improving ice plant. $75,000.

Mo., St. Louis — FACTORY — A. E. Schmidt Co., 1113 Pine St., making preliminary plans 3 story and basement, 45 x 109 ft., brick and concrete, 1809-11 Olive St.

Mo., St. Louis — FACTORY — Westinghouse Electric & Mfg. Co., 717 South 12th St., having preliminary plans prepared rein.-con. factory. $1,000,000. Private plans.

Mo., Sikeston — SHIRT FACTORY — Chamber of Commerce, W. W. Hinchey, chn. Com. on Industries, making preliminary plans 2 story shirt factory, brick and concrete. $40,000. Elder Mfg. Co., 703 North 13th St., St. Louis, lessee.

Tex., Galveston—CLEANING PLANT—International Cotton Refining Corp., 42 Bway., New York City, P. C. Wadsworth, pres., having preliminary plans prepared 50 x 200 ft. cotton cleaning plant. $100,000. Private plans.

Tex., Harlingen—COTTON GIN—Henderson & Webb having preliminary plans prepared 6 stand, 80 saw capacity cotton gin. $40,000. Private plans.

Tex., Kerens — COTTON GIN — D. W. Ray & Son, plans rebuilding cotton gin, recently destroyed. $45,000. Engineer and architect not selected.

Tex., Marshall — ICE PLANT — East Texas Pub. Serv. Co. c/o K. Lee, Marshall, mgr., making plans 1 story, 80 x 80 ft., rein.-con., brick and steel plant, incl. equipment. $150,000. Private plans.

Tex., Nacogdoches — LIGHT PLANT — Election soon $50,000 bonds, light plant improvements. Address W. I. Baker, mayor.

Tex., San Antonio—APPLIANCE PLANT —Unit Mfg. Co., 204 Pereida St., plans to take over present plant of Unit Heating Co., and construct plant to manufacture gas heating appliances. $50,000. Address H. E. Dickinson, Russell Bldg.

Tex., San Juan—PLANTS—Rio Grande Canning Co. having preliminary surveys, etc., made, several canning plants throughout lower Rio Grande Valley. $100,000 or more.

Okla., Blackwell — FOUNDRY — Acme Fdry. & Mfg. Co. plans 40 x 60 ft., 60 x 100 ft. and 56 x 850 ft. steel foundry buildings.

Okla., Dawson—BRICK PLANT—Acme Brick Co., Mid-Continent Bldg., Tulsa, having preliminary surveys made 1 story brick plant, near here. $100,000. Work will probably be done by day labor. G. M. Giltinan, c/o owner, engr. in charge.

Okla., Kingfisher — LIGHT PLANT — Voted $40,000 bonds, enlarging steam light plant, incl. 2 new boilers, new steam turbine, cooling system, circulating pumps and new condenser. W. Ash, city comr. Engineer not announced.

Okla., Sand Springs — HYDRO-ELECTRIC PLANT—C. Page, Chamber Commerce Bldg., plans hydro-electric plant on Illinois River, 2,000 ft. spillway, 53 ft. high, dams about 600 ft. long, 65 ft. high, and three 5,000 kw. turbines. $2,000,000. Private plans.

Okla., Waynoka—ICE PLANT—Railway Ice Co., 309 South La Salle St., Chicago, Ill., having preliminary plans prepared 100 ton plant addition, Santa Fe yard, here. $75,000. Engineer and architect not announced.

N. M., Artesia—PLANT—Phillips Petroleum Co., Bartlesville, Okla., plans casing head plant, 9,000 g.p.d. capacity, using 6,000,000 ft. wet gas daily, near here. $625,000. Work will probably be done by day labor. Private plans.

California—ICE and ICE CREAM FACTORY—Vel Rose Ice & Ice Cream Co., Lodi, plans rein.-con. factories in various cities. $100,000 or more.

Calif., Fresno — ICE PLANT — Pacific Fruit Express Co., 65 Market St., San Francisco, plans ice manufacturing and storage plant, 70,000 ton capacity, in Southern Pacific Tract, here. $500,000.

Calif., Fresno — PACKING and PRE-COOLING PLANT — Forkner Properties Co., Inc., Fig Gardens, plans packing and pre-cooling plant, Forkner Fig Gardens Tract. $100,000.

Calif., Merced — FIG PRE-COOLING PLANT—Stewart Fruit Co., Wells Fargo Bldg., San Francisco, plans fig pre-cooling plant. Southern Pacific Reservation, here. $40,000 or more.

Calif., Santa Maria — SUB-STATIONS, etc.—Midland Counties Pub. Serv. Corp., 206 West Main St., plans sub-stations, transmission and distribution lines. $215,000.

BIDS DESIRED

Mass., Worcester—WORKSHOP and REPAIR GARAGE—P. Power, 33 Prescott St., taking bids 1 and 2 story, rein.-con. and steel, Prescott St. $40,000. H. L. Meacham, 120 Front St., archt.

Ind., Evansville — PLANT — See "Contracts Awarded."

CONTRACTS AWARDED

Mass., Boston—REPAIR and SERVICE —Meltzer & Snyder, Strathmore Rd., Brookline, 1 story, 135 x 176 ft., rein.-con., Station St., to Hub Constr. Co., 333 Washington St. Archts. est. $100,000. Noted Dec. 10.

Mass., Rowe — POWER UNIT — New England Power Co., 35 Harvard St., Worcester, 1 story, rein.-con., brick and steel, here, to Sherman Power Constr. Co., 35 Harvard St., Worcester. Archts. est. $40,000.

Mass., South Boston (sta. Boston) — REPAIR SHOP — A. Ketnes, 58 Champney St., 1 story, 50 x 70 ft., rein.-con. and brick, plain foundation, to A. W. Mayers, 68 Marine Rd. Archts. est. $40,000.

N. Y., Buffalo—MACHINE SHOP—Barber Asphalt Co., Land Title Bldg., Phila., Pa., 1 story, 45 x 225 ft., steel plant, here, to Austin Co., 16112 Euclid Ave., Cleveland, O.

Pa., Newell — REPAIR SHOP — Pittsburgh & Lake Erie R.R. Co., Pittsburgh & Lake Erie Terminal Bldg., Pittsburgh, general contract 1 story, 35 x 150 ft. repair shop, here, to J. H. DeCarpentier & Son, Newell.

S. C., Anderson — COTTON MILL — Toxaway Mills, 2 story, 107 x 275 ft. new mill, also 3 story, 60 x 80 ft. addition to Riverside mill plant, to T. C. Thompson & Bros., 609 North Smith St., Charlotte, N. C., $102,000.

Ala., St. Stephens—CEMENT PLANT—Santa Rosa Portland Cement Co., C. E. Hall, pres., Nashville, Tenn., rein.-con. plant, 6,000 bbl. daily capacity, here, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O. Archts. est. $2,500,000.

Tenn., Johnson City — SILK PLANT — Amer. Bemberg Corp., 1 story and basement, 267 x 575 ft. and 5 story and basement, 67 x 267 ft. manufacturing buildings and 2 story, 75 x 150 ft. power house, etc., rein.-con. and brick, to Hughes-Foulkrod Co., Commonwealth Bldg., Phila., Pa. Archts. est. $1,250,000. Noted Nov. 26.

O., Akron—RUBBER FACTORY—Goodyear Tire & Rubber Co., East Market St., two 1 story, 60 x 100 ft., and 100 x 120 ft., brick and steel, to Hunkin-Conkey Constr. Co., Hunkin-Conkey Bldg., Cleveland. Archts. est. $100,000. Noted Aug. 27.

O., Columbus—SERVICE STATION—J. J. Coons, 370 East Town St., 1 story, 52 x 187½ ft., with 52 x 49 ft. show room, concrete and brick, East Broad St., to D. D. Livingston, 1320 Franklin Ave. About $55,000. Show room leased to Madden-Atkinson Co., 399 East Main St.

O., Kenmore (br. Akron)—RECLAIMING PLANT — Miller Rubber Co., South High St., 1 and 3 story, 35,000 sq.ft. floor space, steel factory, to Austin Co., 16112 Euclid Ave., Cleveland.

O., Youngstown — FACTORY — Youngstown Mirror & Art Glass Co., 655 Market St., 2 story and basement factory, to Johnson & Carlson, Mahoning Bank Bldg., $150,000.

O., Zanesville—NEWSPAPER PLANT—Zanesville Publishing Co., 3 story and basement, 47 x 127 ft., concrete, brick and terra cotta, to Dinzweiler Constr. Co., Zanesville, about $75,000.

Ind., Evansville — FACTORY — Graham Bros. Motor Truck Co., Stringtown Rd., general contract 3 story, brick and steel factory, to M. J. Hoffman Constr. Co., 403 Furn Bldg. Archts. est. $90,000.

Ind., Evansville — PLANT — Mead-Johnson Co., 200 St. Joseph Ave., will build power plant, stack, 225 ft. high, 2 turbine generators, etc., by day labor. $90,000. W. E. Briggs, Knoxville, Tenn., engr.

Ind., Vincennes — SHOE FACTORY — Brown Shoe Co., 1610 Washington Ave., St. Louis, Mo., general contract 3 story, brick, steel and rein.-con. factory, to M. J. Hoffman, 403 Furn Bldg., Evansville. Archts. est. $100,000. Noted Dec. 17.

Michigan — POWER PLANTS — Spooner & Merrill, engrs., Powers Theatre Bldg., Grand Rapids, 2 hydro-electric plants, on Thornapple River, one at Ada, to Price Bros. Co., 45 Davies St., Dayton, O., $192,777, and other at Cascade, to R. E. Townsend Corp., Ann Arbor, $171,151, for Pub. Serv. Eng. Co., 72 West Adams St., Chicago, Ill. Waterwheel equipment for both plants, to S. Morgan Smith, P. O. Box 567, York, Pa.; and electrical equipment to Westinghouse Electric & Mfg. Co., 150 Bway., New York City, N. Y.

Mich., Detroit — FACTORY — Chrysler Motor Corp., 1 story, 286 x 820 ft. rein.-con., brick and steel, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O. Engrs. est. $400,000.

Ill., Chicago — FACTORY — Cinch Mfg. Co., 2339 West Van Buren St., 2 story, 65 x 125 ft., brick and timber factory, to Broline-Nolan Co., 5 North La Salle St. Archts. est. $50,000.

Wis., Kenosha — BRASS FOUNDRY — Specialty Brass Co., 917 Lester St., remodeling and constructing 1 story, brick and timber addition, Sheridan Rd., to J. Jensen, West Prairie Ave. Archts. est. $40,000.

Wis., Racine — FACTORY — S. C. Johnson & Son Co., 1012 16th St., 60 x 118 ft. and 60 x 160 ft., brick and timber top additions, to A. C. Kappel Co., 526 Wisconsin St. Archts. est. $60,000.

Wis., Two Rivers — MANUFACTURING —Aluminum Goods Mfg. Co., 15th and Franklin Sts., Manitowoc, 4 story, 50 x 62 ft., and 1 story, 50 x 82 ft., brick and steel additions, here, to W. W. Oeflein, Inc., 86 Michigan St., Milwaukee.

Minn., St. Paul — FACTORY — Motor Power Equipment Co., 2512 University Ave., general contract 1 story, 100 x 300 ft., rein.-con. factory, opposite Ford plant, to P. Steenberg Constr. Co., 915 Builders Exch. Bldg. Archts. total est. about $100,000. Noted June 4.

Mo., St. Louis — MACHINE SHOP — Standard Oil Co. of Indiana, Locust and Jefferson Sts., 1 story and basement, 114 x 150 ft., brick and concrete, Folsom St., to Lay Bros. Constr. Co., 5473 North Kingshighway. Archts. est. $60,000.

Calif., Los Angeles—FACTORY—J. H. Jonas, 4161 La Salle Ave., 3 story, 60 x 180 ft., rein.-con. and steel addition, and 50 x 80 ft. loading platform, 5841 South Park Ave., to A. H. Halperin, 1007 South Grand Ave., $60,000. Noted Sept. 24.

Calif., San Francisco—FACTORY—Electric Storage Battery Co., 1536 Bush St., 1 and 2 story, rein.-con., 3rd St. near Paul Ave., to C. L. Wold, 185 Stevenson St., approximately $125,000.

Buildings—Commercial

PROPOSED WORK

Mass., Framingham — TOWN HALL — Town, plans town hall with auditorium. $150,000. Ashton Huntress & Alter, 477 Essex St., Lawrence, archts.

Mass., Worcester — GARAGE — Shikes, Long & Waldron, 18 Tremont St., Boston, having plans prepared by S. S. Eisenberg, 46 Cornhill St., Boston, 3 story, 100 x 140 ft. and 110 x 140 ft., rein.-con. garage. $150,000.

R. I., Providence — MEMORIAL — City, Mayor's Office, City Hall, having plans prepared by A. R. Ross, 885 Park Ave., New York City, 270 ft. memorial tower, 70 ft. circular diam., brick and steel, plain foundation. $500,000.

Conn., Hartford — OFFICE — Travelers Insurance Co., 700 Main St., plans 9 story, brick and steel addition, Grove and Prospect Sts. $300,000.

Conn., Hartford—TEMPLE—Congregation Beth Israel, I. Wise, pres., 810 Prospect Ave., plans new temple. $500,000. Engineer and architect not selected.

Conn., Hartford—THEATRE—D. Weinstock, 22 Girard Ave., plans brick and steel moving picture theatre, State St. To exceed $150,000.

Conn., New Haven—OFFICE—Southern New England Telephone Co., 126 Court St., having plans prepared by R. W. Foote, 185 Church St., 10 story, 40 x 45 ft., brick and steel, Court St. $150,000.

Conn., New Haven—STORE—Chamberlain Co., 46 Orange St., had plans prepared by J. Weinstein, Chapel St., 5 story, brick and steel, plain foundation, Orange St. $200,000.

N. Y., Brooklyn — APARTMENT — H. Aaron, c/o Cohn Bros., engrs. and archts., 361 Stone Ave., having plans prepared 4 story, brick, steel and stone, plain foundation, Carroll St. $250,000.

N. Y., Brooklyn—APARTMENT—Rulian Building Corp., c/o Shampan & Shampan, engrs. and archts., 188 Montague St., having plans prepared 5 story, 100 x 100 ft., brick, steel and stone, plain foundation, Union St. and 8th Ave.

See proposal advertisements on page 220, Advertising Section.

Buildings—Commercial (Continued)

N. Y., Brooklyn — OFFICE — Montague-Court Corp., c/o H. C. Severance, archt., 36 West 44th St., New York City, having plans prepared 35 story, brick, steel and stone, plain foundation, Court and Montague Sts., here. $2,350,000.

N. Y., Buffalo — APARTMENT — W. Bressmahan, c/o Lewis & Hill, archts., 892 Main St., had plans prepared rein.-con., brick and tile, North Pearl St. $150,000.

N. Y., Mt. Vernon — OFFICE — Westchester Lighting Co., South 1st Ave., F. A. Stratton, pres., plans brick, steel and stone, plain foundation, 1st Ave. $1,000,000. Private plans.

N. Y., New York—APARTMENT—J. E. Carpenter, engr. and archt. 598 Madison Ave., preparing plans 15 story, brick, steel and stone, plain foundation, 168 East 79th St. Owner's name withheld.

N. Y., New York — APARTMENT — R. Brown, c/o Shape, Bready & Peterkin, engrs. and archts., 50 East 42nd St., having plans prepared 15 story, brick, steel and stone, plain foundation, East 86th St. $750,000.

N. Y., New York—CLINIC—New York Osteopathic Clinic, 356 East 32nd St., plans brick, steel and stone, plain foundation, East 20th St. $200,000. Engineer and architect not selected.

N. Y., New York—EXCHANGE—New York Telephone Co., 15 Dey St., soon takes bids 3 story, 100 x 140 ft., brick, steel and stone, plain foundation, Arden St. $500,000. McKenzie, Voorhies & Gmelin, 342 Madison Ave., engrs. and archts. Noted Nov. 12.

N. Y., New York — HOSPITAL — Dept. Plants & Structures, Municipal Bldg., having plans prepared 1 story, 65 x 240 ft., brick, steel and stone addition to Riverside Hospital, North Brother Island, here. $263,000.

N. Y., New York — HOSPITAL and NURSES HOME — Lincoln Hospital, c/o Bellevue & Allied Hospitals, J. J. McGrath pres., 26th St., having plans prepared by Starrett & Van Vleck, engrs. and archts., 393 7th Ave., brick, steel and stone, plain foundation, 141st St. and Concord Ave. $1,750,000.

N. Y., New York—HOSPITAL—Elizabeth Hospital, 415 West 51st St., takes bids about Jan. 20, 6 story, 120 x 200 ft., brick, steel and stone, plain foundation, Fort Washington Ave. and 190th St. $800,000. O'Connor, Delaney & Schultz, 162 East 37th St., engrs. and archts. Noted Dec. 24.

N. Y., New York — HOTEL — Hotel Properties, Inc., D. A. Shulte, pres., c/o Warren & Wetmore, engrs. and archts., 16 East 47th St., having plans prepared 20 story, brick, steel and stone, plain foundation, Madison Ave. and 52nd St. $2,500,000. Noted Nov. 5.

N. Y., New York—LOFT—Swan Foundation, c/o Schwartz & Gross, engrs. and archts., 347 5th Ave., having plans prepared 14 story, brick, steel and stone, plain foundation, West 29th St. $1,000,000.

N. Y., New York—LOFT—Trinity Corp., c/o V. Mayper, engr. and archt., 15 East 40th St., soon takes bids 10 story, brick, steel and stone, plain foundation, Varick St. $750,000. Noted Nov. 5.

N. Y., New Rochelle — APARTMENT — Odell Court Corp., c/o L. E. Denslow, engr. and archt., 44 West 18th St., New York City, having plans prepared 6 story, brick, steel and stone, plain foundation, Odell Pl., here. $500,000.

N. Y., Rochester — THEATRE and STORE—M. Katz, Ellicott Sq. Bldg., Buffalo, plans theatre and stores, Clinton Ave., here. To exceed $500,000.

N. Y., Syracuse—HOME—Bishops House of Charity, takes bids about Feb. 1, 280 x 450 ft. Home for Aged, fireproof, Salina St., $150,000. Randall & Vedder, S. A. & K. Bldg., archts.

N. Y., Syracuse — HOSPITAL — City having tentative plans prepared by M. Granger, Snow Bldg., 3 story and basement, brick or hollow tile hospital for contagious diseases. $250,000.

N. Y., Syracuse — THEATRE and OFFICE — M. H. Mark Theatrical Enterprises, Mark Strand Theatre, Bway., New York City, having plans prepared by T. W. Lamb, engr. and archt., 644 8th Ave., New York City, brick, steel and stone, plain foundation, here. $1,500,000.

N. Y., White Plains — HOSPITAL — Grasslands Hospital plans 3 story, brick, steel and stone addition, plain foundation. $300,000. Walker & Gillette, 128 East 37th St., New York City, engrs. and archts.

N. J., Newark — COURTHOUSE — Bd. Freeholders Essex Co., E. C. Ball, chn. Bldg. Com., Court House, having plans prepared by Guilbert & Betelle, Chamber of Commerce Bldg., brick, steel and stone, plain foundation, 465 High St. $2,100,000. Runyon & Carey, Broad St., engrs.

N. J., Trenton — APARTMENT — Glen Cairn Arms, Inc., Princeton, having plans prepared by L. V. Sweezy, Bible House, New York City, 7 story, brick and steel, West State and Calhoun Sts., here. $450,000.

Pa., Phila.—APARTMENT—J. Rabinowitz, 37th and Walnut Sts., having plans prepared by J. Margalis, 1505 Race St., 13 story and basement, 62 x 106 ft., rein.-con., brick and steel, plain foundation, 23rd and Walnut Sts. $700,000.

Pa., Pittsburgh — THEATRE — Loew Theatrical Enterprises, 1540 Bway., New York City, N. Y., having preliminary plans prepared by T. W. Lamb, 644 7th Ave., New York City, N. Y., 3 story and basement, fireproof, Penn and 6th Sts., here. $500,000.

Pa., State College — HOTEL — State College Hotel Co., c/o P. B. Kapp, archt., having plans prepared 5 story and basement, 56 x 75 ft., brick and stone hotel, here. $150,000.

Pa., Upper Darby (Phila. P. O.)—HOSPITAL—Delaware Co. Hospital, c/o T. C. Beswick, doctor, having plans prepared by Ballinger Co., 12th and Chestnut Sts., Phila., for hospital, Lansdowne Ave. $150,000.

Md., Baltimore—BUSINESS—Sherwood Bros., Continental Bldg., J. W. Sherwood, pres., plans 4 story, 110 x 150 ft., brick, Charles and North Aves. $150,000. Engineer and architect not selected.

Md., Baltimore—OFFICE—I. Silberstein, 402 St. Paul St., plans probably 6 story, brick and steel, Calvert and Lexington Sts. $300,000. Engineer and architect not selected.

W. Va., Alderson — HOTEL — Cavalier Hotel Co., Inc., having plans prepared by Carneal & Johnston, Virginia Ry. & Power Bldg., Richmond, 6 story and basement, 50 x 112 ft., brick, Railroad Ave. $150,000.

N. C., Albemarle—COURT HOUSE—Bd. Comrs. Stanley Co., plans election in February, $250,000 bonds, new court house.

N. C., Asheville — COURT HOUSE and JAIL — Bd. Comrs. Buncombe Co., plans new court house and jail. $250,000.

N. C., Greensboro—HOTEL and COUNTRY CLUB—Sedgfield, Inc., having plans prepared by N. Harris, 20 Branford Pl., Newark, N. J., stone and stucco or brick, hotel and country club. $200,000 up.

N. C., Greensboro—MASONIC TEMPLE —Greensboro Masons plan new temple. $200,000. Address J. D. Wilkins, Greensboro.

N. C., Jackson Springs—SANATORIUM —J. D. Nagel, et al., Pennsylvania Hotel, 33rd St. and 7th Ave., New York City, purchased property, incl. hotel, etc., and plan remodeling hotel into sanatorium, developing lake, water and sewer works, etc., here.

S. C., Greenville—HOTEL—H. W. Fuller c/o Chamber of Commerce purchased 2,461 acres site Caesar's Head tract, and plans large hotel. $1,000,000.

Fla., Haines City — APARTMENTS — Owner, c/o F. Wallick, archt., 308 Hume-Mansur Bldg., Indianapolis, plans 3 story and basement, 94 x 110 ft., brick, steel and rein.-con., concrete pile foundation, here, $150,000; and 3 story and basement, 50 x 205 ft. brick and rein.-con. and concrete pile foundation, here, $225,000.

Fla., Jacksonville — ASSEMBLY — Ford Motor Co., Woodward Ave., Highland Park, Mich., had plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, Mich., 1 story, 206 x 239 ft., brick, steel and rein.-con. addition, plain foundation, Atlantic Coast Line and St. Johns River, here.

Fla., Miami — APARTMENT — R. A. Preas, archt., Metropolitan Bldg., preparing plans 3 story, rein.-con., in Central Miami Subdivision, Canal St. $150,000. Owner's name withheld.

Fla., Miami — CLUB and HOTEL — All-States Society Assn., 10th St. and 2nd Ave., having plans prepared by Day & Zimmerman, 16th and Walnut Sts., Phila., Pa., steel and rein.-con., 2nd Ave and 10th St. $2,000,000.

Fla., Miami Beach—HOTEL—G. R. K. Carter, pres., 15 Ocean Dr., having plans prepared by R. A. Preas, Metropolitan Bldg., Miami, 20 story, steel and rein.-con., Ocean Dr. at Biscayne Ave. $2,500,000.

La., New Orleans — OFFICE — New Orleans Pub. Serv., Inc., H. B. Flowers, pres., having plans prepared by Favrot & Livaudais, Hibernia Bldg., 8 or 12 story, fireproof, Baronne St. between Dryodas and Union Sts.

Miss., Holly Springs—COURT HOUSE—Marshall Co. having plans prepared by N. W. Overstreet, Jackson, 3 story, rein.-con. and brick court house. $150,000.

Miss., Vicksburg — HOTEL — Vicksburg Hotel Co. plans Jefferson Davis Hotel, 10 story, fireproof. $275,000. H. E. Rice, Sr., pres. Engineer and architect not announced.

Tenn., Memphis—HOTEL—J. Isele, et al., Arlington Hotel, having plans prepared by Pfeil & Awsumb, Fidelity Bank Bldg., 11 story, 350 ft., fireproof, Court Ave. $250,000.

O., Cleveland — APARTMENT — Owner, c/o T. Minor, archt., 9501 Wade Park Ave., having plans prepared 4 story and basement, 45 x 270 ft., concrete, brick and steel, East 83rd St. and Euclid Ave. $400,000.

O., Cleveland—COMMERCIAL—Superior Forty-Ninth Co., c/o H. Laronge, Williamson Bldg., had preliminary plans prepared by V. D. Allen, Rose Bldg., 2 story and basement, 90 x 170 ft., brick and steel, East 49th St. and Superior Ave. $150,000.

O., East Cleveland (Cleveland P. O.)—APARTMENT—J. Narosny, 13407 3rd St., had plans prepared by M. Weis, 617 Union Bldg., Cleveland, 3 story and basement, 88 x 105 ft., brick, 13410 2nd St. $150,000.

O., East Cleveland (Cleveland P. O.)—COMMERCIAL and APARTMENT—Wilkin Constr. Co., c/o M. Cohn, 817 Guardian Bldg., Cleveland, had plans prepared by M. Weis, 617 Union Bldg., Cleveland, 3 story and basement, 62 x 101 ft., brick, 1314 Hayden Ave., here. $150,000.

O., Marion — MEMORIAL — Harding Memorial Assn. takes bids probably in February, Harding Memorial, 52 ft. high, 80 ft. diam., marble and concrete portico, grading, planting and landscaping, Delaware Rd. $550,000. A. D. Taylor, 4614 Prospect Ave., Cleveland, landscape archt. H. Hornbostel & E. F. Wood, Hardy & Hays Bldg., Pittsburgh, Pa., archts.

Ind., Bedford — BANK — Citizens Natl. Bank having plans prepared by McGuire & Shook, Pythian Bldg., Indianapolis, 4 story and basement, 42 x 105 ft., rein.-con., brick and steel, concrete pile foundation. $200,000.

Ind., Indianapolis — CHEMICAL LABORATORY — Swan-Myers Co., R. M. Cain, pres., 219 North Senate Ave., having plans prepared by A. Scherrer, archt. and engr., 415 Indiana Trust Bldg., for chemical laboratory, brick, steel and rein.-con. $150,000.

Ind., Indianapolis—HOSPITAL—Marion Co. plans 2 story and basement, rein.-con. and brick, concrete pile foundation, near here. $150,000. Engineer and architect not selected.

Ind., Indianapolis—OFFICE and WAREHOUSE — Fishback Co., F. S. Fishback, pres., 102 South Pennsylvania St., having preliminary plans prepared by Vonnegut, Bohn & Mueller, archts. and engrs., 610 Indiana Trust Bldg., Indianapolis, 5 story and basement, 62 x 193 ft., brick, steel and rein.-con., McCarthy and Delaware Sts. $200,000.

Ind., Richmond—THEATRE—M. Remley Corp. having plans prepared by F. D. Jacobs, 28 West Lake St., Chicago, Ill., 2 story and basement, 70 x 160 ft., rein.-con., brick and steel, concrete pile foundation. $150,000.

Ind., Terre Haute—SHRINE TEMPLE—Terre Haute Chapter Shrine had plans prepared by Johnson, Miller, Miller & Yeager, 30 North 5th St., and soon takes bids 2 story, 130 x 145 ft., brick, plain foundation, North 7th St. $300,000. Noted Oct. 29.

Mich., Highland Park (Detroit P. O.)—MERCANTILE — S. S. Kresge, Kresge Bldg., having plans prepared 2 story and basement, 120 x 200 ft., rein.-con., brick and steel, plain foundation, Woodward and Labelle Aves. $250,000. Private plans.

Ill., Chicago — APARTMENT — M. S. Plotke, 111 West Washington St., having plans prepared by Huszagh & Hill, 6 North Michigan Ave., 8 story, brick and stone, on 100 x 258 ft. site, 4240-48 Clarendon Ave. $1,500,000.

Ill., Chicago — BANK — Columbia State Bank, 5000 West Chicago Ave., had plans prepared by W. G. Uffendell, 39 South State St. and soon takes bids 2 story, 50 x 125 ft., brick, marble and stone, 5146-48 West Chicago Ave. $250,000.

Ill., Chicago — HOSPITAL — Passavant Hospital, c/o R. Tyson, 58 West Jackson Blvd., having preliminary sketches made by Holabird & Roche, 104 South Michigan Ave., 8 or 9 story, approximately 95 x 205 ft. hospital, East Superior St. and Fairbank Court. $1,500,000.

Ill., Chicago—OFFICE—A. S. Schulman, 537 South Dearborn St. will not alter and construct addition to Terminal Bldg., 537 South Dearborn St. $500,000. Project abandoned. Noted Sept. 17.

Ill., Decatur—COURT HOUSE—Macon Co. plans election $500,000 bonds, 5 story and basement court house. R. Tenney, Decatur, co. superv. Engineer and architect not selected.

Ill., Harvey — MASONIC — Harvey Masonic Assn., W. R. Brandt, chn., having preliminary plans prepared 2 story and basement, 80 x 175 ft., brick, concrete and

See proposal advertisements on page 220, Advertising Section.

Buildings—Commercial (Continued)

stone, 155th and Center Sts. $150,000. Engineer and architect not selected.

Ill., Waukegan—BANK and OFFICE—Security Savings Bank having plans prepared by A. S. Alschuler, 28 East Jackson Blvd., Chicago, 3 story and basement, 64 x 69 ft., concrete, brick and stone, Washington St. $150,000.

Ia., Spencer — HOSPITAL — Clay Co. Medical Assn., and Spencer Hospital Assn., plan hospital, here. $150,000.

Kan., Kansas City—COUNTRY CLUB—Kansas City Country Club, c/o E. T. Wilder, 534 New York Life Bldg., Kansas City, Mo., having plans prepared by Holden, Ferris & Barnes, 1616 Baltimore St. and E. B. Delk, Meyer and Ward Blvds., 2 story and basement, 35 x 120 ft., and 130 x 170 ft., stone and timber, State Line Rd. and 63rd St. $200,000.

Neb., Grand Island — THEATRE — Famous Players Lasky Corp., 485 5th Ave., New York City, N. Y., having preliminary plans prepared by R. E. Hall & Co., Inc., 231 West 43rd St., New York City, N. Y., rein.-con., brick, stone and terra cotta theatre, West 2nd St., here. $300,000.

N. D., Fargo — BANK and OFFICE — First Natl. Bank Bldg., having plans prepared by Toltz, King & Day, Builders Exch. Bldg., St. Paul, Minn., 6 story and basement, rein.-con. and brick, 19 Bway. $250,000.

Mo., St. Louis—HOTEL—H. J. Rush et al, 6038 Delmar Blvd., having preliminary plans prepared by Rush-Lee-Rush, 6038 Delmar Blvd., 15 story and 3 basements, 600 room, rein.-con., brick, stone, steel and terra cotta hotel, Delmar Blvd. at Des Peres St.; also subway from hotel to Wabash Station. $2,000,000. Brussell-Viterbo, Arcade Bldg., engrs.

Mo., St. Louis—OFFICE—Syndicate of Physicians, c/o J. McCawley, 615 Chestnut St., takes bids about Feb. 31, 10 story and basement, 60 x 140 ft., rein.-con., brick, stone and steel, Washington St. $600,000. LaBeaume & Klein, Compton Bldg., archts. Noted June 4.

Mo., St. Louis—RECREATION—Freund Bros., Cherokee and Iowa Sts., having plans prepared by Wedemeyer & Nelson, Wainwright Bldg., 2 story and basement, 100 x 180 ft., brick, concrete and stone, incl. bowling alleys, etc. $200,000.

Tex., Ft. Worth—LODGE—Independent Order of Odd Fellows, c/o Secretary, plans 3 story, rein.-con. and brick, 5th and Burnett Sts. $150,000. Engineer and architect not selected.

Tex., San Antonio—OFFICE—McCrory Stores Corp., 1107 Bway., New York City, having preliminary plans prepared 10 story and basement, Houston and Navarro Sts., here. $400,000. Private plans.

Tex., San Antonio—THEATRE—Famous Players-Lasky Corp. & W. J. Lytle, c/o Princess Theatre, take bids about Jan. 20, 5 story and basement, brick and steel, Houston and River Sts. $1,500,000. Former bids rejected. Boller Bros., 114 West 10th St., Kansas City, Mo., engrs. and archts. Noted Dec. 10.

Tex., Wichita Falls — HOTEL — O. F. Marchman, 813 Scott St., takes bids after Jan. 14, 4 story and basement, 75 x 100 ft., rein.-con., brick and stone, plain foundation. $150,000. Sorey & Vahlberg, 813 Scott St., archts. Noted Dec. 31.

Okla., Okemah—COURT HOUSE—Okfuskee Co. having plans prepared by Layton, Hicks & Forsyth, 908 Baniff Bldg., Oklahoma City, and soon takes bids court house. $150,000. Noted Nov. 12.

Wash., Olympia — COURT HOUSE — Thurston Co. defeated $400,000 bonds, courthouse, Capitol Way. Noted Oct. 29.

Wash., Vancouver—APARTMENT HOTEL—Owner, backed by Chamber of Commerce, having plans prepared by H. Bittman, Securities Bldg., Seattle, and soon takes bids 8 story and basement, 100 x 120 ft., concrete and terra cotta apartment hotel. $325,000.

Calif., Lankershim — THEATRE and STORE—L. A. Smith, archt., Film Exch. Bldg., Los Angeles, soon takes bids 75 x 200 ft. and 100 x 200 ft., brick and rein.-con., here, for Hollywood Theatres, Inc. $175,000. Noted Dec. 17.

Calif., Los Angeles—APARTMENT—A. W. Menkins had plans prepared by L. Callahan & Sons, 718 Edwards & Wildey Bldg., 9 story and basement, 111 x 220 ft., timber and rein.-con., 715 South Normandie Ave. $900,000. Noted Oct. 1.

Calif., Los Angeles—CHURCH and SUNDAY SCHOOL — Immanuel Presbyterian Church having plans prepared by C. F. Skilling & H. M. Patterson, Chamber of Commerce Bldg., 3 story, 136 x 220 ft. church, and 3 story and basement Sunday school, Wilshire Blvd. and Berendo St., also 4 story, 60 x 145 ft. parish house, Catalina St. and Wilshire Blvd., all rein.-con. and steel. $1,000,000.

Calif., Los Angeles — HOSPITAL — Bd. Supervs. Los Angeles Co., had plans prepared by Allied Architects Assn., Natl. Bank Bldg. and soon take (1st. unit) new general hospital buildings. $5,750,000. Total $8,000,000.

Calif., Los Angeles — LODGE — H. F. Orme Masonic Lodge having plans prepared by Morgan, Walls & Clements, 1123 Van Nuys Bldg., 5 story and basement, 75 x 125 ft., rein.-con., timber and cork tile, 8th St. and Manhatten Pl. $175,000.

Calif., Los Angeles — OFFICE — Sun Realty & Finance Co. having plans prepared by Meyer & Holler, Wright & Callender Bldg., 12 story and basement, 38 x 115 ft., rein.-con., 618-20 West 6th St. $500,000.

Calif., Los Angeles—THEATRE, STORE and OFFICE—R. B. Lloyd, Union Oil Bldg., plans rein.-con., 2,500 seating capacity, Vermont Ave. south of Hollywood Blvd. $500,000. Far West Theatre Corp., F. Miller, pres., lessee.

Calif., Los Angeles—THEATRE, STORE and OFFICE—Warner Bros., c/o G. A. Lansburgh, archts., Consolidated Bldg., had plans prepared, theatre section 3,000 seating capacity, office section, 6 story, 196 x 225 ft., steel and rein.-con., Wilcox Ave. and Hollywood Blvd. $1,500,000 or more.

Calif., Modesto — COURTHOUSE — Stanislaus Co. plans election $150,000 or more bonds, courthouse.

Calif., Sacramento—HOTEL—Motor Inn Hotel Co., c/o R. A. Herold, archt., Forum Bldg., having preliminary plans prepared 1 and 2 story, rein.-con., 31st St. near M St. $150,000.

Calif., San Diego—CLUB—San Diego Athletic Club, having plans prepared by W. Wheeler and associates, Spreckels Bldg., xx Class A, 6th and A Sts. $350,000 or more.

Calif., San Diego—HOTEL—F. Webster, archt., Holly-Guaranty Bldg., Los Angeles, preparing plans 5 story, brick, hotel. $165,000. Owner's name withheld.

Calif., San Francisco—BANK and OFFICE—Mercantile Trust Co., 466 California St., having plans prepared by Miller & Pflueger, Lick Bldg., 3 story and basement, rein.-con., Mission and 22nd Sts. $250,000.

Calif., San Francisco — HOTEL and THEATRE — Marian Realty Co., A. F. Rousseau, pres., 110 Sutter St., plans about 8 story, Class "A," O'Farrell and Leavenworth Sts. $1,000,000.

Calif., San Francisco — STORE and THEATRE—Reid Bros., archts., 105 Montgomery St., soon take bids store and theatre building, 2,000 seating capacity, Taraval St. and 29th Ave., for Blumenfeld Theatre Circuit . $250,000. Noted Oct. 29.

Calif., Santa Monica—HOSPITAL—F. H. Webster, archt., Hollywood Guaranty Bldg., Los Angeles, preparing plans 3 story and basement, Class A hospital, here. Owner's name withheld. $175,000.

Calif., Santa Monica — OFFICE and STORE—Bay Cities Building & Loan Assn., 221 Santa Monica Blvd., having preliminary plans prepared by R. B. Peterson, 920 Santa Monica Blvd., 11 story and basement, 50 x 150 ft., rein.-con., 3rd St. and Santa Monica Blvd.

Calif., Santa Rosa — TUBERCULAR PREVENTORIUM — Sonoma Co. plans election $150,000 bonds, tubercular preventorium. W. W. Felt, Jr., co. clk.

Ont., Toronto—LIVE STOCK ARENA—City having plans prepared by J. J. Woolnaugh, City Hall, 2 story, rein.-con., brick and steel addition, plain foundation, Exhibition Park. $700,000.

BIDS DESIRED

Mass., Lynn—APARTMENT—See "Contracts Awarded."

Mass., Winchester — APARTMENT and GARAGE — See "Contracts Awarded."

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York — APARTMENT — See "Contracts Awarded."

N. J., Jersey City — JAIL — Jan. 28, Bd. Freeholders Hudson Co., 3 story, granite, brick and steel, plain foundation, Newark Ave. and Willow Court. $1,000,000. J. C. Rowland, 100 Sip Ave., engr. and archt.

Pa., Phila.—OFFICE—Jan. 8 (extended date), by Zantzinger, Borie & Medary, archts., Otis Bldg., 3 story and basement with 40 x 144 ft. and 40 x 200 ft. wings, rein.-con., granite, sandstone or limestone, plain foundation, Parkway at Fairmont Ave., for Fidelity Municipal Life Insurance Co., 112 North Broad St. $1,500,000. W. Gravell and I. H. Francis, Otis Bldg., consult. engrs. Noted Dec. 24.

Pa., Phila.—OFFICE—Jan. 12, by L. Rothschild, archt., 215 South Broad St., 12 story and basement, 39 x 125 ft., rein.-con., brick and steel, plain foundation, Juniper and Arch Sts., for D. Borton, trustee, 218 Chestnut St. $500,000. Noted Nov. 12.

Pa., Phila. — SALES and MAINTENANCE—Jan. 12, by P. S. Tyre, archt., 114 South 15th St., 8 story and basement, 44 x 69 x 77 x 236 ft., rein.-con., brick and steel, plain foundation, Ridge Ave, Broad, Mellon and Pattison Sts., for Cadillac Motor Car Co., 114 North Broad St. $500,000.

Pa., Phila.—STORE and LOFT—G. B. Roth, archt., soon let contract 1629 Chestnut St., 12 story and basement, 30 x 114 ft., rein.-con and steel, plain foundation, 412-14 Market St. $350,000. Owner's name withheld.

Md., Baltimore — LODGE — Jan. 12, by C. N. and N. Friz, archts., Lexington Bldg., 5 story and basement, 75 x 150 ft., brick and steel, plain foundation, 1027 North Charles St., for Order of Eastern Star, E. H. Williams, pres., 3601 Chestnut Ave. $250,000. Noted April 9.

Fla., Ft. Lauderdale—HOTEL—See "Contracts Awarded."

Fla., Jacksonville Beach—CITY HALL—Jan. 12, by City Comn., 2 story city hall, Pablo Ave. and 2nd St. J. D. Powell, Professional Bldg., Jacksonville, archt.

O., Cleveland—DEPOT—Jan. 20, by H. D. Jonett, engr., Ulmer Bldg for Center Tower Building for new depot, 52 story and basement, 100 x 100 ft., rein.-con., brick and steel, Public Sq., for Cleveland Union Terminal Co., c/o O. P. and M. J. Van Sweringen, Marshall Bldg. Graham, Anderson, Probst & White, 80 East Jackson Blvd., Chicago, Ill., archts. Noted Dec. 24, under "Unclassified."

O., Cleveland Heights (Warrensville P. O.)—APARTMENT—Euclid Overlook Co., F. Riley, Hanna Bldg., Cleveland, taking bids 4 story, concrete, brick and steel, Cedar Rd., here. $600,000. A. W. Harris, Guarantee Title Bldg., Cleveland, archt.

Ill., Chicago — HOTEL — P. Klein-Exel, 110 North Dearborn St., taking bids Avadon Hotel, 5 story, 55 x 140 ft., rein.-con., hollow tile, brick, steel and stone, 434 Melrose St. $295,000. F. Stanton, 310 South Michigan Ave., archt.

Wis., Milwaukee—HOSPITAL—Jan. 15, by Clas, Shepherd & Clas, archts., 445 Milwaukee St., 5 story and basement, 44 x 152 ft., brick and concrete addition, Cedar St., for Milwaukee Hospital, 22nd and Cedar Sts. $300,000.

Ia., Mason City—Jan. 15, by Y. M. C. A., 3 story and basement, rein.-con., brick and stone building. $200,000. Tyrie & Chapman, 2344 Nicollet Ave., Minneapolis, Minn., archts. Noted Dec. 3.

Minn., Duluth — HOTEL — Mar. 1, by Schroeder Hotels Co., Milwaukee, Wis., 3 story, 50 x 140 ft., rein.-con., brick, stucco and tile addition to Hotel Duluth, concrete foundation, Superior St. and 4th Ave. E., here. $160,000. M. Tulgren & Sons, 425 East Water St., Milwaukee, Wis., engrs. and archts.

S. D., Redfield—COURT HOUSE—Jan. 26, by Spink Co., c/o H. G. Joy, aud., 3 story and basement, 98 x 104 ft., rein.-con., brick, stone and slate court house. $300,000. Toltz, King & Day, Builders Exch., St. Paul, Minn., archts. Noted July 2.

Tex., Toyahvale — LODGE — See "Contracts Awarded."

Calif., Watsonville—HOTEL—See "Contracts Awarded."

BIDS RECEIVED

N. Y., Buffalo—MARKET—Commissioner Parks & Buildings, City Hall Dec. 22, rein.-con., brick and steel, Bailey Ave., from F. G. Hansel, Ellicott Sq. Bldg., $226,386. Noted Dec. 17.

Wis., Green Bay — MERCANTILE — Jorgensen-Blesch Co., 303 North Washington St., 4 story and basement, 110 x 162 ft., brick and concrete addition, plain foundation, from J. W. Nerhood, 225 North Catharine St., Appleton, approximately $150,000.

Mo., St. Louis — ADMINISTRATION — Bd. Pub. Serv., 208 City Hall, Dec. 22, 2 story and basement, rein.-con., brick and stone, Arsenal St., from John Hill Constr. Co., Syndicate Trust Bldg., for Isolation Hospital. $268,516. Noted Nov. 26.

See proposal advertisements on page 220, Advertising Section.

Buildings—Commercial (Continued)

Calif., Santa Barbara — HOTEL and STORE — N. Calahan, 4 story and basement, rein.-con., Cota St., from A. Johnson Co., Santa Barbara, approximately $176,500.

CONTRACTS AWARDED

Mass., Lynn — APARTMENT — B. Sudnesky, 28 Johnson St., will build 3 story and basement, 55 x 95 ft., rein.-con. and steel, Mall St. $150,000. Work will be done by separate contracts. E. Karp, 333 Union St., archt.

Mass., Winchester — APARTMENT and GARAGE — E. R. Wait, archt., Lawson Rd., will build 3 story and basement, brick, stone and stucco, Felsdale St. and Highland Ave., for W. W. Thomas, 120 West St., Portland, Me. $500,000. Work will be done by separate contracts.

Conn., Meriden — HOTEL — Hotel Matis, Inc., 12 Pratt St., 8 story, 64 x 103 ft., concrete, brick and steel, East Main St., to Patrick Kelly Constr. Co., 1713 Sansom St., Phila., Pa. Archts. est. $300,000. Noted Nov. 12.

Conn., Waterbury — BANK — Dime Savings Bank, 60 North Main St., 1 story and basement, brick and limestone, North Main St. and Abbott Ave., to Tidewater Building Co., 16 East 33rd St., New York City. Archts. est. $150,000 or more. Noted Dec. 24.

N. Y., New York—APARTMENT—Fritter Constr. Co., c/o C. Kreymborg, engr. and archt., 2534 Marion Ave., will build brick, steel and stone, plain foundation, Jessup Ave., by day labor. $200,000.

N. Y., New York — APARTMENT — Delgado Holding Corp., c/o Deutsch & Schneider, engrs. and archts., 35 Maiden Lane, will build 15 story, brick, steel and stone, plain foundation, 332 West 72nd St., by day labor.

N. Y., New York—APARTMENT HOTEL —C. S. and K. Constr. Co., Inc., 19 West 44th St., will build 20 story, brick, steel and stone, plain foundation, 331-41 West 86th St. $2,000,000. Work will be done by separate contracts. Address F. Leder, 188 Montague St., Brooklyn. W. I. Hohauser, 1400 Bway., engr. and archt.

N. Y., New York — APARTMENT — Trister Constr. Co., c/o C. Kreymborg, engr. and archt., 2534 Marion Ave., will build 5 story, brick, steel and stone, plain foundation, 172 Jessup Ave., by day labor. $250,000.

N. Y., New York — HOSPITAL — St. Marks Hospital, 177 2nd Ave., 5 story, 90 x 111 ft., brick, steel and stone, plain foundation, 233 East 11th St., to G. A. Fuller Co., 949 Bway. Archts. est. $400,000. Noted Dec. 31.

N. J., Camden—HOSPITAL—Morris & Erskine, archts., 1716 Cherry St., Phila., Pa., 3 and 4 story, rein.-con., brick and steel, plain foundation, here, to W. R. Dougherty, 1610 Sansom St., Phila., for Cooper Hospital. Archts. est. $500,000. Noted Nov. 19.

Pa., Munhall — STORAGE — Carnegie Land Co., Frick Annex, general contract 2 story and basement, 50 x 120 ft. storage building, to Pittsburgh Contg. & Eng. Co., Rebecca St., Wilkinsburg. Archts. est. $150,000.

Pa., Phila. — EXHIBITION — L. Gorer, chn. Sesqui Centennial Exhibition Assn., 2 story, 210 x 250 ft., stucco and steel, Broad St. and Pattison Ave., to M. Melody & Son Co., 1322 Race St. Archts. est. $500,000.

Md., Baltimore—GARAGE and SERVICE STATION—Autocar Sales & Serv. Co., 1309 Cathedral St., 1 story, 115 x 300 ft., rein.-con., plain foundation, 27th and Sisson Sts., to M. A. Long Co., 10 West Chase St., $150,000.

Fla., Coral Gables—APARTMENT—Falk & Geno, 704 Northeast 2nd Ave., Miami, 3 story, concrete and tile, Zamorca Ave., to J. Y. Gooch Co., Poinsetta Hotel, 117 Northwest 2nd Ave., approximately $150,000.

Fla., Ft. Lauderdale — HOTEL — W. F. Morang & Sons, 162 East Flagler St., Miami, will build 6 story, steel hotel in Lauderdale Isles at Coastal Canal and Middle River, by day labor. $1,400,000. J. M. Peterman, c/o owner archt. R. A. Belsham, c/o owner, engr.

O., Columbus — OFFICE — S. S. Kresge Co., Kresge Bldg., Detroit, Mich., 5 story and basement, 62 x 83 x 187 ft., brick, concrete, steel and terra cotta, State and High Sts., to E. H. Latham Co., 60 East Broad St., approximately $450,000.

O., Lakewood (Cleveland P. O.) — APARTMENT — Friedlander Realty Co., c/o M. Duchon, 1077 Thornhill Dr., Cleveland, 3 story and basement, 89 x 120 ft., brick, Cook Ave. and Clifton Blvd., here, to Meckler Bros., 941 Thornhill Dr., Cleveland. Archts. est. $175,000. Noted Dec. 24.

Mich., Detroit — OFFICE — A. Kahn, archt., 1000 Marquette Bldg., 10 and 14 story, rein.-con., brick and steel, plain foundation, Woodward Ave., to H. G. Christman Co., 315 Stevens Bldg., for The Maccabees, A. W. Frye, supreme commander, Shelby and Congress Sts. Archts. est. $2,500,000.

Ill., Chicago—APARTMENT—M. H. Callner, 177 North State St., general contract 12 story and basement, 75 x 197 ft. apartment, 426 Surf St., to Callner Constr. Co., 177 North State St. Archts. est. $1,500,000.

Ill., Chicago—APARTMENT—S. Olson, 701 Belmont Ave., masonry and concrete contract 5 story, 50 x 120 ft. apartment, 711 Belmont Ave., to Lindberg & Scholen, Buckingham Pl. Archts. est. $250,000.

Ill., Chicago—HOSPITAL, etc.—Cook Co. Supt. Public Service, Room 519 County Bldg., wrecking Childrens Hospital and excavating for building several new buildings and caissons for foundations for county hospital, to W. J. Newman, 16 North Curtis St. Noted Nov. 5.

Minn., Duluth—HOTEL—Haffner & Nelson, 4 story, 80 x 100 ft., steel, brick and tile, concrete foundation, 2nd and West Sts., to Jacobson Bros., Columbia Bldg., $175,000.

Mo., Kansas City — OFFICE — W. R. Pickering Lumber Co., R. A. Long Bldg., general contract 3 story and basement, 51 x 120 ft., concrete, terra cotta, brick and artificial stone office building, to Long Constr. Co., 600 Rialto Bldg. Archts. est. $175,000. Noted Sept. 3.

Mo., St. Louis—HOTEL—APARTMENT —M. Berkley, 7 story and basement, 45 x 102 x 158 ft., rein.-con., brick and stone, Pershing St. to F. J. Cornwall Real Estate Co., 111 North 7th St. Archts. est. $350,000.

Tex., Dallas — OFFICE — Petroleum Building Co., c/o T. P. Lee, pres., 1405 2nd Natl. Bank Bldg., Houston, 21 story and basement, 140 x 175 ft., rein.-con., brick, stone and steel, Texas Ave. and Austin St., here, to Hickey & Harrington, 808½ Commerce St., approximately $1,750,000.

Tex., Ft. Worth—EXCHANGE—Southwestern Bell Telephone Co., c/o F. W. Yensen, building supt., West Ind. Bldg., 3 story and basement, 85 x 95 ft., rein.-con., brick and stone, 11th and Throckmorton Sts., to J. T. Taylor, Burk Burnett Bldg., $168,000. Noted Oct. 1.

Tex., Houston—OFFICE—S. H. Kress & Co., 114 5th Ave., New York City, remodeling basement, 1st and 2nd story of 8 story office building, to E. S. Newcome, Dan Waggoner Bldg., Ft. Worth, $140,000.

Tex., Toyahvale—LODGE, etc.—Timber Mts. Development Corp., c/o L. I. Starling, pres. Fidelity Union Bldg., Dallas, will build 1 story, 50 x 50 ft., native stone and timber lodge (work starting Jan. 5, 1926), and 500 stone cottages (starting Jan. 1, 1927), $200,000, also 100 room hotel, (not included in above estimate), near here. Work will be done by day labor. Bryan & Sharp, 1301 Athletic Club Bldg., Dallas, archts.

Okla., Tulsa — APARTMENT — Shepard & Wiser, archts., 1208 R. A. Long Bldg., Kansas City, Mo., 8 story and basement, 93 x 144 ft., rein.-con., brick and stone, 15th and Frisco Sts., to Manhattan Constr. Co., Agency Hill, Muskogee. Archts. est. $510,000. Noted Sept. 10.

Okla., Tulsa — BUSINESS — Norton & Newlin, Kennedy Bldg., 3 story and basement, 90 x 140 ft., rein.-con., brick and terra cotta business building, to Manhattan Constr. Co., Muskogee. Archts. est. $300,000.

Okla., Tulsa — GARAGE and SALES ROOM — N. B. Fleming, archts., Bliss Bldg., 4 story and basement, 100 x 140 ft., rein.-con., brick and steel, to Brandes-Garbett Constr. Co., 410 Bliss Bldg.; rein.-con. and structural steel, to Patterson Structural Steel Co., Frisco Ry. and Xanthus Sts., for J. P. Hurley, 1st Natl. Bank Bldg. Noted Oct. 29.

Wash., Seattle—APARTMENT—Camlin Investment Co., 11 story, 120 x 120 ft., rein.-con. and steel, 9th and Pine Sts., to Western Constr. Co., Seaboard Bldg., $500,000.

Calif., Berkeley — OFFICE — Berkeley Terminal Properties, Inc., 2 story rein.-con., Addison St., Shattuck, Stanford, University Aves., to Lindgren-Swinerton, Inc., Standard Oil Bldg., San Francisco, approximately $250,000. Noted Dec. 3.

Calif., Los Angeles — HOTEL — A. F. Shaw, 1555 North Wilcox Ave., 5 story, 43 x 136 ft., brick and rein.-con., Selma Ave., to T. B. Morrison, 3281 Monette Pl., $175,000.

Calif., Los Angeles — OFFICE and STORE — Sun Realty & Investment Co., 1001 Lincoln Bldg., 12 story and basement, approximately 115 x 140 ft., steel and rein.-con., Flower and 7th Sts., to McNeil Co., 5860 South Park Ave., approximately $1,215,000. Noted Nov. 26.

Calif., San Diego—DEPOT, HOTEL, etc. —Pickwick Stage Co., 806 1st St., 7 story and basement, 120 x 200 ft., and 90 x 100 ft., rein.-con., to Edwards, Wildey, Dixon Co., Edwards-Wildey Bldg., Los Angeles, approximately $450,000. Noted Sept. 10.

Calif., San Diego — HOSPITAL — San Diego Co., general contract 5 story, fireproof annex, to Jarboe Constr. Co., Spreckels Bldg., Los Angeles, $120,950.

Calif., San Francisco — GARAGE — J. Pasqualetti, Humboldt Bank Bldg., 6 story and basement, rein.-con., Stockton Ave. near Green St., to Amer. Concrete Co., 785 Market St., $155,000. Noted Nov. 26.

Calif., Santa Barbara — OFFICE — H. Stockton, East Vall Rd., 2 story and basement, 236 x 238 ft., rein.-con., State and Haley Sts., to J. M. Cooper, 321 Rives-Strong Bldg., Los Angeles, $225,000. Noted Nov. 26.

Calif., Watsonville — HOTEL — Resetar Bros. will build 5 story, rein.-con., Main and Lake Sts., by day labor. $250,000. W. H. Weeks, 369 Pine St., San Francisco, archt. Noted June 11.

B. C., Vancouver—STORE—David Spencer, Ltd., Hastings and Seymour Sts., structural steel for 9 story, 104 x 260 ft., Hastings and Richards Sts., to Vulcan Iron Wks., Granville Island, Vancouver, $180,000. Noted Sept. 24.

Buildings—Educational, Religious

PROPOSED WORK

Mass., Boston — DORMITORY — Boston University, School of Religious Education and Social Service, plans 2 story dormitory $150,000. Engineer and architect not selected.

Mass., Malden (Boston P. O.) — CONVENT—Immaculate Conception, R. Neagle, pastor, having preliminary plans prepared by O'Connell & Shaw, 134 Newbury St., Boston, brick and steel, Pleasant St. $150,000.

R. I., Pawtucket — CHURCH — St. Mathieu's Church, J. A. Laliberte, pastor, plans church, Dexter and West Hunt Sts. To exceed $200,000. Engineer and architect not selected.

Conn., Hartford — SCHOOL — Barnard School Dist., E. W. Cotter, chn., 7 Windsor Ave., having plans prepared by J. B. Marchetti, 721 Main St., 3 story, concrete, brick and steel, North Main St. $350,000.

Conn., Stamford—SCHOOL—City, F. S. Bartram, chn. receiving competitive plans Feb. 10, 50 room, brick and steel, incl. physics and chemistory laboratories, Strawberry Hill. $800,000. Noted Oct. 22.

Conn., West Hartford (br. Hartford) — SCHOOL — Town of West Hartford, 11 Beverly Rd., having plans prepared by R. L. Barker, 15 Lewis St., Hartford, 2 story, brick and steel, Fern St. $200,000.

N. Y., Brooklyn—PAROCHIAL SCHOOL —St. Johns College, Lewis Ave., having plans prepared by J. F. Cook engr. and archt., Union Bldg., Newark, brick, steel and stone, plain foundation. $500,000.

N. Y., Long Island City—SCHOOL and CHAPEL — St. Raphaels Roman Catholic Church, 192 Greenpoint Ave., having plans prepared by F. Berlenback, engr. and archt., 260 Graham Ave., Brooklyn, 3 story, brick, steel and stone, plain foundation, Gould Ave. $225,000.

N. Y., New York—SCHOOL—W. H. Gompert, engr. and archt., Flatbush Ave. extension and Concord St., Brooklyn, soon takes bids P. S. 101, 5 story, 61 x 200 ft., brick, steel and stone addition, plain foundation, 111th St., here, for Bd. Educ., 500 Park Ave. $620,000. Noted Dec. 31.

N. Y., New York — VOCATIONAL SCHOOL—Bd. Educ., 500 Park Ave., having plans prepared by W. H. Gompert, engr. and archt., Flatbush Ave. extension and Concord St., Brooklyn, brick, steel and stone, plain foundation, Wales Ave. $500,000.

See proposal advertisements on page 220, Advertising Section.

Buildings—Education, Religious (Cont.)

N. Y., Sea Cliff—SCHOOL—Bd. Educ. having plans prepared by Coffin & Coffin, engrs. and archts., 522 5th Ave., New York City, brick, steel and stone addition, plain foundation. $200,000.

Pa., Berwick—CHURCH and SUNDAY SCHOOL—First Presbyterian Congregation having plans prepared by J. C. Fulton & Son, Uniontown, 3 story and basement, 119 x 148 ft. church and Sunday school. $225,000.

North Carolina — SCHOOLS — Wake Co. (Raleigh) plans altering and constructing schools at Cary, Wakelon, Garner and Knightdale. $280,000. J. C. Lockhart, Raleigh, co. supt.

N. C., Mt. Airy—SCHOOLS—Surry Co. Bd. Educ. plans schools, at Flat Rock, Little Richmond, Ararat, Flat Branch, Westfield and probably White Plains; also additions to Dobson and Copeland Schools.

Fla., Jacksonville — HIGH SCHOOLS — Bd. Pub. Instruction, having plans prepared by Max & Sexelby, project archts. and W. B. Ittner, consult. archts., 911 Locust St., St. Louis, Mo., three 3 story, brick, stone and concrete high schools. $500,000. Mark & Sheftell, 210 Clark Bldg., engrs.

Miss., Hattiesburg—SCHOOL—Bd. Educ. had plans prepared by N. W. Overstreet, Jackson, 1 story, rein.-con. and brick school. $150,000. Noted Oct. 15.

Miss., Vicksburg—CHURCH —Crawford Street Methodists, having plans prepared by Spencer & Phillips, Fidelity Bank Bldg., Memphis, Tenn., 2 story and basement, brick and stone, 9,000 seating capacity, Crawford St. $150,000.

Miss., Winona — HIGH SCHOOL — Bd. Educ. having plans prepared by N. W. Overstreet, Jackson, 2 story, rein.-con. and brick high school. $150,000. Noted Mar. 13.

O., Chillicothe — SCHOOL — Bd. Educ. having plans prepared by Garber & Woodard, 2803 Union Central Bldg., Cincinnati, 2 story and basement, 100 x 157 ft., concrete, brick and stone, incl. auditorium and gymnasium. $256,000. Noted Dec. 31.

O., Columbus — SCHOOLS — Bd. Educ., E. L. McCune, clk., having sketches made by H. D. Smith, c/o owner, Junior High School, 3 story and basement, brick and concrete, incl. gymnasium, auditorium, etc., Mock Rd., $480,000; and 2 story and basement, concrete, brick and stone addition to McGuffey Rd. Elementary School, $200,000.

Ind., Anderson—SCHOOL—School Bd., having plans prepared by E. R. Watkins, Farmers Trust Bldg., 2 story and basement, rein.-con. and brick, concrete pile foundation, Main St. $155,000.

Ind., Fort Wayne—SCHOOLS, etc.—School Bd. plans Oxford, Westfield and Franklin Schools, all 2 story and basement, $150,000 each; also 3 story and basement, school administration building, $155,000, all rein.-con. and brick, concrete pile foundations. Engineer and architect not selected.

Ind., Fowler — SCHOOL — G. Gunnels, trustee, having plans prepared by J. Bruck, Kentland, 2 story and basement, rein.-con. and brick, concrete pile foundation. $150,000.

Ind., Indianapolis—CHURCH—Meridian Heights Presbyterian Church, 47th St. and Central Ave., T. R. White, pastor, 4720 Park Ave., had plans prepared by H. Foltz, archt. and engr., 843 Lemcke Ave., for church. $150,000.

Ind., Indianapolis — NURSES HOME — Marion Co. plans 3 story and basement, rein.-con. and brick, concrete pile foundation, near here. $155,000. Engineer and architect not selected.

Ind., Indianapolis — SCHOOLS — Bd. School Comrs., 150 North Meridian St., having plans prepared by Daggett & Hibben, archts. and engrs., Indianapolis, 23 room addition to School 37, Baltimore and 25th Sts. $185,000, and by Osler & Burns, archts. and engrs., Indianapolis, 23 room addition to School 42, 25th and Rader Sts., $185,000, both rein.-con., brick and steel; by McGuire & Shook, archts. and engrs., Indianapolis, School 9, Vermont and Davidson Aves., $160,000, by H. Foltz, archt. and engr., 843 Lemcke Ave., 8 room addition to School 72, Troy and Carson Sts., $160,000, by Bass, Knowlton & Co., archts. and engrs., 801 Hume-Mansur Bldg., 6 room addition to School 14, 1129 East Ohio St., $150,000, and by D. A. Bohlen & Son, archts. and engrs., 1001 Majestic Bldg., 4 room addition to School 33, 1119 Sterling St., $150,000, all foregoing rein.-con. and brick.

Ind., Valparaiso—SCHOOL—School Bd., having plans prepared by Fellows & Hamilton, Tower Court Bldg., Chicago, Ill., 3 story and basement, rein.-con. and brick, concrete pile foundation. $300,000.

Mich., Battle Creek — SCHOOL — Bd. Educ. having plans prepared by W. B. Ittner, 911 Locust St., St. Louis, Mo., 3 story, brick, concrete and stone school. $200,000.

Mich., Melvindale (Dearborn P. O., R. F. D. 2)—SCHOOL—Bd. Educ. having plans prepared by Van Leyen, Schilling & Keough, 3440 Cass Ave., Detroit, 2 story, 110 x 200 ft., rein.-con., brick and steel addition, plain foundation. $150,000.

Illinois—HIGH SCHOOL—La Salle-Peru-Oglesby Junior College, T. McCormack, supt., takes bids probably in May, 3 story, L shaped, 65 x 200 ft., and 40 x 60 ft. high school, incl. 75 x 125 ft. auditorium, laboratories, etc., concrete, brick and stone, Chartres St. between 5th and 6th Sts., in La Salle and Peru. $400,000. Childs & Smith, 720 North Michigan Ave., Chicago, archts.

Wis., Beloit—DORMITORY—Beloit College had plans prepared by L. A. Reinhard & W. H. Fenton, 347 Madison Ave., New York City, N. Y., 3 story and basement, 60 x 170 ft. mens dormitory, plain foundation, on campus. $200,000. Engineer not selected.

Wis., Madison — CHURCH — Episcopal Church, c/o H. Lumpkin, West Washington Ave., plans 2 story, brick and stone church on eastside. $250,000. Engineer and architect not selected.

Ia., Newton—SCHOOL—Bd. Educ. having plans prepared by Thomas, McLennon & Thomas, 527 17th St., Des Moines, 2 schools. $170,000.

Kan., Kansas City—HIGH SCHOOL—Bd. Educ. had plans prepared by D. B. Peterson, 818 Minnesoto Ave., and soon takes bids 3 story and basement, 115 x 170 ft., rein.-con., brick and terra cotta high school. $250,000.

Kan., Pittsburg — SCHOOLS — Voted $450,000 bonds, for Junior High, Lincoln, Southside and Lakeside Grade Schools, all 2 story and basement, concrete and brick, for Bd. Educ. C. A. Smith, 800 Finance Bldg., Kansas City, Mo., archt. Noted Oct. 16.

Tex., Amarillo — CHURCH — Central Presbyterian Congregation, c/o R. Thomsen, pastor, having plans prepared by Shepard & Wiser, R. A. Long Bldg., Kansas City, Mo., 2 story, 140 x 210 ft., rein.-con., brick, stone and steel, 11th and Harrison Sts. $250,000.

Tex., San Antonio—EDUCATIONAL and STUDY — First Baptist Church, c/o I. E. Gates, pastor, 4th and Taylor Sts., having preliminary plans prepared by W. Noonan, c/o Builders Exch. Bldg., 4 story and basement, 100 x 140 ft., rein.-con., brick and stone, plain foundation. $200,000.

Tex., San Antonio — HIGH SCHOOL — City Pub. School Bd., c/o F. Haines, pres., Russell Bldg., plans election soon $225,000 bonds, new Senior High School, rein.-con. and brick, plain foundation and about $60,000 for stage equipment. Phelps & DeWees, Gunter Bldg., archts.

Tex., Waco—MEDICAL ARTS—McLennan Co. Medical Society, c/o president, plans rein.-con., brick, stone and steel Medical Arts Building. $600,000. Engineer and architect not selected.

Okla., Tulsa — SCHOOLS — Augustinian Fathers, E. A. Driscoll, pastor, taking bids three 2 story and basement, 35 x 100 ft., 60 x 147 ft., and 78 x 100 ft., rein.-con, brick and stone school buildings, plain foundations. $200,000. A. M. Atkinson, Mid-continent Bldg., archt.

Wash., Yakima — CHURCH — Presbyterian Congregation plans church. $175,000 funds raised.

Calif., Alhambra—CHURCH, etc.—First Presbyterian Church had plans prepared by Marston, Van Pelt & Mayburry, 25 South Euclid Ave., Pasadena, 1 story, 100 x 300 ft., rein.-con. church and Sunday school, auditorium to seat 1,000, Commonwealth Ave. between 1st St. and Garfield Ave. $200,000.

Calif., Corona — GYMNASIUM, etc. — Plans election $150,000 bonds, constructing gymnasium, shops, etc., at high school, and remodeling Washington School.

Calif., Los Angeles — SCHOOL — Bd. Educ. plans grammar school, Cabrillo Ave. $150,000. E. Gray & E. W. Taylor, 810 West 6th St., archts.

Calif., Oakland—SCHOOL—City rejected bids fireproof annex to Elmhurst School. H. Schroeder, 357 12th St., archt. Noted Dec. 31.

Calif., Pasadena — CHURCH and SCHOOL—First Presbyterian Church, A. S. Brug, chn. building com., San Gabriel, having plans prepared by Marston, Van Pelt & Maybury, 25 South Euclid Ave., Pasadena, rein.-con., Commonwealth Ave., here. $200,000.

Calif., San Francisco—CHURCH—Central Methodist Church, O'Farrell and Leavenworth Sts., having preliminary plans prepared by Miller & Pflueger, Lick Bldg., church, Leavenworth and McAllister Sts. $300,000.

Calif., San Francisco—SCHOOL—Davis Union High School Dist. having plans prepared by L. F. Starks, Ochsner Bldg., Sacramento, fireproof school. $150,000.

Calif., San Leandro — SCHOOL — San Leandro Union High School Dist., had plans prepared by E. W. Cannon, Ray Bldg., Oakland, 2 story, fireproof school, incl. auditoriums, gymnasium and shop buildings $240,000. Noted Oct. 29.

Ont., London — NURSES HOME — Victoria Hospital Trustees having plans prepared by J. M. Moore, 489 Richmond St., 4 story and basement, 180 x 250 ft., brick, Ottaway Ave. $300,000.

Ont., London—NURSES HOME—Watt & Blackwell, archts., Bank of Toronto Bldg., preparing plans and take bids about Jan. 19, 4 story and basement, 100 x 250 ft., rein.-con. and brick, Grosvenor St., for St. Josephs Hospital. $250,000.

B. C., Vancouver—SCHOOLS—Bd. School Trustees plan three 3 story, rein.-con. schools, plain foundations in East End section. $300,000. F. A. A. Barrs, Hamilton St., archt.

BIDS DESIRED

N. J., Teaneck—SCHOOL—Jan. 15, by Bd. Educ., Teaneck Twp., J. H. Rangeser, clk., completing School 2, Teaneck Rd. Hacker & Hacker, 1012 Palisades Ave., Palisade, engrs.; adv. E. N.-R. Jan. 7.

N. J., Totowa (mail Paterson)—DORMITORIES—Jan. 12, (extended date), by H. G. Lewis, comr. at office Division Architecture & Construction, 643 Broad St., Newark, about 20 buildings, incl. dormitories, recreation, administration, etc., at Training School for Feeble Minded Females, here. Archts. est. $1,000,000. Noted Dec. 17.

Pa., Williamsport — HIGH SCHOOL — Feb. 24, by Bd. Educ., 229 West 3rd St., Thaddeus Stevens Junior High School, 3 story and basement, 172 x 260 ft., brick and limestone, 7th Ave. and Louisa St. $400,000. Guilbert & Bertelle, 20 Branford Pl., Newark, N. J., archts. Noted Aug. 13.

Md., Baltimore—NURSES HOME—Jan. 14, by J. E. Sperry, archt., Calvert Bldg., 7 story, rein.-con., brick and steel, plain foundation, 33rd St., for Union Memorial Hospital. $350,000. H. F. Doeleman, 507 North Charles St., engr. Noted Mar. 19.

Md., Baltimore—SYNAGOGUE—Jan. 8, by Zion Shaari Congregation, c/o. A. S. Hillman, chn. building com., 3445 Park Heights Ave., 1 story, basement and balcony, 80 x 100 ft., rein.-con. and brick, plain foundation, Park Heights and Hilldale Aves. $150,000. J. Freund, 1307 St. Paul St., archt. Noted Aug. 27.

D. C., Wash.—HIGH SCHOOL—Jan. 12, by Dist. Comrs., Randall Junior High School. $200,000. Noted Dec. 10.

O., Cleveland—SCHOOL—Jan. 18, by Bd. Educ., F. G. Hogen, dir., 2 story and basement, 112 x 128 ft., rein.-con., brick and steel, East 55th St. and White Ave. $250,000. G. M. Hopkinson, Auditorium-Garage Bldg., archt. Noted Nov. 26.

Ind., Indianapolis—HIGH SCHOOL—Jan. 20, by Bd. School Comrs., 150 North Meridian St., Shortridge High School, 34th St. between Meridian and Pennsylvania Sts. J. E. Kopf & Woolling, 403 Indiana Pythian Bldg., archts. and engrs. H. Foltz, 704 J. F. Wild Bldg., consult. archt.

Ind., Muncie—SCHOOL—Jan. 22, by Indiana State Normal School, Ball Teachers College, steel and rein.-con. library and assembly hall. $223,000, Snyder & Babbitt, Columbus, O., archts. and engrs.

Ind., Terre Haute—SCHOOL—Feb. 1, by Bd. School Trustees, Administration Bldg., 2 story and basement, fireproof, 25th and Poplar Sts. $550,000. L. J. White, pres.

Kan., Emporia—MUSIC HALL—State Bd. Regents, c/o T. J. O'Neil, bus. mgr. Kansas State Teachers College, State House, Topeka, taking bids and opens same about Jan. 20, 3 story, 112 x 135 ft., rein.-con., brick and stone music hall. $150,000.

See proposal advertisements on page 220, Advertising Section.

Buildings—Education, Religious (Cont.)

C. D. Cuthbert, State House, Topeka, archt. Noted Dec. 24.

Neb., Lincoln—SCHOOL—Feb. 2, by Bd. Educ., J. G. Ludlam, secy., Park Elementary School, 2 story and basement, 200 x 284 ft., brick, concrete and stone, 9th and F Sts. $350,000. Davis & Wilson, 525 South 13th St., archts.

Calif., Van Nuys—HIGH SCHOOL—Jan. 13, by Bd. Educ., 2 story, 75 x 225 ft. domestic science building, 1 story, 72 x 223 ft. manual arts building, and 1 story, 30 x 40 ft. boiler room. $150,000. O. Neher, Insurance Exch. Bldg., Los Angeles, archt. Noted Aug. 27.

BIDS RECEIVED

O., Newton Falls—SCHOOL—Bd. Educ., H. C. Wolcott, clk., 2 story and basement, concrete, brick and steel, from V. W. Surber, North Union St., Akron, $138,000.

Mich., Detroit — HIGH SCHOOL — Bd. Educ., C. A. Gadd, bus. mgr., 1354 Bway., general contract 3 story and basement, 82 x 185 ft., rein.-con., brick and steel addition to Northern High School, plain foundation, Owen Ave., from R. F. Hill, 408 West Fort St., $250,857; heating equipment, etc., from Harrigan & Reid, 1705 1st St., $51,895. Noted Dec. 10.

Mich., Detroit—SCHOOL—C. A. Gadd, bus. mgr. Bd. Educ., 1354 Bway. Ave., Dec. 19, general contract 2 story and basement, rein.-con., brick and steel, plain foundation, Visger Ave., from M. A. Mahoney, Penobscot Bldg., $119,300; heating, etc., from J. W. Partlan, 13900 Algonquin Ave., $44,188. Noted Dec. 17.

CONTRACTS AWARDED

N. Y., Woodhaven (br. Jamaica) — SCHOOL—Bd. Educ., 500 Park Ave., New York City, P. S. 63, Sutter Ave. from 90th to 91st Sts., here, to Hastings Constr. Co., 47 West 34th St., New York City, $567,000. Noted Oct. 22.

Pa., Cornwell Heights — SCHOOL — St. Charles Roman Catholic Church, F. J. Flood, pastor, 2 story and basement, 50 x 100 ft., rein.-con., brick and stone, plain foundation, to D. W. O'Dea, Greene and Logan Sts., Phila. Archts. est. $150,000.

Pa., Phila.—SEMINARY and CHAPEL—Seminary of St. Charles Borromes, for Junior Seminary and Chapel, Overbrook, Highland and Wynwood Sts., to McCloskey Co., Inc., 1620 Thompson St. Archts. est. $1,000,000.

Pa., Pittsburgh—TRAINING SCHOOL—Bd. Educ., Fulton Bldg., general contract 2 and 3 story and basement, irregular, 5th Ave. and Boquet St., to J. G. Fullman Co., E. E. Savings & Trust Bldg., $578,000; heating and ventilating, to McGinnis, Smith & McGinniss, 435 Water St. $74,419; plumbing, to Iron City Plumbing Co., 527 1st Ave., $44,464; and electrical work, to Hess & Barton, Jones Law Bldg., $31,102. Grand total $727,985. Noted Dec. 24.

Va., Staunton — SCHOOL — Bd. Educ., general contract 3 story, rein.-con., brick and stone school, to Stoddard & Lambert, Staunton, $155,000.

Fla., Miami — CHURCH — First Baptist Church, 1st Ave. and 5th St., 23 story, steel and rein.-con., Northeast 1st Ave. and 5th St., to Wells Bros. Constr. Co., 53 West Jackson Blvd., Chicago, Ill., $1,699,500. Noted May 28.

La., New Orleans — SCHOOL — E. A. Christie, supervising archt. Orleans Parish School Bd., Craig School, 2 story, brick, St. Philip St. between Villere and Maris Sts., to J. A. Petty, Godchaux Bldg., $232,995. Noted Nov. 26.

Tenn., Nashville — COLLEGE — Scaritt College for Bible Teachers, L. Cuminggin, prés., general contract Bell Bennett Memorial, stone and concrete, on campus, to Rock City Constr. Co., Nashville approximately $400,000. Noted May 12, 1925.

O., Cleveland — SCHOOL — Bd. Educ., F. G. Hogen, dir., 2 story and basement, 72 x 170 ft., concrete, brick and steel addition, Harvard Ave., to W. Moore Co., 1276 West 4th St. Archts. est. $200,000. Noted Dec. 24.

O., Mayfield (mail South Euclid) — SCHOOLS—Bd. Educ., H. Huncher, clk., brick, steel and stone additions to Mayfield and Oakville Schools, to C. Peterson Constr. Co., 4500 Euclid Ave., Cleveland, $62,423 and $114,962 respectively. Noted Dec. 31.

Ind., Indianapolis—SCHOOL—School Bd., 2 story and basement, 120 x 140 ft., fireproof, to W. L. Pierce, Michigan City, $150,948. Noted Oct. 15.

Mich., Adrian — INFIRMARY — St. Josephs Academy, 3 story, 42 x 105 ft., rein.-con. and brick, plain foundation, to Huffer Constr. Co., 128 Western Ave., Fond du Lac, Wis. Archts. est. $150,000.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., general contract 2 story and basement, 200 x 200 ft., rein.-con., brick and steel, Cicotte Ave., to Rosewarne, McNab & Worswick, 333 State St., $267,000; heating, etc., to J. W. Partlan, 13900 Algonquin Ave., $77,400. Noted Dec. 24.

Ill., Chicago — HIGH SCHOOL — Bd. Educ., 650 South Clark St., general contract 2 story, 245 x 475 ft., brick and steel, Bosworth and North Shore Aves., to A. and E. Anderson Co., 19 South La Salle St., $738,798; carpentry contract, to J. J. Swanson & Co., 19 South La Salle St., $135,990; plastering, to W. Bondenberg Co., 221 South Leavitt St., $76,000; terrazzo, to Acme Mosiac Terrazzo Co., 9389 South Chicago Ave., $41,111; marble, to Peerling Marble Co., 3407 South La Salle St., $49,872. Grand total $1,041,781.

Wis., Milwaukee—HIGH SCHOOL—Bd. Educ., 10th and Prairie Sts., F. M. Harbach, secy., Junior High School, 3 story and basement, 160 x 170 ft., also 40 x 50 ft. power house, brick, tile and concrete, plain foundation, Concordia Ave., excavation, masonry and concrete work, to P. Riesens Sons, 1018 Humboldt Ave. $242,500; carpentry, to H. Jahns, 1915 Chestnut St., $56,298; structural steel, to C. Hennecke Co., 1353 North Pierce St., $24,025; plastering, to F. Poznansk., 255 23rd Ave., $25,100; heating and ventilating, to Wenzel & Henoch Co., 498 27th St., $58,347. Grand total $206,270. Noted Dec. 24.

Kan., Manhattan — LIBRARY — Kansas State Agricultural College, general contract 3 story and basement, 46 x 184 ft. and 64 x 107 ft., concrete, brick, steel and stone library, to Murch Bros. Constr. Co., Ry. Exch. Bldg., St. Louis, Mo., $207,998. Noted Nov. 12.

Mo., Kansas City—SCHOOL—Bd. Educ., Library Bldg., general contract 3 story and basement, irregular shaped addition to Ben Harrison School, to A. G. Harper, 6235 East 13th St., $117,000.

Mo., St. Louis—SCHOOL—Bd. Educ., 911 Locust St., general contract Deaf and Dumb School, 2 story and part basement, 117 x 188 ft., rein.-con., brick and stone, to Hiram Lloyd Building & Constr. Co., Syndicate Trust Bldg., $245,689; heating and ventilating system, to T. J. Sheehan, 2233 Olive St., $35,721. Noted Aug. 13.

Tex., San Antonio — HIGH SCHOOL — City, Junior High School, 1 and 2 story, part basement, rein.-con., brick and stone, plain foundation, Yorkshire and Berkshire Aves., to E. Oeffinger, c/o Maverick Bldg., $172,380. Noted Oct. 1.

Wash., Stellacoom — DORMITORY — State Dept. Business Control, Olympia, general contract 3 story and basement, 70 x 140 ft., rein.-con. and brick dormitory to E. Anderson, 517 I St., Tacoma, $138,179; 185 tons structural steel, to Puget Sound Iron & Steel Wks., Tacoma. Noted Nov. 19.

Calif., Los Angeles—CHURCH—Roman Catholic Diocese, Los Angeles and San Diego, 1 story, 50 x 135 ft., rein.-con., 700 seating capacity, Occidental Blvd. and Hoover St., to Wurster Constr. Co., 1205 Natl. City Bank Bldg., $88,200. Archts. est. $150,000. Noted Nov. 26.

Calif., Los Angeles — HIGH SCHOOL — Bd. Educ., general contract 2 story 100 x 263 ft. science building, and 1 and 2 story, 60 x 179 ft. shop, brick, John C. Fremont High School site, to Salih Bros., Detwiler Bldg., $134,825. Noted Dec. 24.

Calif., Oakland—DORMITORIES—Mills College, 59th Ave., 2 steel and concrete dormitories, Mills College campus, to E. T. Leiter, 3601 West St., $300,000.

Federal Government Work

BIDS DESIRED

N. Y., St. George—Buoys—Jan. 11, by Supt. Lighthouses, 50 steel buoys, approximately 27 in. diam. with cast steel bottom counterweight, welded construction.

D. C., Wash.—Dock—Spec. 5169—Jan. 13, by Bureau Yards & Docks, Navy Dept., repairing dock at Naval Air Station, Anacostia, here. L. E. Gregory, ch. Bureau. Noted Dec. 3.

Ga., Savannah—Barges—Jan. 28, by U. S. Engineer Office, 3 steel barges; adv. E. N.-R. Jan. 7.

Fla., Miami—Office—Jan. 23, by U. S. Engineer Office, Masonic Bldg., Jacksonville, office building, here.

Ala., Tuskegee — RECREATION — Jan. 27, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., 52 x 132 ft., brick, at U. S. Veterans Hospital, here; adv. E. N.-R. Jan. 7.

Tex., Galveston — Dredging — Feb. 3, by U. S. Engineer Office, dredging channel from Aransas Pass to Corpus Christi; adv. E. N.-R. Jan. 7.

Oregon—Road—Jan. 14 (extended date), by C. H. Purcell, dist. engr., Portland, grading, etc., 1.4 mi. Schoolfield Sect. Scottsburg-Reedsport Highway, Douglas Co. Noted Dec. 31.

Calif., Mare Island — Dredging — Spec. 5172—Jan. 20, by Bureau Yards & Docks, Navy Dept., Wash., D. C., plans dredging at Turning Basin, (Submarine Repair Base) Navy Yard, here. Noted Nov. 19.

C. Z., Panama—Pipe Masts—Spec. 5145—Feb. 3, by Bureau Yards & Docks, Navy Dept., Wash., D. C., 2 guyed steel pipe masts, for Naval Radio Station, Cape Mala, here. Noted Dec. 3.

T. H., Pearl Harbor — Administration — Spec. 5149—Feb. 24, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extending administration building, at Naval Base, here. Noted Dec. 3.

BIDS RECEIVED

Ga., Savannah — Remodeling — Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Marine Hospital, here, from T. R. Worrell, 201 East 39th St., $5,600. Noted Dec. 10.

Mich., Lansing—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., Dec. 28, remodeling and enlarging post office, here, from Garber & Cissel, Bethlehem, Pa., $7,000. Noted Dec. 10.

CONTRACTS AWARDED

Conn., New London—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and extending post office, here, to Garber & Cissel, Bethlehem, Pa., $20,500. Noted Dec. 17.

N. C., Oteen—Refrigerating Plant—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., refrigerating plant for U. S. Veterans Hospital, here, to Baker Ice Mchy. Co., 3601 North 16th St., Omaha, Neb., $11,885. Noted Oct. 29.

W. Va., Alderson—Reformatory—Treas. Dept., at office Supervising Archt., Wash., D. C., buildings for Federal Industrial Institution for Women, here, to Virginia Eng. Co., Newport News, Va., $828,000. Noted Dec. 3.

Fla., Mayport—Dwelling—U. S. Engineer Office, Masonic Temple, Jacksonville, constructing timber dwelling, here, to F. F. Myers, Jacksonville, $5,660. Noted Oct. 22.

Tex., Palacios — Camp — U. S. Property & Disbursing Officer for Texas, Camp Mabry, Austin, constructing 58 mess halls, waterworks system, pumping machinery, 50,000 gal. elevated steel tank, etc., for Natl. Guard Camp, here, to N. A. Saigh Co., 510-12 Builders Exch. Bldg., San Antonio, $96,025. Noted Nov. 26.

Unclassified

PROPOSED WORK

Golf Course, etc. — Fair Haven (New Haven P. O.) **Conn.**—City, Dept. Parks, New Haven, plans golf course and buildings, here. $100,000 appropriated. E. S. Nettleton, city engr.

Traffic Signals—Hartford, Conn.—City, Police Dept., plans 7 electric traffic signals. $40,000. Address City Engineer.

Fill—New York—Erie Co. (Buffalo) plans to issue $250,000 bonds, acquiring old Erie Canal bed between Buffalo and Tonawanda, and filling in same creating new highway. G. C. Diehl, Ellicott Sq. Bldg., Buffalo, co. engr.

Power Line—New Jersey—Eastern New Jersey Power Co., Hightstown, plans 33,000 v. electric power line from Allenhurst to Belmar. $250,000. G. W. Michaels, 1305 2nd Ave., Asbury Park, supt.

Land Development—Raleigh, N. C.—R. G. Smith, Elkin, plans suburban development, here, incl. paving, sewers, lights, grading,

See proposal advertisements on page 220, Advertising Section.

Unclassified (Continued)

etc. $100,000. E. S. Draper, 11 East 5th St., Charlotte, engr.

Suburban Development—Salisbury, N. C.—Salisbury Development Co., plans developing 1,320 acres, incl. sewers, streets, etc., west of here. $200,000. R. M. Sigmon, asst. secy.

Seawall, etc. — Clearwater, Fla. — See "Streets and Roads."

Lighting System—Coral Gables, Fla.—See "Streets and Roads."

Causeway — Miami, Fla. — Everglades Ave. Causeway Assn., H. A. Brandt, vice pres., takes bids about Feb. 1, Everglades Causeway, 50 ft. wide, steel with piers, and 5 ft. walks on each side, etc. $675,000. Kackley, Reynolds & Lusk, Miami, engrs.

Parks, Docks, etc.—Miami Beach, Fla.—Voted $297,000 bonds for parks, docks, etc.

Pier—Miami Beach, Fla.—See "Bids Desired."

Swimming Pool — Cleveland, O. — City, F. S. Harmon, dir. Pub. Wks., making preliminary plans 1 story, 150 x 250 ft., concrete swimming pool, Woodland Hills Park. $100,000. S. Newman, City Hall, engr.

Grain Storage Bins—Indianapolis, Ind.—Acme-Evans Co., E. H. Evans, pres., 852 West Washington St., having plans prepared by Bacon & Tislow, engrs. and archts., 31 West Ohio St. No. 206, grain storage building, incl. 13 round bins, 110 ft. high, rein.-con., West Washington St. and White River. $90,000.

Docks, etc.—Chicago, Ill.—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Stadium — Chicago, Ill. — University of Chicago, 230 South Clark St., having sketches made by Holabird & Roche, 104 South Michigan Ave., concrete addition to Stagg Field (Stadium), 40,000 seating capacity, East 56th St. and Greenwood Ave.

Grade Crossing Abolition — Milwaukee, Wis. — R. E. Stoelting, comr. Pub. Wks., plans election in spring $1,000,000 bonds, grade crossing abolition. J. W. Schwada, City Hall, engr.

Street Lighting System—Milwaukee, Wis.—R. E. Stoelting, comr. Pub. Wks., plans election $80,000 bonds, extending street lighting system. J. Schwada, City Hall, engr.

Steam Turbine—Springfield, Mo.—Springfield Gas & Electric Co., Landers Bldg., A. E. Reynolds, mgr., plans 10,000 hp. steam turbine.

Subway—St. Louis, Mo. — See "Buildings—Commercial."

Transmission Lines — Texas — El Paso Electric Co., El Paso, making preliminary plans power transmission lines from plant at Fabens to other towns. $100,000 or more. Private plans.

Stadium—Dallas, Tex.—Southern Methodist University, c/o C. C. Selectman, pres., and L. W. Bailey, bus. mgr. purchased site and plans rein.-con. stadium, Abilene Rd. and Mockingbird Lane. $200,000. Architect not selected.

Electric Transmission Line—Oklahoma—Southwest Light & Power Co., Braniff Bldg., Oklahoma City, made preliminary plans 26 mi. electric transmission line from Waurika to Duncan through Comanche and Addington. $35,000. E. R. Ernsberger, pres.

Park Improvements—Chula Vista, Calif.—Plans election $51,000 bonds, park improvements.

Swimming Pool — Los Angeles, Calif. — City, making plans two 50 x 150 ft., rein.-con. swimming pools, 1 and 2 story, 30 x 400 ft. bathhouse, etc., at Griffith Park Municipal Playground Comn. Allied Architects Assn., Citizens Natl. Bank Bldg., archt. Plans later (2nd unit) incl. clubhouse, tennis courts, etc.

Subway—Oakland, Calif.—City, Alameda Co. and Southern Pacific R.R., 65 Market St., San Francisco, G. W. Boschke, ch. engr., plan subway under railroad tracks, foot 7th St. $400,000. City and Alameda Co. to pay ½ and Southern Pacific R.R. ½ of total cost.

Crusher Plant — Wilmington, Calif. — Union Rock Co., 1403 East 16th St., Los Angeles, plans crusher plant, Dominguerz Slough. To exceed $40,000. Engineer and architect not selected.

BIDS DESIRED

Subway—New York, N. Y.—Jan. 26, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., subway under and along 8th Ave. from 58th to 68th Sts.

Subway—New York, N. Y.—Jan. 29, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., subway along St. Nicholas Ave. from 149th to 160th Sts.

Subway—New York, N. Y.—Feb. 5, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., subway Route 78, Sect. 8, along Fort Washington Ave.

Swimming Pool—North Tonawanda, N. Y.—Jan. 8, by Bd. Educ. Union Free School Dist. 2, brick swimming pool. $80,000. Tooker & Marsh, 101 Park Ave., New York City, engrs. and archts. Noted Dec. 10.

Pier—Miami Beach, Fla.—Miami Beach Pier Corp., G. R. K. Carter, pres., 15 Ocean Dr., taking bids steel and concrete pier, incl. 1,000 kw. radio station, auditorium, 300 seating capacity, deck style promenade boardwalk extending 456 ft. into ocean, etc., Ocean Dr. and Biscayne Ave., $350,000; making plans for general contract of above, $800,000; also steel work contract for same, to Ingalls Iron Wks., 720 Ave. D, Birmingham, Ala., $100,000.

Foundation—Indianapolis, Ind.—Feb. 10, at office Trustees Indiana World War Memorial, Indiana World War Memorial Bldg., St. Clair and Meridian Sts., foundations for Building "A" of Indiana World War Memorial structure, bounded by Meridian, Pennsylvania, Michigan and Vermont Sts. Walker & Weeks, 1900 Euclid Ave., Cleveland, O., archts. Noted July 23.

Culverts—Eldorado, Kan.—See "Bridges."

Electric Transmission Line—Oklahoma—See "Contracts Awarded."

Generator Set, Boiler, etc. — Oklahoma City, Okla. — Oklahoma Gas & Electric Co., Insurance Bldg., taking bids new 27,000 hp. steam generator set, new 1,000 hp. boiler, condenser and auxiliaries, for the Harrah plant. Byllesby Eng. Co., 231 South La Salle St., Chicago, Ill., engrs.

BIDS RECEIVED

Borings—New York, N. Y.—Bd. Transportation, J. A. Delaney, chn., 49 Lafayette St., Jan. 4, land and water borings, South St., Manhattan Boro, East River from Fulton St., Manhattan, to Cranberry St., Brooklyn, Route 101, A-1, Agreement "EH," from E. J. Longyear Exploration Co., 710 Security Co., Indianapolis, Ind., $21,933. Noted Dec. 24.

Entrance, etc.—New York, N. Y.—Bd. Transportation, J. A. Delaney, chn., 49 Lafayette St., additional entrance stairway at Burnside Ave. Station, Agreement "EA," from Gibbs-Rice Corp., 2541 Aqueduct Ave., $5,527. Noted Dec. 24.

Stairway—New York, N. Y.—Bd. Transportation, J. A. Delaney, chn., 49 Lafayette St., Jan. 4, additional stairway, 86th St. station, Manhattan-Bronx Rapid Transit R.R., from Gibbs-Rice Corp., 2541 Aqueduct Ave., (unofficial) $18,500. Noted Dec. 24.

Grade Raising, etc.—Galveston, Tex.—Bd. Comrs., Dec. 18, grade raising, 5,500,000 cu.yd. sand filling by dredge from Galveston Bay, from United Dredging Co., 323 Security Bldg., $29.97 per cu.yd. Noted Dec. 3 under "Streets and Roads."

CONTRACTS AWARDED

Platform Extensions—Brooklyn, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, extending subway station platforms of Rapid Transit Railroads, here, to C. Meads & Co., 217 West 14th St., New York City, $365,000. Noted Dec. 17.

Subway—New York, N. Y.—Bd. Transportation, J. A. Delaney, chn., 49 Lafayette St., Dec. 31, constructing subway, Sect. 2, Route 102, along and under 8th Ave. from West 18th to 28th Sts., to G. H. Flinn, 17 Battery Pl. $5,020,000. Noted Dec. 24.

Borings—Phila., Pa.—Dept. of Pub. Wks., Bureau of Engineering, borings for Pennsylvania Terminal, West River Dr. between Spring Garden and South Sts., to J. N. Rulon, 1355 Colwyn St., $11,411. Noted Dec. 31.

Pier — Miami Beach, Fla. — See "Bids Desired."

Stadium—New Orleans, La.—Tulane University, concrete stadium, to O. M. Gwin, Union Indemnity Bldg., $249,900. Noted Dec. 3.

Heating and Ventilating, Rockford, Ill.—City, heating and ventilating in new Abraham Lincoln Junior High School, to Amer. Heating & Supply Co., Rockford, $148,000; plumbing, to Swords Bros., Rockford, $47,000.

Street Lighting System—Green Bay, Wis.—W. L. Kerr, city clk., bases and brackets for street lighting system on Bway., Walnut and Dousman Sts., to Green Bay Fdry. & Mchy. Co., South Bway., $3,850; installing same, to Outdoor Lighting Serv. Co., 6 North Michigan Blvd., Chicago, Ill., $19,775. Noted Dec. 17.

Street Lighting System—St. Louis, Mo.—Bd. Pub. Serv., 208 City Hall, 9,367 concrete lighting standards complete, 1,250,000 ft. trenching and backfill, 2,000,000 ft. No. 8 steel taped and 100,000 ft. primary 5,000 volt lead covered cable, etc., to A. M. Ryckoff, 527 Chemical Bldg., $1,229,771. Noted Dec. 24.

Transmission Lines — Arkansas—Arkansas Light & Power Co., Pine Bluff, will construct about 18 mi. 13,200 volt line, and 8 mi. re-insulated 66,000 volt line from Lewisville to Magnolia, by day labor. Private plans.

Speedway and Grand Stand—Webster, Tex.—Ship-Channel Development Co., c/o W. H. Myers, Rice Hotel, Houston, 1½ mi. speedway, 50 ft. wide, main grand stand 700 ft. long, 15,000 seating capacity, and secondary grand stand, 500 ft. long, etc., to Prince Speedway Constr. Co., c/o J. Prince, pres., Los Angeles, Calif., about $400,000.

Electric Transmission Line—Oklahoma—Oklahoma Gas & Electric Co., 112 North Bway., Oklahoma City, will build 63 mi. electric transmission line from Ardmore to Durant and from Ada to Sulphur, by day labor. $70,000. Byllesby Eng. Co., 231 South La Salle St., Chicago, Ill., engrs.

Swimming Pool—Santa Monica, Calif.—G. E. Naylor, 25th St. and Alta Ave., 25 x 60 ft., rein.-con. swimming pool, Brentwood Park, to A. Dick, 23 California Bank Bldg., $10,000.

Subway—Stockton, Calif.—City Council, Miner Ave. Subway, to Lewis & Green, Commercial Bank Bldg., $98,643. Noted Dec. 31.

Subways—Toronto, Ont.—See "Bridges."

Materials

PROPOSED WORK

Sand Grit, etc.—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rejected bids Dec. 24, 5,000 cu.yd. sand grit, 30,000 tons steam ashes, 350,000 gal. asphaltic macadam binder, and 600,000 gal. road oil for cold application. Will readvertise. Noted Dec. 17.

BIDS DESIRED

Road Oil—Miles City, Mont.—Jan. 25, by City, approximately 100,000 gal. road oil for streets. M. F. Mann, city clk.

Paving Blocks, etc. — Toronto, Ont. — Jan. 12, by T. Foster, mayor, City Hall, vitr. paving blocks, sewer brick, Portland cement, granite paving setts, iron and steel, rubber valves, hose, crushed stone and rubble stone, etc. $250,000. R. C. Harris, City Hall, engr.

Pipe, etc.—Toronto, Ont.—Jan. 12, by T. Foster, mayor and chn. Bd. Control, City Hall, 30 in. c.i. specials and 30 in. c.i. pipe, Tenders 74 and 75 respectively. $30,000. R. C. Harris, City Hall, engr.

BIDS RECEIVED

Sewer Pipe, Paving Blocks, etc.—Minneapolis, Minn.—F. S. Gram, city purch. agt., Dec. 15, 400 tons sewer castings, from Crown Iron Wks. Co., 1229 Tyler St. N.E., catch basins $55.70 per ton, manholes $51.90 per ton; 500,000 vitr. paving blocks, from Hydraulic Press Brick Co., 1250 Builders Exch. Bldg., $16.75 per M; vitr. sewer pipe, from Landers, Morrison, Christensen Co., 800 Builders Exch. Bldg., various sizes and prices; and segment block, from Red Wing Sewer Pipe Co., Red Wing, various sizes and prices. Noted Dec. 10.

CONTRACTS AWARDED

Paving Blocks—Long Island City, N. Y.—M. J. Shugrue, acting pres. Queens Boro, Queens Subway Bldg., 150,000 asphalt paving blocks for Dept. Highways, to Hastings Paving Co., 25 Broad St., New York City, $14,075. Noted Dec. 17.

Paving Blocks—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 50,000 asphalt paving blocks, to Hastings Paving Co., 25 Broad St., New York City, $87.50 per M; 50,000 wood paving blocks, to Southern Wood Preserving Co., 10 East 43rd St., New York City, $2,798; 25,000 vitr. paving blocks, to Terminal Supply Co., 350 Madison Ave., New York City, $1,485; 2,000 bags Portland cement, to Peace Bros., Inc., 57 North Lawrence St., Flushing, $1,360; and 864 lin.ft. 12 in. c.i. pipe, to J. Fox & Co., 233 Bway., $2,048. Noted Dec. 17.

See proposal advertisements on page 220, Advertising Section.

CONSTRUCTION NEWS

Engineering News-Record, Jan. 14, 1926

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Telephone line extension, exchanges, etc., Southern Bell Tel. Co., Missouri, plan to expend, $14,000,000.

Pipe mill, Sparrows point, Md., Bethlehem Steel Co., proposed, $10,000,000.

Paving program, Georgia State Highways, plan to expend during 1926, $8,000,000.

Road improvement program, Virginia State Highway, plans to expend during 1926, $4,745,000.

Hydro-electric development, Oroville, Calif., making preliminary plans, $4,000,000.

Widening and paving streets, Miami, Fla., bond election Feb., 10, $3,200,000.

Apartment, New York, N. Y., 61st St., and Central Park West, preparing plans, $3,000,000.

High school, Queens, N. Y., preparing plans, $3,000,000.

Bank and apartment, Chicago, Ill., M. S., Plotke, having sketches made, $2,750,000.

Bridges over Miami River, Fla., bond election Feb. 10, $2,150,000.

Bank and office building, Detroit, Mich., J. B. Book, Jr., plans, $2,000,000.

Art school, New Haven, Conn., Yale University, plans prepared, $2,000,000.

Bids Wanted On Big Jobs

Second track construction, M.P.R.R. Co., Missouri, 23-mi., soon takes bids, $3,300,000.

Office building, Chicago, Ill., Holabird & Roche, archts., take bids Jan. 21, $3,000,000.

Apartment hotel, Detroit, Mich., Weston & Ellington, engrs. and archts., bids opened Jan. 13, $2,500,000.

Lock and dam, Starved Rock, Ill., bid received, $1,465,832.

Large Contracts Let During Week

Office building, New York, N. Y., awarded to Starrett Bros., Inc., $10,000,000.

Subway, New York, N. Y., Sect. 2, Route 102, awarded to G. H. Flinn, $5,026,608.

Store and warehouse, Atlanta, Ga., awarded to B. W. Constr. Co., $3,000,000.

Motors building, River Rouge, Mich., awarded to J. N. Blair Constr. Co., $1,500,000.

Apartment hotel, Los Angeles, Calif., awarded to L. A. Housing Corp. $1,500,000.

Pulp and paper mill, Fort Alexander, Manitoba, awarded to Carter, Hall, Aldinger Co., Ltd., Winnipeg, $1,500,000.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Pa., Hollidaysburg—Boro Council, c/o H. L. Stultz, pres., plans election $78,800 bonds, storage reservoir and pipe lines, etc. D. A. McCloskey, boro mgr.

N. C., Roxboro—Town retained Spoon & Lewis, consult. engrs., 407-9 Amer. Bank Bldg., Greensboro, to prepare plans extending water and sewerage systems, street paving, etc.

Fla., Miami—Election Feb. 10, $600,000 bonds extending mains in various streets; also $750,000 bonds extending fire system, equipment and additions to high pressure system.

Tenn., Rutherford — Plans waterworks. $50,000.

Ill., Springfield—Plans mains in 18 blocks Keys Ave., 14th, 15th, 17th, Converse and Monroe Sts. $15,000. W. Seeley, City Hall, engr.

Wis., Williams Bay—O. J. Lee, village clk., making plans waterworks and sewerage systems. To exceed $15,000. W. G. Kirchoffer, 22 North Carroll St., Madison, engr. Noted Dec. 17.

Kan., Edwardsville—Election in January $25,000 bonds, new waterworks and sewers in various streets. Horner & Wyatt, 464 Bd. of Trade Bldg., Kansas City, Mo., engrs.

Neb., Rushville—Defeated $17,000 bonds, waterworks and distribution system. Noted Dec. 31.

Ark., Prairie Grove—Making preliminary plans waterworks and distribution system, gravity flow line type. $75,000. E. M. Ratliff, Stone Bldg., Fayetteville, engr. Noted Jan. 29, 1925.

Tex., Lometa—Voted $40,000 bonds complete waterworks. Address Mayor.

Tex., Wellington—Voted $200,000 bonds, waterworks extensions. C. B. Meyers, city secy. Engineer not selected.

Okla., Ft. Cobb—Defeated $40,000 bonds, waterworks. Noted Dec. 17.

Okla., Oklahoma City — Making preliminary plans 10 mi. c.i. mains in various streets. $125,000. B. M. Hart, city engr.

Okla., Okmulgee — Making surveys and borings storage dam and 5 mi. pipe line. L. F. Horza, 53 West Van Buren St., Chicago, Ill., engr. Noted July 23.

Ont., St. Catherines — Granthan Twp. making plans extending 15,000 ft. 6 in. and up, c.i. mains, etc. in various streets. $30,000. Rutherford & Smith, 24 Queen St., engrs. Noted Oct. 1.

Ont., Thamesford—City Council, J. A. Clark, chn., plans waterworks. $40,000.

Ont., Toronto—North York Twp., making plans extending 15,000-20,000 lin.ft. 6 in. c.i. mains, etc. in various streets. $50,000. James, Proctor & Redfern, 36 Toronto St., engrs.

Ont., Toronto—York Twp. plans 12,000 ft. 6 in. c.i. mains in Laxis and Yore Rds., Alywood, Glenhaven, Lonsborough, Richardson, Rosecliff and Westmount Aves. $25,000. F. B. Goedike, 40 Jarvis St., engr.

BIDS DESIRED

N. Y., New York — Jan. 20, by P. J. Dooling, comr. Purchase, Municipal Bldg., c.i. special and valve box castings, valves, hydrants, etc., to Dept. Water Supply, Gas & Electricity.

Pa., Mount Union — Jan. 29, by Boro. Council, C. R. Gracey, secy., Municipal Bldg., rock masonry dam at Singers Gap 6 mi. south of here, 4,000 cu.yd. earth and 7,000 cu.yd. rock excav., 3,500 cu.yd. rubble masonry and 7,500 cu.yd. cyclopean concrete; or Ambursen dam, 3,500 cu.yd. earth and 6,500 cu.yd. rock excav., 2,300 yd. concrete and 100,000 lb. reinforcing $80,000. D. W. Dillman, 91 Altoona Trust Bldg., Altoona, engr. Noted April 9.

Miss., Okolona—Feb. 5, by Town, 100,000 gal. steel standpipe on 125 ft. steel tower. A. C. Rowe, town clk. Noted Jan. 7.

O., Cincinnati—Jan. 21, by City Manager, 75 tons 4 in., 550 tons 6 in., 50 tons 8 in., 150 tons 10 in. and 50 tons 12 in. c.i. pipe to water distribution system. $50,000. C. Sherrill, City Hall, engr.

O., Dayton — Jan. 29, at office G. F. Baker, dir. Pub. Serv., City Bldg., Main Pumping Station and appurtenances, O. R. Hartzell, secy.; adv. E. N.-R. Jan. 14.

Ill., Northbrook — Jan. 19, by Bd. Local Impvts., Melzers Hall, watermains and sanitary sewers in various streets. $64,000. Consoer, Older & Quinlan, Marquette Bldg., Chicago, engrs.

Ill., Springfield—Jan. 18, by City Clerk, 17 m.g. centrifugal pump. Burns & McDonnell, 401 Interstate Bldg., Kansas City, Mo., engrs.

Wis., Milwaukee — Jan. 22, by J. W. Nicholson, dir. Central Bd. Purchase, 500 tons each 6 in. and 16 in. 1,000 tons each 8 and 12 in. Class C pipe, 125 tons special castings, 7 tons special 6 in. offsets, etc., for Water Dept.

Wis., Racine — Jan. 30, by Bd. Water Comrs., City Hall, filter plant with equipment, reservoir, wash water tank, c.i. pipe, valves, meters, wash water pump, etc. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, Ill., engrs.; adv. E. N.-R. Jan. 14. Noted Oct. 29.

Minn., Minneapolis—Jan. 18, by F. S. Gram, city purch. agt., hydrants, valves, etc., for Waterworks Dept. N. W. Elsberg, city engr.

Minn., St. Cloud—Jan. 19, by J. D. McKenzie, city clk., 2,030 lin.ft. 12 in. c.i. mains in various streets and 700 ft. 12 in. c.i. mains under and across Mississippi River. To exceed $15,000. A. W. Buckman, city engr.

Kan., Humboldt—Jan. 18, by City, C. H. Schaffner, city clk., reconstructing filtration plant, incl. aerator, mixing chamber, 2 filter units, house, 1 fully equipped 9 x 12 ft. filter, flow meter, etc. $14,985. E. T. Archer & Co., New England Bldg., Kansas City, Mo., engrs. Noted Nov. 19.

Neb., Dawson—Jan. 22, by C. W. Kimsey, village clk., waterworks, 35,000 gal. tank on 100 ft. tower to balcony erected on foundation, Alternate A, 40,000 gal. or Alternate B, 50,000 gal. tank on 100 ft. tower to balcony erected on foundation; 8,000 ft. 4- to 8-in. McWane precalked joint or DeLavaud Class 150 c.i. pipe, f.o.b. Dawson; 2,100 ft. 2 in. galvanized or c.i. pipe, f.o.b. Dawson, etc., Henningson Eng. Co., 12th and Harney Sts., Omaha, engrs. Noted Jan. 7.

BIDS RECEIVED

Wis., Wauwatosa—Bd. Pub. Wks., A. V. Brigham, secy., Jan. 4, from F. E. Kaminski, 745 46th Ave., West Allis, 1,370 ft. 6 in. mains in Lefeber Ave. at $2.19 per ft., 470 ft. 6 in. mains in 63rd St. $2.21 and 1,370 ft. 6 in. mains in 2nd Ave. $2.17; from A. H. Koch, 2917 Grand Ave., Milwaukee, 450 ft. 6 in. mains in Elm Lawn St. $2.30; from Shabart-Rauch, Inc., 1003 41st St., Milwaukee, mains in Wright St., 2,510 ft. 12 in. at $3.98, 35 ft. 8 in. at $6, and 110 ft. 6 in. at $5. Noted Dec. 24.

CONTRACTS AWARDED

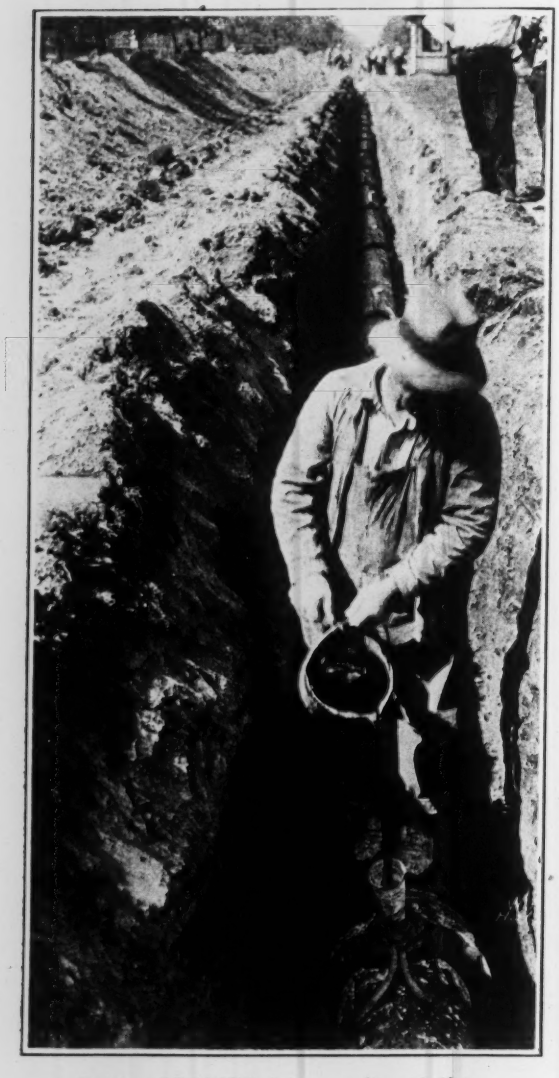
N. C., Greensboro — City Council, new 500,000 gal. steel tower, also dismantling, removing and re-erecting old tower on new site, to Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., $29,114. Noted Dec. 24.

Tenn., Nashville — For 35,000 ft. 12- to 36-in. c.i. pipe, to U. S. Cast Iron Pipe & Fdry. Co., Amer. Trades Bldg., Birmingham, Ala., $41.32; hauling and laying pipe, also 2 m.g. motor driven pumps, to E. J. Merkle, Kansas City, Mo., $131,250 and $11,000 respectively; stokers for furnaces, to Riley Stoker Corp., 9 Neponset St., Wooster, Mass., $18,406; coal and ash handling machinery, to Jeffrey Mfg. Co., East 1st Ave. and North 4th St., Columbus, O., $21,000; fire hydrants, to Keith-Simmons

See proposal advertisements on page 131, Advertising Section.

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office



Pouring LEADITE Joints on line of 12-in. c. i. bell and spigot water main.

Durable Pipe Joints

The wise man builds for the future. Supply lines and distribution systems are usually permanent installations.

Durability and quality should be the first consideration of the product used for making joints in cast iron bell and spigot water mains.

LEADITE is a good product and the leader in its field, because it has gained and retained the recognition, support and patronage of such a great number of water works men for so many years.

LEADITE has been tested and used for over 30 years, under all pressures and conditions, by water works, railroads, mines, contractors and industrial plants thruout the country.

Thousands of miles of pipe have been laid with LEADITE joints, on all sizes from 4 in. to 60 in. in diameter.

LEADITE takes the drudgery out of pipe laying; saves time, money and labor; makes flexible joints; makes joints which will stand vibration under tracks, over and under bridges; makes joints which resist electrolysis; eliminates large bell holes; reduces trench pumping and other work incidental to caulking—LEADITE requires no caulking.

Every water works man abreast of the times knows about LEADITE. LEADITE is an interesting and familiar topic at water works conventions and wherever water works men congregate.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%.

LEADITE is the pioneer self-caulking material for c. i. pipe
Be Sure It Is LEADITE
and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Waterworks (Continued)

Co., 414 Union St., $61.50 each. Noted Dec. 17.

Wis., Milwaukee—Central Bd. Purchases, meter cocks, couplings, corporation and curb cocks, to Rundle & Spence Mfgg. Co., 55 4th St., $12,456; 500 fire hydrants, to R. D. Wood & Co., 400 Chestnut St., Phila., Pa., $39,760; stop cock boxes, etc., to W. P. Taylor Co., 218 Ellicott St., Buffalo, N. Y., $6,112; gate and tapping valves, to Chapman Valve Mfg. Co., 650 West Lake St., Chicago, Ill., $31,130; and liquid chlorine, to Pennsylvania Salt Mfg. Co., 1000 Widner Bldg., Phila., Pa., $4,156. Grand total $93,-614. Noted Jan. 7.

Tex., Hedley—Waterworks, to J. Winslett, 1001½ Main St., Dallas, approximately $27,-000. Noted Dec. 3.

Sewers

PROPOSED WORK

Conn., Hartford — Takes bids in March new sewerage works, etc., one project for 7 in. conduit, $28,000. Total $56,000. R. N. Clark, city engr.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., rejected bids Dec. 29, sewers in Truxton and Waring Aves. Noted Jan. 7.

N. J., New Brunswick—North Brunswick Twp., H. Van Dewater, clk., Parsons School, plans approximately 1 mi. sewerage system, and disposal plant, here. $150,000. R. P. Wilson, 46 Patterson St., engr.

N. C., Roxboro—See "Waterworks."

Ill., Decatur — Made plans and surveys Riverside Sewer Project, 6 mi. 36- to 84-in. sanitary and storm sewers in south and southeast section of city connecting Sanitary Dist. system at Jackson and Garrison Sts. extending to Lost Bridge, 11th and Williams Sts. $300,000. M. P. O'Brien, City Hall, and Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs.

Ill., Lincoln — Made preliminary plans 6,650 ft. 50- to 54-in. main sewer connecting with main Bubicon sewer, and 7 mi. 8 and 12 in. tile laterals in 262 acres, west side. $150,000. E. Tobin, City Hall, engr.

Ill., Peoria—Plans 4 mi. new and larger sanitary sewers in Loop Dist. $200,000. W. E. Backes, City Hall, engr.

Ill., Rockford—City made plans and election probably in April, $1,000,000 bonds for Rockford Sanitary Sewer Dist. of trunk line main sewers, laterals and sewage treatment plant embracing 46 sq.mi. B. C. Harvey, City Hall, engr. Noted Aug. 20.

Ill., Springfield—Plans 16 blocks sanitary sewers in 14th St. from Cornell Ave. to Bunn Park, 14th St. from Washington to Reynolds Sts., and 14th St. from Ridgely St. to Griffiths Ave., also 11th, 15th and Miller Sts. $25,000. W. Seeley, City Hall, engr.

Ill., Springfield — Sanitary Sewer Dist. plans sewage treatment plant to handle sewerage from East and West Side Interceptors. $565,000. Dawson & Walraven, City Hall, dist. engrs. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs.

Wis., Beloit—Making plans concrete or vitr. storm sewers in 3rd St. and sanitary sewers in 10 streets, also booster station. To exceed $25,000. G. E. Heebink, City Hall, engr.

Wis., Brodhead — Plans election to exceed $25,000 bonds, sewerage system and disposal plant. J. W. Gardner, city clk. Engineer not selected.

Ia., Boone—Made plans sewage disposal plant. $100,000. Currie Eng. Co., Hamilton Co. Savings Bank Bldg., Webster City, engrs.

Ia., Winterset—Plans sanitary sewers in various streets. $30,000. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., engrs.

Neb., Elgin—See "Streets and Roads."

Okla., Ft. Cobb—Defeated $25,000 bonds, new sanitary sewerage system. Noted Dec. 17.

Okla., Oklahoma City—Takes bids about Apr. 1, 2 sewage disposal plants with auxiliary equipment, piping, etc. $950,000. B. M. Hart, City Hall, engr. Noted Dec. 31.

Calif., Los Angeles—Los Angeles Co. D.D. Impvt. 15, making plans approximately 26 mi. mains and laterals. To exceed $1,000,-000. F. Bates, 327 Bradbury Bldg., consult. engr. J. E. Rockhold, Hall of Records, co. surv.

Ont., Toronto — City Council plans vitr. tile sanitary and storm sewers in Hubbard Blvd., Power St., Craven and Manor Rds., Methuen, McRoberts, Hammersmith, Scarboro, Beach, Wineva, Bonfield and Selwood Aves. $65,000. R. C. Harris, Toronto, engr.

BIDS DESIRED

Pa., Phila.—Jan. 20, by Dept. Pub. Wks., Bureau of Engineering, main sewer in Rowland Ave. between Tudor and Bleigh Sts., and discharge pipes between Southwest Pumping Station at Eagle Creek. Former contract rescinded. G. H. Biles, dir. Noted Jan. 7.

Pa., Phila.—Jan. 20, by Dept. Pub. Wks., Bureau of Engineering, sewer and pumping station for South Phila. Impvt. Dist. south of Packard Ave. and west of Broad St.; also sewers in Wheatsheaf Lane. G. H. Biles, dir. Pub. Wks.

Ill., Northbrook—See "Waterworks."

BIDS RECEIVED

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, Jan. 6 (**e. e. means engineers' estimate**), sewers in Rutland Rd. and East 18th St., from Tomasetti & Co., Inc., 1133 60th St., 74% e. e. $10,143, and 67% e. e. $6,106 respectively. Noted Dec. 31.

Wis., Beaver Dam—W. A. Gergen, city clk., Jan. 4, extending sewers in 9 streets, 12,714 ft. 8- to 15-in. vitr. pipe and 3,096 ft. tunnel, 20- to 50-ft. deep, 27 manholes, etc., from Szukalski & Matke Co., 1089 American Ave., Milwaukee, $100,600. Noted Dec. 24.

CONTRACTS AWARDED

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Wicham and Provost Aves., to F. Spedero, 3883 Taddington Ave., $6,403 and $4,236 respectively; in Hobart Ave., to Fiorello & Kock, 1895 Belmont Ave., $1,300; in East 251st, St., to A. Spedero, 3883 Taddington Ave., $7,651. Grand total $19,-590. Noted Jan. 7.

D. C., Wash.— Distr. Comrs., District Bldg., to A. McCandlish Co., 1215 Harvard St., sewers in vicinity Upshur St. and 12th Pl. N. E., $3,153; to Kirwan Eng. Co., Baltimore, in vicinity 5th and Grant Sts. N. E., $1,944 and in 5th and Tuckerman Sts. N. W. $2,949; to G. B. Mullin, 1296 Upshur St. N. W., vicinity Nevada and Nebraska Aves. N. W. $11,680, 9th St. and Concord Ave. N. W. $5,882, 4th St. between Rittenhouse and Sheridan Sts. N. W. $1,463 and 13th and S Sts. S. E. $1,723. Grand total $28,793. Noted Dec. 17.

O., East Cleveland (Cleveland P. O.)—Sewers and water-mains in Doanwood St., to Iafornaro Constr. Co., 2280 Murray Hill Rd., Cleveland, $30,409.

Calif., Glendale — To B. D. Zaich, 220 West 56th St., Los Angeles, 25,488 ft. 8 in. vitr. and 14,000 lin.ft. house sewers, etc. in Sewer Dist. 1, $49,905. Noted Jan.

Calif., Los Angeles — For 8 in. cement and 9,995 ft. house sewers in portion of 13th Ave., to P. J. Akmadzich, 821 Yale St., $31,995; also 6- to 10-in. vitr. sewer and 19,050 ft. house laterals in Wilshire Blvd. between Federal St. and Bundy Dr., to M. Miller, 208 West 2nd St., $67,500.

Calif., San Diego—Sewers in Ocean Beach and Pt. Loma Heights, to DeWaard & Son, Granger Bldg., $25,905. Noted Jan. 7.

Ont., Toronto—To W. E. Taylor, 22 Falcon St., vitr. tile sewers in Belsize Dr., Sect. DE $1,347, Sect. EF $3,373, and Manor Rd. $7,083; to A. E. Jupp Constr. Co., 170 Berkeley St., Glenview Ave., $1,365, to Grant Contg. Co., 47 Wellington St. E., Glencairn Ave., $7,790; to A. Cavotte, 259 Euclid Ave., lane west of Campbell Ave. $1,383, lane west Bay St. $2,571, and lane west of Brunswick Ave. $1,322. Grand total $26,234.

Ont., Toronto—York Twp., to W. E. Taylor, 22 Falcon St., sewers in Dufferin St. $16,066, Arlington Ave. $1,896, to A. Cavotte, 257 Euclid Ave., Keele St. and Trowell Ave. $38,987, and Everden Dr. $26,-044, to J. D. Armstrong, 27 Alanson St., Hamilton, Kane Ave. $16,289, and Gloucester Grove, Bansley and Keywest Aves. $4,622, to Mitchell Contg. Co., 55 Greenside Ave., Regent St. $3,306, Northcliffe Blvd. $1,463, Clovelly Ave. $788, to J. Simpson, 227 Wychwood Ave., McRoberts Ave. $1,518; to J. Cles, 64 Earlsdale Ave., drain in Beresford Ave. $3,024, and to J. Bellow, 170 Eglinton Ave. W., in Lauder Ave. $2,688. Grand total $116,691.

Waste Disposal

PROPOSED WORK

Fla., Miami—Election Feb. 10, $400,000 bonds, addition to incinerator.

Mich., Kingsford (mail Iron Mountain)—Plans election $20,000 bonds, garbage incinerator. Engineer not selected.

Bridges

PROPOSED WORK

Virginia—See "Streets and Roads."

Fla., Miami—Election Feb. 10, $2,150,000 bonds, 5 new bridges over Miami River. Noted Jan. 7.

O., Girard — Bd. Comrs. Trumbull Co. made plans concrete bridge. $1,000,000. W. P. Brown & Co., Finance Bldg., Cleveland, engrs.

Ill., Chicago—H. E. Wallace, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., rejected bids Dec. 10 substructure and superstructure South Crawford Ave. Bridge. Will readvertise. Noted Nov. 19.

Ill., Decatur—Bd. Local Impvts., E. R. Elder, pres., soon takes bids new rein.-con. viaduct over Wabash R.R. tracks, at 7th St. $300,000. P. Oetzel, Court House, and M. O. O'Brien, City Hall, engrs. A. O. Cunningham, Decatur, consult. engr.

Ill., Peoria—Cities of Averyville (mail Peoria) and Peoria plan repairing Upper Free Bridge across Illinois River, here, incl. strengthening steel superstructure, rebuilding 0.75 mi. east side dike, etc. $25,000. W. E. Baskes, City Hall, engr. R. W. Putnam, War Dept., Chicago, dist. engr.

Kan., Fredonia—Wilson Co. making preliminary plans two 175 ft. bridges, probably rein.-con. and steel, with 20 ft. roadway over Fall River. E. C. Baity, Court House, engr.

Tex., Cameron—See "Streets and Roads."

Tex., Clairemont — See "Streets and Roads."

Tex., Huntsville — See "Streets and Roads."

Tex., Madisonville — See "Streets and Roads."

Tex., Sweetwater — See "Streets and Roads."

BIDS DESIRED

Pennsylvania—See "Streets and Roads."

South Carolina—See "Streets and Roads."

Ohio—See "Streets and Roads."

Kan., Hiawatha — See "Streets and Roads."

Kan., Independence — Jan. 29, by L. L. Kelly, clk. Montgomery Co., Court House, three 100 ft. and one 120 ft. Marsh arch bridge, 20 ft., also grading 0.229 mi. Federal Aid Project 199C. H. K. Hibbard, Court House, engr. Noted Jan. 7.

Neb., Fremont—See "Contracts Awarded."

Okla., Drummond — Jan. 18, by L. B. Lewis, clk. Garfield Co., Enid, 4 span 128 ft., rein.-con. and I-beam bridge, here. $35,-000. F. W. Dewier, Enid, engr.

BIDS RECEIVED

Florida — State Rd. Dept., Tallahassee, Jan. 6, 3 creosoted timber bridges totaling 375 ft., and 5 standard concrete slab bridges, 100 ft. also 80 ft. low steel truss bridge over Big Charlie Creek, Hardee Co., from J. S. Walton & Co., Bradenburg, Ky., $75,662; one 156 ft. double leaf bascule span bridge over East Coast Canal, and three 27 ft. concrete deck girder span bridge over Earmen River, Palm Beach Co., from Charlestown Eng. & Contg. Co., St. Augustine, $136,480; also twenty-one 27 ft. concrete deck girder and one 60 ft. double leaf bascule span bridge, Palm Beach Co., from Johnson Drake & Piper, 510 Meredian Ave., Miami, $256,586. Noted Aug. 6.

Kan., Oswego—Labette Co., Dec. 21, two 120 ft. and one 140 ft. span thru arch type bridge over Neosho River, and one 120 ft. thru arch span bridge over Hickory Creek, both on Parsons-Pittsburg Rd., from Sharpe Bros., Eldorado, $71,253 and $25,901 respectively, Engrs. ests. $77,561 and $31,-705 respectively. Noted Dec. 10.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, Jan. 5, 3 span, 135 ft. rein.-con. bridge over River Des Peres, at Southwest Ave., from J. J. Dunnegan, Manhattan and Picadilly Aves., $29,671. Engrs. est. $33,800. Noted Dec. 10.

Colorado—See "Streets and Roads."

CONTRACTS AWARDED

New Jersey and Pennsylvania — Joint Comn. for Elimination of Toll Bridges over Delaware River between New Jersey and Pennsylvania, Trenton, N. J., steel superstructure on existing piers of bridge across Delaware River, between Borough of Stockton, Hunterdon Co., N. J., and Centre Bridge, Bucks Co., Pa., to S. S. Thompson Co., Herbert St., Red Bank, N. J., $120,500. Noted Nov. 12.

Md., Baltimore—Bd. Awards, 800 ft. steel and concrete bridge, south of Smith Extension from Falls Rd. to east end of South Ave., to J. L. Robinson Constr. Co., 1130 West Lafayette Ave., $246,585. Noted Jan. 7.

See proposal advertisements on page 131, Advertising Section.

Quick-Hardening Concrete

Strong Concrete in *3 Days* with *Universal* Cement

Time often is the important item on new or repair work or for winter construction. In such cases, you do not want to wait the days usually allowed for concrete to harden. You do not need to. You can, with *Universal* cement, obtain quick-hardening, strong concrete in *3 days* by using the simple methods that thousands of laboratory tests and actual construction experience prove will give the desired results.

For example, with these methods and the proper precautions, a concrete pavement was built with *Universal* cement at Universal's Chicago Plant and put under heavy traffic when *less* than 3 days old. This has carried heavily loaded trucks for months without damage to the concrete.

Detailed information concerning the simple methods for obtaining quick-hardening, strong concrete in *3 days* with Universal cement will be furnished on request to

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland New York

Concrete for Permanence

Bridges (Continued)

Ala., Mobile—Mobile Bridge Co., Meaher Bldg., foundations and superstructure for bridge over Mobile Bay, to Kansas City Bridge Co., Orear-Leslie Bldg., Kansas City, Mo.; steel work to Virginia Bridge Co., 3000 8th Ave. N., Birmingham. Total $840,000. Noted Nov. 19.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, substructure for 90 ft. steel span, also 50 ft. and one 30 ft. concrete girder span, Route 30, Sects. 3-B and 8-B, Peoria Co., to Herrick Constr. Co., Carlinville, $20,363; superstructure for one 90 ft. steel span bridge, 77,900 lb. reinforcing on Route 30, Sect. 3-C, Peoria Co., to Clinton Bridge Co., 101 South 2nd St., Clinton, Ia., $5,702. Noted Dec. 31.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridge on Route 8, Sect. 44-B, Knox Co., to H. C. Homes, Macomb, $84,359; and bridge on Route 8, Sect. 42-B, Knox Co., to A. P. Munsen, Marion, Ia., $13,929. Noted Nov. 5.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., new pile and concrete bridge abutment and timber protection pier at Cherry St., to E. E. Gillen Co., 288 East Water St., $26,690. Noted Jan. 7.

Kan., Marion — Marion Co., to Yancey Constr. Co., Abilene, bridges on Federal Aid Project 226-A, 100 ft. steel span, 30 ft. deck girder approaches, $17,967, Bridge 070, 120 ft. steel span $16,266, Bridge Y7P, two 12 ft. rein.-con. slab $1,791, and Bridge Y8P, two 20 ft. rein.-con. slab $2,594. Grand total $38,618. Noted Nov. 12.

Neb., Fremont — Chicago, Burlington & Quincy R.R. Co., 547 West Jackson Blvd., Chicago, Ill., will rebuild 100 ft. steel span bridge on concrete piers, etc., over Platte River, here, by day labor. $25,000-$30,000. A. W. Newton, Chicago, Ill., ch. engr.

Missouri — State Hy. Dept., Jefferson City, to C. P. O'Reilly & Co., Wainwright Bldg., St. Louis, two 8 ft. concrete slab spans, etc. over stream $1,360, two 12 ft. rein.-con. slab spans, etc. over stream $3,218, two 20 ft. rein.-con. slab spans, etc. over Big Branch Creek $3,455, two 20 ft. rein.-con. slab spans, etc. over Doe Run $4,018, three 35 ft. deck girder spans, etc. over Buck Run $8,091, one 80 ft. steel truss and four 40 ft. rein.-con. deck girder spans, etc. over Honey Creek $19,908, all foregoing in Clark Co., one 24 ft. rein.-con. slab and one 35 ft. rein.-con. deck girder spans, etc. over Breton Creek, $4,883, three 80 ft. steel truss and three 40 ft. rein.-con. deck girder spans, etc. over Big River $28,013, one 80 ft. steel truss and seven 20 ft. rein.-con. slab spans, etc. $13,722, all in Washington Co.; to Summerfield Co., Billings, three 18 ft. and three 20 ft. rein.-con. slab spans, etc. over drainage ditch $12,824, three 24 ft. rein.-con. slab spans, etc. over D.D. 25 $6,665, three 25 ft. rein.-con. deck girder spans, etc. over D.D. 2 $6,581, one 40 ft. and two 30 ft. rein.-con. deck girder spans, etc. over D.D. 16 $2,080 and thirteen 20 ft. I-beam spans etc. over Black River overflow $13,540, all foregoing in Butler Co.; to Energy Coal & Supply Co., Poplar Bluff, one 120 ft. steel truss and thirty 40 ft. rein.-con. deck girder spans, etc. over Black River, Butler Co., $110,449; to E. H. Euler, Maysville, four 35 ft. rein.-con. deck girder spans, etc. over Bryant Creek, Douglas Co. $9,363, two 10 ft. rein.-con. slab spans, etc. over Dry Hollow $1,951, one 50 ft. rein.-con. deck girder span, etc. over Prairie Hollow $7,802, both in Wright Co.; to Humphrey & Stebbins, Fredericktown, two 40 ft. rein.-con. deck girder spans, etc. over Reeds Creek $5,847, one 40 ft. rein.-con. deck girder also two 23 ft. and two 20 ft. rein.-con. slab spans, etc. over Missouri Pacific R.R. tracks $10,986, both in Iron Co.; to C. L. Johnson & Sons, Buffalo, two 10 ft. rein.-con. slab spans, etc. over Barnett Branch $2,898, two 10 ft. rein.-con. slab spans, etc. over McVey Branch $4,000, 80 ft. steel truss and five 30 ft. rein.-con. deck girder spans, etc. over Goodwin Hollow, $16,195, all foregoing in Laclede Co.; to Thomas & Johnston, Doniphan, one 12 ft., two 14 ft. and two 24 ft. rein.-con. slab spans, etc. over drainage ditch, Stoddard Co., $10,503; to Pittsburgh-Des Moines Steel Co., 9th and Tuttle Sts., Des Moines, Ia., three 20 ft. rein.-con. slab spans, etc. over Whitcomb Creek, Lincoln Co., $4,820; to M. E. Gillioz, Monett, three 12 ft. rein.-con. slab spans, etc. over Dry Auglaize, Laclede Co. $2,654, one 40 ft. deck girder and two 20 ft. rein.-con. slab spans, etc. over creek, Benton Co. $4,718, and one 45 ft. deck girder span, etc. over Holt Creek, Dent Co., $5,941; to Carter Harlin Constr. Co., West Plains, one 40 ft. rein.-con. deck girder span, etc. over Arthur Creek, Texas Co., $4,824; and to Rouse Constr. Co., Cape Girardeau, one 35 ft. and two 40 ft. I-beam, also one 50 ft. steel truss spans, etc. over drainage ditch, New Madrid Co. $13,808, one 30 ft. I-beam and one 50 ft. steel truss spans, etc. over ditch, Scott Co., $1,876, one 50 ft. two 40 ft., one 44 ft. one 34 ft., and one 35 ft. I-beam, one 120 ft. steel truss, and two 24 ft. rein.-con. slab spans, etc. over drainage ditch, Stoddard Co., $32,983. Grand total $364,302. Noted Dec. 24.

Idaho—See "Streets and Roads."

Idaho, Twin Falls — Comrs. Twin Falls Co. (Twin Falls) and Jerome Co. (Jerome) cantilever type bridge over Snake River Canyon at Blue Lakes, here, to R. M. Murray, Hutton Bldg., Spokane, Wash., approximately $650,000.

Washington—State Hy. Dept., Olympia, approximately 2,475 ft. steel and concrete bridge over Columbia River on State Rd. 7, Vantage Ferry, Grant and Kittitas Counties, to Kuckenberg & Wittman Co., 226 Board of Trade Bldg., Portland, Ore., $628,496. Noted Dec. 17.

Dams

PROPOSED WORK

Calif., Fallbrook — See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

BIDS DESIRED

Pa., Mount Union—See "Waterworks."

Railways

PROPOSED WORK

Florida—City of Miami election Feb. 10, $350,000 bonds, extending railways in Miami.

Kentucky—Chesapeake & Ohio R.R. Co., W. J. Harahan, pres., Richmond, Va., making surveys 30 mi. extension to Pike Co., Ky. up Big Sandy River to tap coal and timber tracts. C. W. Johns, ch. engr.

Kentucky and Alabama — Florence, Clifton & Paducah R.R. Co., G. R. Johnson, genl. mgr., Waynesboro, Tenn., plans 125 mi. line from Florence, Ala. to Paducah, Ky.

Michigan—Detroit, Toledo & Ironton R.R., Dearborn, takes bids in February, constructing section Durban-Malinta cut-off, beginning at Petersburg. Also plans 5 mi. section from Malinta, O., to Maumee River. F. L. Rockelman, Dearborn, genl. mgr.

Illinois — Illinois Power Co., 400 East Monroe St., Springfield, A. D. Mackie, genl. mgr., plans double tracking and reconstructing approximately 1 mi. North 9th St. electric car line between Washington St. and North Grand Ave., in Springfield. $111,000.

Missouri—Missouri Pacific R.R. Co., Ry. Exch. Bldg., St. Louis, soon takes bids 23 mi. second track, etc., between Washington and Berger and between Algoa and Jefferson City. $3,300,000. E. A. Hadley, ch. engr.

CONTRACTS AWARDED

North Carolina—Snow Hill R.R. Co., 6 mi. line between Snow Hill and Hockerton to N. L. Teer, Durham. Above line operated by East Carolina R.R. Co., Tarboro.

Excavation, Drainage, Irrigation, Levees River and Harbor

PROPOSED WORK

Ill., Lincoln—Lake Forest D. D., Logan Co., made preliminary plans and surveys 7 mi. drainage ditch. $182,300. C. H. Kreiling, Havana, co. supt. Highways.

Ill., Peoria—See "Bridges."

Ill., Quincy—Long Island D. D., c/o J. S. Inghram, atty., Stern Bldg., making preliminary plans 1,056,067 cu.yd. hydraulic levee, 3,150 ft. riprapping, etc. $228,253. Goodell & Millard, Beardstown, engrs.

Wis., Madison—Common Council appropriated $200,000, dredging Lake Monona. W. R. Winckler, clk. Engineer not selected. Noted July 30.

Kan., Wichita — Plans levees and riprap along north and east bank of Little Arkansas River, $25,000; riprap along south bank Little Arkansas River from Forest Ave. to 11th St. $25,000, and along both banks of Little Arkansas River from 13th to 18th Sts., $25,000. P. L. Brockway, 1039 South Topeka St., engr.

Tex., El Jardin—Water Dist. 5, Cameron Co. election soon $500,000 bonds, concrete lined canals and drainage. W. Sethman, dist. mgr.

Tex., La Feria—Water Dist. 3, Cameron Co. election soon $300,000 bonds, drainage and canal improvements. W. W. Houser, dist. mgr.

Calif., Colusa — Reclamation Dist. 1004 making plans pumping plant, incl. 2 units, screw pumps of approximately 12,000 g.p.m. capacity, automatic control, etc. C. W. Levisee, 627 Jay St., engr.

Calif., Fallbrook — Fallbrook Irrigation Dist. making plans 8,000 lin.ft. 24 in. riveted steel pipe line, 800 ft. concrete arch masonry overflow type dam, 150 ft. high and 10 ft. wide at top, etc. $700,000 or more. J. B. Lippincott, Petroleum-Securities Bldg., Los Angeles, engr.

Calif., Nestor — Tia Juana Irrigation Dist. making plans pumping plants, etc. or rein.-con. pipe system, reservoir, 40 ft. high 600 ft. long on top, 100 ft. wide, earth fill with concrete water face. To exceed $200,000. J. V. Covert, National City, engr.

BIDS DESIRED

N. J., Allenhurst—Feb. 8, by J. Strollo, engr., Brent Good Bldg., Long Branch, 1st section, 300 ft. (total 600 ft.) stone break water jetty along ocean, foot of Cedar Ave., here, for Town Bd. Comrs. $62,000.

N. J., Newark—Jan. 20, by T. L. Raymond, dir. Pub. Affairs, City Hall, approximately 5,000 lin.ft. wash borings, at Port Newark Terminal; adv. E. N.-R. Jan. 14.

Fla., Stuart—Feb. 10, by Bd. Comrs. St. Lucie Inlet Dist., jetties at St. Lucie Inlet. J. M. Braxton, 350 St. James Bldg., Jacksonville, ch. engr.; adv. E. N.-R. Jan. 14.

Calif., Casa Grande — See "Contracts Awarded."

Calif., Merced—See "Contracts Awarded."

BIDS RECEIVED

Illinois—Dept. Purchases & Construction, State House, Springfield, Jan. 5, Starved Rock Lock and Dam on Illinois River near Ottawa, 409,000 cu.yd. excav., 98,200 cu.yd. concrete and 766,000 lb. iron and steel, from Woods Constr. Co., Lincoln, Neb., $1,475,832; Brandon Rd. Pool at Joliet, 202,000 cu.yd. excav., 150,000 yd. concrete and 2,000,000 lb. steel and iron, from H. E. Culberton Co., Hanna Bldg., Cleveland, O., $1,590,150. Noted Dec. 10.

CONTRACTS AWARDED

Calif., Casa Grande—Water Users Assn., will repair and enlarge Pacheco reservoir, approximately 100,000 cu.yd. dragline work, by day labor.

Calif., Merced—Merced Irrigation Dist., Merced Co., will clean 7 mi. irrigation canal, 20,000 cu.yd. excav., by force account. Former bid rejected. Noted Dec. 17.

Calif., Richmond—Dredging 180,000 cu. yd. in Inner Harbor, to Pacific Coast Dredging Co., 112 Market St., San Francisco, approximately $42,000. Noted Dec. 17.

Ont., Midland—See "Unclassified."

Streets and Roads

PROPOSED WORK

Conn., Hartford—Plans asphalt on concrete paving 920 sq.yd. Archt St., 12,875 sq.yd. Asylum St., 8,048 sq.yd. Blue Hills Ave., 600 sq.yd. Connecticut Blvd., 7,835 sq.yd. Elm St., 1,450 sq.yd. Hicks St., 4,800 sq.yd. Hudson St., 6,000 sq.yd. Laurel St., 19,880 sq.yd. New Britain Ave. and 867 sq.yd. State St.; concrete paving 3,450 sq.yd. Holcomb St.; and asphalt on macadam paving 1,435 sq.yd. Windsor St. $283,075. R. N. Clark, city engr.

New York — A. W. Brant, comr. Highways, Albany, withdrew bids Dec. 18, improving 0.84 mi. Truxton-DeRuyter Highway, Part 2, Cortland Co. $63,883. Noted Dec. 3.

N. J., Little Silver—Monmouth Co. (Freehold) plans paving approximately 1 mi. Harding Rd. through here. G. K. Allen, 60 Broad St., Red Bank, engr.

Pa., Pittsburgh — City soon takes bids paving Cooper St. $25,000. F. W. Lyon, Bureau of Engineering, city engr.

Virginia — State Hy. Comn., Richmond, plans to expend during 1926 $4,745,000, improving roads, bridges, etc., in Richmond, Lynchburg, Culpeper, Staunton, Fredericksburg, Suffolk, Bristol and Salem Dists. H. G. Shirley, chn.

N. C., Roxboro—See "Waterworks."

Georgia—State Hy. Comn., East Point, plans to expend during 1926, $8,000,000, improving roads in various counties. J. N. Holder, chn.

Fla., Miami—Election Feb. 10, $3,200,000 bonds, widening and paving various streets.

Mississippi — State Hy. Dept., Jackson, plans improving 7.9 mi. Federal Aid Project

See proposal advertisements on page 131, Advertising Section.

BRIXMENT FOR PERFECT MORTAR

The architects who specify BRIXMENT *exclusively* for mortar are growing in number each day. They know that writing BRIXMENT into the specifications predetermines maximum and uniform strength, architectural charm and real economy. They know that BRIXMENT mortar is the one mortar that combines to such a high degree *all* the essentials of the best, most enduring masonry. BRIXMENT does not fade mortar colors, does not scale or pop and grows stronger with age. Especially adaptable to winter use. Interesting handbook and list of prominent BRIXMENT buildings on request.

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BRIXMENT

Streets and Roads (Continued)

62, Wilkinson Co., $80,000; also 32.2 mi. Federal Aid Project 62, Marshall and Lafayette Counties, $500,000.

Miss., Ripley—Tippah Co. plans election $100,000 bonds, improving various roads.

Louisiana — Bossier Parish (Benton) voted $1,630,000 bonds, concrete paving 13 mi. Bossier City-Benton Rd., 13 mi. Bossier City-Creighton Rd., and 11 mi. Bossier City-Minden Rd.; graveling 22 mi. from Benton and Arkansas line, 16 mi. Plain Dealing-Serepta Rd., 15 mi. Benton-Bellevue Rd., 26 mi. Bellevue-McDade Rd., 3 mi. Oil Field Lateral Rd., 3 mi. Koran Lateral Rd., 20 mi. Hughes Spur-Cotton Valley Rd., and 7 mi. Bollinger-Red River Rd.

La., Baton Rouge—East Baton Rouge Parish, plans hardsurfacing 25 mi. 2 projects, 1 includes 14 mi. Jefferson Highway from Baton Rouge to Hopeville.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 10 mi. Ripley-Haywood Co. line Rd. C. N. Bass, acting comr.

Tenn., Nashville — Making preliminary plans and surveys "Haggard Boulevard," scenic drive along Cumberland River. To exceed $25,000. W. W. Southgate, City Hall, engr.

O., Carrollton—Carroll Co. plans widening 4.5 mi. road between Carrollton and Harlem Springs, 18 ft. $35,000.

O., Cleveland—Cuyahoga Co. takes bids in spring bituminous topping 3 mi. Pettibone Rd., 16 ft., $50,000; and paving 1.3 mi. Snow Rd., 18 ft., $90,000. F. Lander, Court House, engr.

O., Kenmore—Takes bids in spring resurfacing Kenmore Blvd., widening same 4 ft. and extending south side to Manchester Rd. $30,000-$45,000. D. Dowling, Kenmore, engr.

O., Lisbon—Columbiana Co. takes bids in February paving 4 mi. East Liverpool-Youngstown Rd., 16 ft., concrete $153,380, vitr. block $206,784; also concrete paving 0.75 mi. Main St. in Salineville, 30 ft., $26,000. L. C. Kirk, Lisbon, engr.

O., Youngstown — Mahoning Co. takes bids in spring concrete paving 2 mi. Roller Rd. $60,000-$75,000, 5 mi. North Benton-Damascus-Princeton Rd. $150,000, and 2.5 mi. Sharott Rd. in Boardman Twp. $60,000; and macadam surfacing 2 mi. Southern Blvd. extension. $75,000, all above 16 ft.

Ind., South Bend—C. Sedgwick, aud. St. Joseph Co., takes bids about Mar. 22, grading and concrete paving, etc., 10,000 sq.yd. Olive St. Rd., $32,800; concrete paving 38,100 sq.yd. Liberty Highway, $104,000; graveling, etc., 3 mi. Erhard-Johnson Rd., 14 ft., $36,000; 12 in. graveling 2¾ mi. Silver Rd., 14 ft., $37,000. P. R. Gillin, Court House, engr.

Michigan — State Hy. Comn. at office comrs. Alcona Co., Harrisville, rejected bids Dec. 18, graveling 11.033 mi. State Trunk Line Road 72-3, 16 ft. G. A. Dillman, Lansing, engr. Noted Dec. 10.

Ill., Decatur—Takes bids in spring grading, curbing and 2½ in. brick on concrete paving 7 blocks East Eldorado St., 40 ft. $49,237. M. P. O'Brien, City Hall, engr.

Ill., Galesburg—Knox Co. plans grading, curbing and rein.-con. or vitr. brick paving 14 blocks Mulberry St. from Pine to Illinois Sts., and Day St. from Mulberry to 4th Sts. $50,000. A. L. Richey, City Hall, engr.

Ill., Kewanee—Henry Co. plans grading, curbing and vibrolithic concrete, rein.-con., vitr. brick or warrenite-bitulithic paving Pine St. from Elliott to Beach Sts., Columbus Ave. from 5th Ave. to alley ¾ block west, and George St. from Roosevelt to Division Sts. $25,000; also 1st St. from Chestnut to Grove Sts., Lexington Ave. from 2nd St. to Central Blvd., and Cottage St. from 2nd St. to Central Blvd., $45,972-$54,374. B. C. Palmer, city engr.

Ill., Peoria—Making plans probably asphalt on present brick resurfacing 30 blocks Washington St., 60 ft. $50,000. W. E. Backes, City Hall, engr.

Ill., Peoria — Soon takes bids grading, curbing and brick or asphalt paving 3 blocks South Jefferson St., 60 ft. $25,000. W. E. Backes, City Hall, engr.

Ill., Rockford — Winnebago Co. plans grading, curbing and brick, concrete or asphalt paving about 2 mi. portions East State St., Dawson, Welty and North Rockford Aves. $81,680. B. C. Harvey, City Hall, engr.

Ill., Springfield — Making plans, curbing and concrete or brick paving 3,000 ft. Lawrence Ave., 24 ft. $35,000. W. Seeley, City Hall, engr.

Ill., Springfield — Making plans curbing and brick on concrete surfacing 4 blocks Jefferson St., 40 ft. $33,500. W. Seeley, City Hall, engr.

Ia., Council Bluffs—Making preliminary plans grading, curbing and paving 23 blocks Avenue A.

Kan., Ft. Scott—Bourbon Co. plans improving, resurfacing and tarviaing 6 mi. Ft. Scott-Pittsburg Highway, and 3.5 mi. Ft. Scott-Nevada Rd., each to exceed $25,000. B. Boyle, Ft. Scott, engr.

Kan., Kansas City—Making preliminary plans concrete paving 18th St. $40,000. R. L. McAlpine, 1721 Orville Ave., engr.

Kan., Ottawa — Plans one course 3 in. vitr. brick paving various streets. To exceed $25,000. W. S. Williams, mayor.

Kan., Parsons — Plans asphalt paving various streets. To exceed $25,000. F. W. Frye, city clk.

Kan., Troy—Doniphan Co. takes bids in April, grading, etc., 11 mi. various roads. H. L. Parker, Court House, engr.

Kan., Wichita—Plans paving various streets in residential section. To exceed $25,000. P. L. Brockway, 1039 South Topeka St., engr.

Neb., Elgin — Making plans paving and sanitary sewers in various streets. To exceed $25,000. H. A. Davis, Crete, engr.

Neb., Ord—Making plans paving various streets. To exceed $25,000. H. A. Davis, Crete, engr.

Wyoming — State Hy. Dept., Cheyenne, plans improving 47.7 mi. Federal Aid Project 191, Sweetwater Co. $560,000.

Mo., Kansas City — Making plans asphaltic concrete paving Brookside Blvd. To exceed $25,000. P. M. McGeehan, city engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, made plans amiesite, asphalt or Warrenite bitulithic paving 23,160 sq.yd. 9th St. from Hempstead to Branch Sts. $75,000, 76,320 sq.yd. Kings Highway, $244,000, and 9th St. between Bremen and Angelica Sts. $13,400; also granite block, shallow granite block or vitr. brick paving 7,075 sq.yd. 9th St. from Branch to Bremen Sts. $37,000-$56,000. W. W. Horner, 300 City Hall, engr.

Tex., Abilene—Making preliminary plans curbing, guttering and hard paving about 6 blocks Ambler Ave. from Grape to Pine Sts. $35,000. O. K. Hobbs, city engr.

Tex., Austin—Travis Co. making plans bituminous macadam paving 7.89 mi. State Highway 20, Federal Aid Project 304, Unit 2, 18 ft. $80,670. J. E. Motheral, 722 Congress Ave., engr.

Tex., Cameron — Milan Co. takes bids after Jan. 20, grading and bridging 15.06 mi. State Highway 43, Federal Aid Project 494-A. $120,000. A. F. Mitchell, c/o Courthouse, engr.

Tex., Cameron—Milan Co. making plans grading and bridging 15.06 mi. State Highway 43, Federal Aid Project 494-A, 26 ft. $120,000. A. F. Mitchell, Cameron, co. engr.

Tex., Gonzales — Gonzales Co. making plans bituminous on sledged stone surfacing 8.08 mi. State Highway 81 from Smiley to Wilson Co. line, 18 ft. $133,000. J. G. Irby, Gonzales, co. engr.

Tex., Huntsville — Walker Co. making plans grading and bridging 17.27 mi. State Highway 45, 26 ft. $110,000. D. K. Caldwell, Huntsville, co. engr.

Tex., Lubbock—Lubbock Co. made plans caliche surfacing 14.95 mi. State Highway 70, State Aid Project 645-A. $100,000. B. K. Garrett, Lubbock, co. engr.

Tex., Madisonville—Madison Co. making plans grading and bridging 12.56 mi. State Highway 21, Federal Aid Project 490-A. $93,600. A. McCormack, Madisonville, engr.

Tex., Nacogdoches — Nacogdoches Co. plans gravel surfacing 11 mi. Chireno-Martinsville Rd. in Rd. Dist. 1, 16 ft. $30,000. A. T. Russell, Nacogdoches, co. judge. Engineer not selected.

Tex., Sweetwater — Nolan Co. making plans and soon takes bids grading, bridging and waterbound macadam paving 9.1 mi. State Highway 7 from Roscoe to Mitchell Co. line, 18 ft. $156,400. J. A. Focht, Sweetwater, co. engr.

Oklahoma — State Hy. Dept., Oklahoma City, making plans waterbound macadam surfacing 63,300 sq.yd. Fairfax-Ralston Rd. $90,000. J. M. Page, highway engr.

Okla., Chandler—Lincoln Co. plans election $700,000 bonds, paving various roads. J. M. Page, Capitol Bldg., Oklahoma City, highway engr.

Okla., Durant—Plans rock asphalt repaving 58,000 sq.yd. Main St. $82,800. L. V. Stinson, Durant, engr.

Calif., Chico — Making plans improving district bounded by Bway., 5th St., Chico Creek, and Southern Pacific R.R. tracks. To exceed $25,000. R. Witt, city engr.

Calif., Los Angeles — City and Los Angeles Co. making plans 8 in. concrete paving San Fernando Rd. between San Fernando and Burbank. To exceed $250,000.

Calif., Los Angeles — Los Angeles Co. made plans improving portion of Bellview Ave., 10,514 cu.yds. excav., 195,172 sq.ft. concrete paving, 202,216 sq.ft. disintegrated granite sub-base, etc., to exceed $65,000; Impvt. 324, 6,029 cu.yds. excav., 20,494 ft. curbing 67,122 sq.ft. walks, 43,284 sq.ft. 6 in. concrete guttering, etc. to exceed $35,000; Santa Fe and Independence Aves., Impvt. 456, 7,804 cu.yds. excav., 86,361 sq.ft. 6- to 8-in. and 196,123 sq.ft. 7- to 9-in. concrete paving, etc., to exceed $150,000. J. E. Rockhold, Hall of Records Bldg., Los Angeles, co. surv.

Calif., San Diego — Common Council plans improving Dale St., 81 sq.ft. concrete sidewalk, 42 lin.ft. concrete curbing, and 149,996 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete paving, etc.; Draper, Bonair, Marine and Genter Sts., 14,443 cu.yd. excav., 11,300 lin.ft. concrete curbing, etc. F. A. Rhodes, city engr.

Calif., San Diego—Common Council plans improving Louisiana and Texas Sts., 5,172 sq.ft. concrete sidewalk, 1,170 lin.ft. concrete curbing, 102,699 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete paving, etc.; also Greely Ave. and 32nd St., 37,893 sq.ft. concrete sidewalk, 9,052 lin.ft. concrete curbing, 17,492 cu.yd. excav. etc. F. A. Rhodes, city engr.

Ont., Almonte—Plans curbing, guttering and asphalt on concrete paving 5,000 sq.yd. various streets. $25,000. S. B. Code, Smith's Falls, engr.

Ont., Pembroke — Renfrew Co., County Bldg., plans rock and earth grading, graveling and permanent paving, etc. various roads. $70,000. W. J. Moore, Pembroke, engr.

Ont., Toronto—City Council plans curbing, guttering and concrete paving lane west of Spandina Ave., $8,548; asphalt paving Spencer Ave. $12,309 and Dunn Ave., $19,738; also concrete sidewalks on Gerrard St. E., $789, Greer Rd. $1,048, Glen Manor Dr., $7,619, and Mount Pleasant Rd. $13,293. R. C. Harris, City Hall, engr.

BIDS DESIRED

New Jersey—Feb. 3, by Bd. Freeholders Monmouth Co., Court House, Freehold, C. E. Cole, clk., rein.-con. repaving 0.79 mi. Rumson Rd. 47; also 3 in. sheet asphalt on 6 in. concrete paving 1.65 mi. Cedar and Westwood Aves., in Long Branch. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr.; adv. E. N.-R. Jan. 14.

Pennsylvania—Feb. 19 and 20, by State Hy. Dept., Harrisburg, grading, rein.-con. paving approximately 76 mi. 22 projects in 20 counties; also constructing 2 rein.-con. and steel viaducts. W. H. Connell, engr. executive and deputy secy. of highways; adv. E. N.-R. Jan. 14.

Virginia — Jan. 28, at office State Hy. Comn., Richmond, bituminous macadam surfacing 0.698 mi. Route 33, Sect. F-118-G, Franklin Co. and 4.65 mi. Route 21, Sect. F-421, Page Co.; bridges on Route 18, Sect. F-207 Nelson Co., Route 27, Sect. S-279-B Norfolk Co., Route 31, Sect. F-358-I Hanover and Caroline Counties and Route 13, Sect. F-409 Essex and Richmond Counties; adv. E. N.-R. Jan. 14.

South Carolina—Jan. 19, by State Hy. Comn., Columbia, sand clay surfacing 10.9 mi. State Route 24, State Project S-589-B, also two treated timber bridges, one 24-15 ft. span and other 7-19 ft. span over Edisto River, also 1.6 mi. State Route 45, State Project S-588-B, incl. 6,682 lb. reinforcing, Orangeburg Co., A. T. Brown, Orangeburg, engr.; 1.9 mi. State Route 40, Federal Aid Project 241-B, incl. 5-15 ft. span treated timber bridge, Horry Co., H. G. Jones, Florence, engr.

N. C., Asheville — Jan. 21, by F. A. Humphreys, 16½ Patton Ave., concrete paving 80,000 sq.yd. various streets; adv. E. N.-R. Jan. 14.

Miss., Holly Springs — Jan. 18, by Bd. Supervs. Marshall Co. grading, gravel surfacing, etc. 2.2 mi. Federal Aid Project 66-B, 18 ft. H. C. Deitzer, Jackson, engr.

Louisiana—Jan. 26, by State Hy. Comn., Baton Rouge, graveling 6.82 mi. Crowley-Eunice Highway, State Project 522-A, Acadia Parish. W. B. Robert, Reymond Bldg., Baton Rouge, highway engr.

Louisiana—Jan. 26, by State Hy. Comn., Baton Rouge, graveling 8.49 mi. Jena-Jonesville highway, Federal Aid Project 166, Catahoula Parish. W. B. Robert, Reymond Bldg., Baton Rouge, engr.

Ohio—Jan. 22, by Dept. Highways & Pub. Wks., Columbus, grading and concrete, rein.-con., bituminous concrete, brick, macadam or bituminous macadam paving 27.872 mi. roads in Ashtabula, Brown, Butler, Cuyahoga, Geauga, Jackson, Mahoning, Summit and Washington Counties; and bridges in Jackson and Washington Counties. G. F. Schlesinger, dir.

Indiana—Jan. 27, by J. D. Williams, dir. State Hy. Comn., Indianapolis, **(F. A. P. means Federal Aid Project and S. A. P.**

See proposal advertisements on page 131, Advertising Section.

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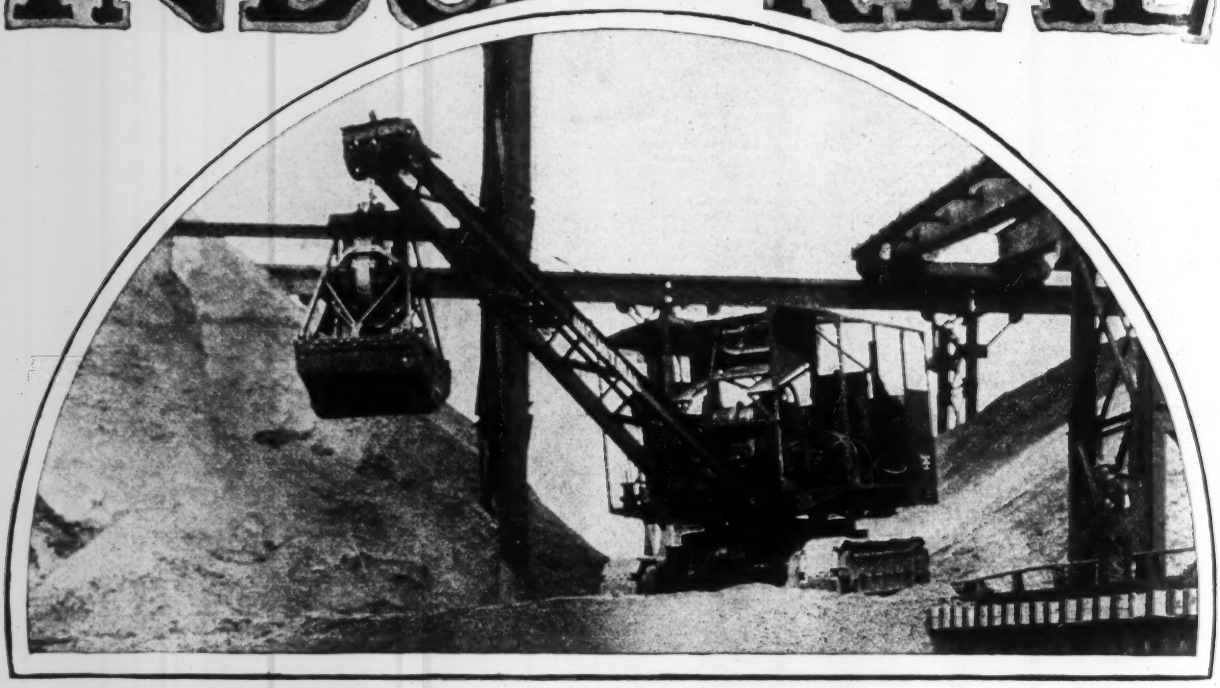

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Streets and Roads (Continued)

means **State Aid Project**), concrete, brick or bituminous concrete paving approximately 9.585 mi. F. A. P. 54, State Rd. 25, Steuben Co., 9.244 mi. F. A. P. 69-A, Rd. 10, Benton Co., 8.078 mi F. A. P. 76, Rd. 10, Vigo and Parke Counties, 5.596 mi. F. A. P. 78-A, Rd. 10, Knox Co., 5.04 mi. F. A. P. 78-B, Rd. 10, Knox Co., and 8.335 mi. F. A. P. 98-A, Rd. 7, Huntington Co.; grading, etc., 4.582 mi. S. A. P. 16-GA, Rd. 16, Spencer Co., and 4.659 mi. S. A. P. 16-GB, Rd. 16, Spencer Co.

Ill., Oneida — Ontario Twp. taking bids 60,000 gal. Illinois E. 2 and 3 specifications road oil on various streets. G. Peterson, comr.

Ill., Sycamore — Jan. 25, by Bd. Local Impvts., grading, curbing, guttering and rein.-con. paving 37,120 sq.yd. various streets. W. M. Hay, Leslie Bldg., De Kalb, engr. Noted Dec. 24.

Wis., Kenosha—Feb. 25, by C. M. Osborn, city mgr., rein.-con., sheet asphalt, asphaltic concrete or vitr. brick paving approximately 7.5 mi. various streets, 24 to 36 ft. R. M. Smith, City Hall, engr.

Ia., Council Bluffs — Jan. 18, by City Clerk, sheet asphalt, asphaltic concrete, Warrenite bitulithic or brick paving 29,630 sq.yd. various streets. J. H. Mayne, Council Bluffs, engr.

Minnesota—Feb. 9, by State Hy. Dept., St. Paul, paving 3.3 mi. White Bear-Hugo Rd. $56,000, 4.9 mi. Hugo-Forest Lake Rd. $83,000, 4.5 mi. Forest Lake-Wyoming Rd. $77,000, 1.2 mi. road from Wyoming eastward $25,000, 2.7 mi. road near Barnum $50,000, 13.6 mi. Barnum-Otter Creek Rd. $231,000, and 3.4 mi. Otter Creek-Carlton Rd. $57,000. Eng. Dept. state highway, engrs.

Minn., Fergus Falls — Feb. 1, by H. W. Collins, city clk., paving, curbing and 7.5 in. rein.-con. paving approximately 24,050 sq.yd. various streets. $60,000. S. A. Siverts, Jr., 300 Builders Exch. Bldg., Minneapolis, engr.

Kan., Concordia—Feb. 4, by Clerk Cloud Co., improving 6.297 mi. Federal Aid Project 185-B, 38,538 lb. reinforcing, 824 ft. 15- to 24-in. rein.-con. pipe, 145 cu.yd. slope walls, 5,430 ft. guard fence, 47,004 cu.yd. earth and 3,450 cu.yd. rock excav., 2,745 cu.yd. borrow, etc. L. T. Dudley, Concordia, co. engr. Noted Nov. 12.

Kan., Erie—Feb. 5, by Clerk Neosho Co., grading and concrete paving 24,756 sq.yd. Federal Aid Project 334-A. C. P. Donald, Erie, engr.

Kan., Hiawatha—Jan. 22, by F. A. Ford, clk. Brown Co., grading and bridging 6.854 mi. Federal Aid Project 244-A. S. K. McGary, Court House, engr.

Kan., Independence—See "Bridges."

Kan., Independence—Jan. 21, by L. Kelly, clk. Montgomery Co., Court House, bituminous macadam paving 0.679 mi. Sect. "J" and 0.9798 mi. Sect. "F" Federal Aid Project 121, 18 ft. H. K. Hibbard, Independence, engr.

Kan., Labette—Comrs. Labette Co. taking bids graveling, etc., 5.13 mi. Federal Aid Project 214, Sect. A, 18 ft. H. K. Shidler, Court House, engr.

Mo., Neosho — Jan. 17, by City Clerk, grading, curbing, concrete and vibrolithic concrete paving, etc. various streets. To exceed $25,000. Black & Veatch, 700 Mutual Bldg., Kansas City, engrs.

Tex., Beaumont—Jan. 25, by A. C. Love, engr., Beaumont, asphalt on limestone paving about 5 mi. Magnolia Ave., Lucas St. and Colliers Ferry Rd. to Country Club and Ferry at Neches River, for Jefferson Co. $75,000.

Tex., Gilmer—Jan. 25, by L. G. Martin, city secy., brick on concrete paving 27,000 sq.yd. various streets, for City. $80,000. Municipal Eng. Co., 602 Praetorian Bldg., Dallas, engrs.

Calif., San Diego—Jan. 25, by Common Council, improving Front, Upas and Thorn Sts., 122,192 sq.ft. 1½ in. asphaltic concrete on 2½ bituminous paving, 591 cu.yd. excav., etc. F. A. Rhodes, city engr. Noted Dec. 17.

BIDS RECEIVED

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, Jan. 6, from Uvalde Asphalt Co., 1 Bway., New York City, grading, curbing and permanent asphalt paving Autumn Ave. $4,892, East 18th St. $10,507, Newport St. $4,821, from Turecamo Contg. Co., 8706 Bay 12th St., 61st St. $6,673, 66th St. $7,588 and 82nd St. $10,018, from Borough Asphalt Co., 1301 Metropolitan Ave., 47th St. $1,634; from R. Lynster, 1364 Sterling Pl., grading, curbing and flagging Conklin Ave. $5,667, and Newport St. $2,390, from W. J. McHale, 1250 Jefferson St., 61st St. $3,908, from F. Persicano, 350 Fulton St., 66th St. $2,467, from C. Bennett Contg. Co., 414 Rutland Rd., 72nd St. $14,784, from Galco Contg. Co., 745 Dean St., 82nd St. $4,389. Noted Dec. 31.

Florida — State Rd. Dept., Tallahassee, Jan. 6, clearing, grubbing and grading, etc., 13.8 mi. road, 30 ft., Palm Beach Co., from C. F. Wilmore, 513 Meridian Ave., Middletown, O., $78,256. Noted Dec. 10.

La., Gretna—Police Jury Jefferson Parish, Dec. 28, grading and concrete or Alabama rock asphalt paving 3.66 mi. Metairie Ridge-Shrewsbury Highway (Dist. 1), from W. J. Horie, Jackson, Miss., at $2.25 per sq.yd. each. Noted Dec. 24.

Minn., Willmar — J. W. Haines, aud. Kandoyohi Co., Dec. 15, improving approximately 7.5 mi. Job 2604, Road 19, 125,511 cu.yd. excav., 76,015 cu.yd. overhaul, etc., from DeRuyter Bros., Renville, $32,581. Noted Dec. 3.

Colorado—State Hy. Dept., Denver, Dec. 29, graveling 3.877 mi. State Highway 10, Federal Aid Project 213-D, La Plata Co., from Wood & Morgan Burnett Co., Durango, $52,662; grading 5.772 mi. State Highway 8, Federal Aid Project 279-C, Jefferson and Park Counties, from W. A. Colt & Son, Las Animas $114,542; sand surfacing 6.856 mi. State Highway 8, Federal Aid Project 278-B, Lincoln Co., from D. S. Reid Constr. Co., Tramway Bldg., Denver, $17,223; 250 ft. steel bridge and approaches Federal Aid Project 282-A, Moffat Co., from Northwestern Constr. Co., Craig, $79,442. Noted Dec. 24.

Calif., Los Angeles — From Sully-Miller Co., 1500 West 7th St., Long Beach, improving K St., grading $4,200, 203,691 sq.ft. 6 in. concrete paving $0.185 per sq.ft., etc., total $49,300, also Hyatt Ave., grading $2,900, 111,700 sq.ft. 6 in. concrete paving $0.189, etc., total approximately $30,895.

Calif., Mill Valley—W. Falley, town clk., Dec. 30, grading, asphaltic concrete paving, etc., Cascade Dr., from Pacific States Constr. Co., Call Bldg., San Francisco, $64,395. Noted Dec. 24.

Calif., San Diego—From Griffith Co., 25 14th St., improving Harrison Ave., 24th and N Sts., 281 cu.yd. excav. $1 per cu.yd., 4,372 sq.ft. cement sidewalk $0.215, 240,543 sq.ft. Warrenite on 2½ in. bituminous paving $0.188, etc., total $52,676. Noted Dec. 24.

Calif., Santa Ana—From G. A. Simpson, 221 East San Fernando Blvd., Burbank, improving East 1st St. between Main and Mayburry Sts., 289,049 sq.ft. 8 in. concrete paving $0.235 per ft., etc., total $78,105.

CONTRACTS AWARDED

Massachusetts—Dept. Pub. Wks., Boston, rein.-con. and bituminous macadam paving 28,795 ft. Highway in Lenox and Stockbridge, to Lane Constr. Co., 37 Colony St., Meriden, Conn., $323,698. Engrs. est. $350,000. Noted Dec. 31.

New York — A. W. Brant, comr. Highways, Albany, (**e. e. means engineers estimate**), improving 12.83 mi. Highway 8241, Franklin Co. Line-Sevey Corners Highway, St. Lawrence Co., to D'Onbro Bros., Inc., Leominster, Mass., $637,812, e. e. $766,053; 10.5 mi. Sects. 1, 2, 3 and 4. Repair Contr. 1490-3142, Highway 1407, Albany Co. Highway and Highway 604,630 Schenectady Co. Highway, Troy and Schenectady Counties, to J. M. Murray, Rochester, $388,335, e. e. $526,693; 7.08 mi. Highway 1222, Millbrook-Dover Plains Rd., Dutchess Co., to N. W. Willite Paving Corp., Rochester, $394,045, e. e. $506,064; 7.85 mi. Highway 8242, Alpine-Cayuta Rd., Part 2, Schuyler Co., and Cayuta-Swartwood Rd., Parts 1 and 2, Chemung Co., to Frost & Lowman, Watkins, $275,403, e. e. $393,585; 5.15 mi. Highway 8238, Willsboro-Keesville, Part 2, Essex Co., to J. J. Fredella Co., Inc., Glens Falls, $268,614, e. e. $334,196; 4.65 mi. Highway 8243, South Salem-Highridge Rd., Part 1, Westchester Co., to P. Battifarano, Woodcliff-on-Hudson, $250,483, e. e. $331,590; 8.23 mi. Highway 8239, Cold Brook-Nobleboro Highway, Parts 1 and 2, Herkimer Co., to Stapell, Mumm & Beals Corp., Gardensville, $381,280, e. e. $457,305; 1.7 mi. Highway 1725, LeRoy-Brockport, Part 1, Genesee Co., to Greenfield & Harding, Hornell, $59,867, e. e. $76,775. Grand total $2,655,839. Noted Dec. 24.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., to L. DiMinna, 2366 Lorrilard Pl., grading, curbing and sidewalks on Underhill Ave. $7,806, Puritan Ave. $6,428, and Thieriott Ave. $2,041; to P. J. Donovan, 30 Church St., Hobart Ave. $18,101; to Gramaglia Bros., 48 East Kingsbridge Rd., East 214th St., $11,997; to Remo Realty Co., 530 East Tremont Ave., Harrington Ave., $16,004. Grand total $62,377. Noted Jan. 7.

Pennsylvania—State Hy. Dept., Harrisburg, concrete paving 6 mi. roads in Berks Co., to A. DiRenzo, 1019 Wood St., Bristol, $211,000.

Ga., Atlanta—To S. E. Finley, 212 West North Ave., asphalt paving 3,308 sq.yd. Hunt St. at $1.98 per sq.yd., and 6,148 sq.yd. Fatnall St. $1.94; to C. A. Pittman, 12 Elizabeth St., vibrolithic concrete paving 7,705 sq.yd. Chestnut St. $2.10, 5,799 sq.yd. Fort St. $2.12, 2,526 sq.yd. Smith St. $2.16, 2,266 sq.yd. Walnut St. $2.20, 2,515 sq.yd. Ashby Circle $2.20, 1,381 sq.yd. Palmetto St. $2.22, 2,758 sq.yd. Woyhourne St. $2.22, 2,632 sq.yd. Catherine St. $2.22, 1,224 sq.yd. Henry St. $2.23, and 851 sq.yd. Terry St. $2.45. Noted Dec. 17.

Fla., Miami—City Comm., to J. J. Quinn Co., O'Reilly Ave., Miramar, terra cotta sewers, etc., in Dists. 161, 164 and SA. L. 8, Contr. SR. 60 $22,750, Dists. 155 and SA. L. 6, Contr. SR. 58 $13,753, Dist. SA. L. 4, Contr. SR. 54 $7,494; also to J. L. Kelley Constr. Co., Miami, Dist. SA. L. 5, Contr. SR. 57 $1,131, Dists. 160 and SA. L. 7, Contr. SR. 59 $7,775, Dist. 163, Contr. SR. 63 $5,336, Dists. 157, 162 and SA. L. 9, Contr. SR. 61 $14,498, and Dists. 156 and 158, SR. 62 $9,198. Grand total $81,935.

Miss., Magnolia — Pike Co. gravel surfacing, etc. 42 mi. Northern Separate Road Dist., Group A, to P. L. Dobbs, McComb, $11,010; Group B, to S. Woodruff, McComb, $12,375; and Group C, to Stowell & Middleton, Brookhaven, $12,426. Grand total $35,811. Noted Dec. 3.

O., Canton—Brick paving Sherrick Rd. S. E., and asphalt paving Cherry Ave. S. E. extension, to General Asphalt Paving Co., 1268 Dueber Ave. S. W., $35,604 and $41,876 respectively. Engrs. ests. $35,000 and $35,000 to $40,000 respectively.

O., East Cleveland (Cleveland P. O.)—Paving 4 streets, to Cleveland Trinidad Paving Co., The Arcade. $50,250. Noted Dec. 24.

Ind., South Bend—St. Joseph Co., grading and concrete paving, etc., 113,000 sq.yd. New Carlisle Subway, to Highways Impvt. Co., 346 Assn. Bldg., $69,861; also grading and 12 in. graveling 2½ mi. Redwood Rd., 16 ft., to Phend & Brown, Milford, $29,000.

Illinois—State Dept Pub. Wks. & Buildings, Div. Highways, Springfield, Portland cement paving 5.08 mi. Route 1, Sect. 38, Johnson Co., to W. Lough & Sons, Marion, $96,239, 10.6 mi. Route 1, Sects. 39 and 40, incl. 3.94 mi. gravel surfacing, Massac Co., to Mitchell Constr Co., Marion, $114,022, 11.68 mi. Route 34, Sects. 1 and 2, incl. 1.15 mi. gravel surfacing, Saline Co., and 5.36 mi. Route 34, Sect 3, incl. 2.28 mi. gravel surfacing, Pope and Hardin Counties, to Madison Constr. Co., Edwardsville, $257,000 and $100,595 respectively, 11.18 mi. Route 34, Sects. 4 and 5, incl. 0.48 mi. gravel surfacing, Hardin Co., and 5.87 mi. Route 34, Sect. 6, incl. 0.67 mi. gravel surfacing, Pope and Hardin Counties, to Smith Bros., Inc., Decatur, $264,346 and $138,919 respectively, 4.46 mi. Route 34, Sect. 7, incl. 0.29 mi. gravel surfacing, Pope Co., to Hamilton-Hoffman Constr. Co., Carbondale, $96,987, 5.68 mi. Route 8, Sect. 48, incl. 0.25 mi. gravel surfacing, Fulton and Knox Counties, to L. B. Dyer Constr. Co., Hoopeston, $94,450; grading 0.04 mi. Route 3, Sect. 33-X, Warren Co., to Wilson & Co., Peoria, $3,832, and 2.12 mi. Route 30, Sect. 3-A, Peoria Co., to Knapp & Cruse, East Peoria, $29,638. Grand total $1,196,028. Noted Dec. 31.

Ill., Chicago — Bd. Local Impvts., City Hall, stone work on Sects. 4 to 12, South Water Street Impvt., Contr. 18, to Mid-Continent Constr. Co., 6 North Michigan Ave., $296,500. Noted Oct. 1.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, paving Route 5, Sects. 30-X and 31-X, JoDaviess Co., to J. F. Lee Paving Co., 208 Security Bldg., Dubuque, Ia., $54,593 and $80,734 respectively. Noted Nov. 5.

Kan., Ft. Scott—Grading, curbing, guttering, brick on 4 in. hydraulic cement with asphaltic filler paving 5,710 sq.yd., brick on macadam with asphaltic filler 388 sq.yd., and brick relaid with new concrete base with asphaltic filler 335 sq.yd. various streets, to Thogsmartin & Sons, Ft. Scott, $28,031.

S. D., Vermillion—City, c/o C. I. Vaughn, aud., concrete paving approximately 10 blocks various streets, to P. C. Hanson & Sons, 1422 Court St., Sioux City, Ia., at $1.77 per sq.yd. Noted Dec. 17.

Neb., Fairbury — Grading, curbing and brick on concrete paving streets in Districts 12 and 14, to Roberts Constr. Co., 404-5 1st Natl. Bank Bldg., Lincoln, $31,025 and $52,071 respectively.

Missouri—State Hy. Dept., Jefferson City, to Thomas & Johnson, Doniphan, 30 ft. grading 6.861 mi. Puxico-Bollinger Co. line Rd., Stoddard Co. $45,556, to Energy Coal & Supply Co., Poplar Bluff, 0.34 mi. Poplar Bluff-Dekins Ferry Rd., Butler Co. $2,942, to Summerfield Jones Co., Billings, 12.251 mi. Poplar Bluff-Dekins Ferry Rd.,

See proposal advertisements on page 131, Advertising Section.

Streets and Roads (Continued)

Butler Co. $86,406, to C. F. Johnson & Sons, Buffalo, 2.722 mi. road from Dove north, Laclede Co. $29,606, to Burnham & Sons, St. Louis, 7.794 mi. Waynesville-Bloodland Rd., Pulaski Co. $25,918, to E. H. Euler, Maysville, 4.645 mi. Ava-Mansfield Rd., Douglas Co. $52,323, and 3.535 mi. same road in Wright Co. $46,478, to C. P. O'Reilly & Co., Wainwright Bldg., St. Louis, 10.104 mi. Potasi-Caledonia Rd., Washington Co. $82,662, and 4.5 mi. road from Caledonia north and south, Washington Co. $22,146, also 18 ft. gravel surfacing 6.14 mi. Wayland-Lewis Co. Line Rd., Clark Co. $74,031; to M. E. Gillioz, Monett, 30 ft. grading 0.321 mi. Licking-Salem Rd., Dent Co. $6,071, 1.72 mi. road from Lebanon east and west, Laclede Co. $10,146, and 18 ft. gravel surfacing 2.291 mi. road from Cole Camp east and west, Benton Co. $20,079; to J. L. Simmons, La Plata, 18 ft. gravel surfacing 2.379 mi. Glenwood-Lancaster Rd., Schuyler Co. $13,557, to Humphrey & Stebbins, Fredericktown, 2.134 mi. road from Iron Co. line south $10,782, and 0.211 mi. Annapolis-Des Arc Rd. $12,602, both in Iron Co., to Carter Harlin Constr. Co., West Plains, 4.606 mi. Houston-Raymondsville Rd., Texas Co. $41,972, to J. H. Kerr, Ozark, 5.161 mi. Mountain Grove-Cabool Rd., Texas Co. $10,565, to Pittsburgh-Des Moines Steel Co., 9th and Tuttle Sts., Des Moines, Ia., 0.709 mi. Troy-Moscow Mills Rd., Lincoln Co. $9,194, to J. Pestotnik, Boone, Ia., 2.814 mi. road from Salisbury east, $3,999, and 2.608 mi. Randolph Co. line-Salisbury Rd. $4,972, both in Chariton Co.; to Rouse Constr. Co., Cape Girardeau, grading and 18 ft. concrete paving 2.491 mi. road from Sikeston west, Scott Co. $40,268, 3.717 mi. road from Morehouse east and west, New Madrid Co. $64,206, 2.923 mi. road from Dudley west, $57,641, and 4.129 mi. Gray Ridge-Morehouse Rd. $76,200, both in Stoddard Co., and to Harrison Eng. & Constr. Co., Kansas City, 13.957 mi. St. Clair-Gray Summit Rd. $263,476, also 7.156 mi. road from St. Clair west $136,456, all in Franklin Co. Grand total $1,240,264. Noted Dec. 24.

Tex., Abilene—Warrenite bitulithic paving Sayles Blvd. from McLemore St. to Kirkland St., to West Texas Constr. Co., 504 Cotton Exch. Bldg., Fort Worth, $33,696. Engrs. est. $35,000.

Tex., Athens — For 3 in. brick on 4 in. gravel surfacing approximately 6 blocks various streets, to K. G. Anderson Co., Athens, $28,947.

Idaho—State Hy. Dept., Boise, bituminous concrete paving 6.016 mi. and constructing 2 bridges on Federal Aid Project 73-B, also bituminous surfacing and 2 bridges on Federal Aid Project 64-C, Shoshone Co., to J. C. McGuire, Idaho Falls, $120,130.

California — Kern Co. (Bakersfield), improving F St. in town of Wasco, and Central Ave. in Shafter, to Stewart & Bland, Fresno, Calif. Noted Dec. 31.

Calif., Los Angeles—Curbing, grading, 6 in. concrete paving, etc. 88,875 sq.yd. Doheny St. et al., to L. E. Davis, 861 West 57th St., $28,382, and 238,462 sq.ft. Hub St. between Avenues 51 and 53, to W. Warne, Transportation Bldg., $94,477; improving 17th St. between Gaffey and Leland Sts., to Griffith Co., Railway Bldg., $39,395; curbing, walks, concrete and asphaltic concrete paving, etc. 138,730 sq.yd. 94th St. between Figueroa St. and Vermont Ave., to J. Mullarkey, 8435 South Vermont Ave. $62,655. Grand total $224,909. Noted Dec. 31.

Calif., Los Angeles — Los Angeles Co., curbing, walks, guttering, etc. Betty, Hubard Sts., etc. (Impvt. 207), to Pierson & Morris, Bradbury Bldg., $70,002. Noted Dec. 17.

Calif., Santa Cruz—Curbing, grading and concrete paving, etc. portion of Santa Cruz-Boulder Creek Highway, to C. W. Wood, Manteca, approximately $39,650. Noted Jan. 7.

Ont., North Bay—Grading, curbing, guttering and bitulithic on concrete paving 35,000 sq.yd. McIntyre and Bell Sts., to Warren Bituminous Paving Co. of Ontario, 54 University Ave., Toronto, $143,782. Engrs. est. $150,000.

Buildings—Industrial

PROPOSED WORK

Conn., Meriden—INDUSTRIAL—Meriden Lumber Co., having plans prepared by W. T. Arnold, 34½ Main St., 2 story, 22 x 74 ft., terra cotta, concrete, brick and steel, State St. $40,000.

N. Y., Brooklyn—POWER HOUSE—Gold Seal Laundry, 962 Franklin Ave., having plans prepared by Shampan & Shampan, engrs. and archts., 188 Montague St., rein.-con., brick, steel and stone, plain foundation, Atlantic Ave. $165,000.

N. Y., Olean — CAR SHOP — Pennsylvania R.R. Co., Broad St. Station, Phila., Pa., having plans prepared by W. H. Cookman, Broad St. Station, Phila., Pa., 1 story, 110 x 175 ft., brick and steel addition, here. $215,000. R. M. Trimble, Pennsylvania Station, Pittsburgh, Pa., asst. engr.

N. J., Paulsboro — COMPOUNDING — Vacuum Oil Co. plans 3 story, 52 x 80 ft., rein.-con., brick and steel, plain foundation, here. Private plans.

Pa., Mill Hall — BRICK FACTORY — Harbison-Walker Brick Co., Mount Union, plans 3 story, 40 x 70 ft., brick and steel factory, incl. power plant, pattern making shop, etc., here. $150,000.

Pa., Pittsburgh — MANUFACTURING — Lustro Coated Sheet Co., 1312 Sheffield St., having plans prepared 1 story, 100 x 200 ft., brick and steel, Ridge Ave. $50,000. Private plans.

Md., Baltimore — PLANT — Edward Katzinger Co., 1959 North Cicero Ave., Chicago, Ill., plans 1 and 2 story, concrete and brick, plain foundation, Fleet, 8th and 9th Sts., here. $1,000,000. Engineer and architect not selected.

Md., Baltimore — FOUNDRY — Flynn & Emrich Co., 305 North Holliday St., will not construct 1 story, 100 x 260 ft., brick and steel, plain foundation, Garrett Ave. and Taylor St. $50,000. Project postponed. Noted Dec. 3.

Md., Sparrows Point (br. Baltimore) — PIPE MILL—Bethlehem Steel Co., Bethlehem, Pa., plans 1 and 2 story, brick and steel, wood pile foundation, here. $10,000,000. Private plans.

Ill., Chicago — FACTORY — Stromberg Motor Devices Co., 66 East 25th St., purchased 21 acre site and having preliminary plans prepared by N. M. Dunning, 310 South Wabash Ave., 1 and 2 story, rein.-con. and brick, South 54th Ave. and West 16th St. $1,500,000.

Ill., Freeport—FACTORY—Burgess Battery Co., Brearly St., Madison, Wis., purchased old factory and plans remodeling and equipping same to manufacture batteries, here. $40,000.

Neb., South Sioux City — ROUND HOUSE — Chicago, Burlington & Quincy R.R. Co., 547 West Jackson Blvd., Chicago, Ill., having plans prepared addition to round house and repair shop, here. A. W. Newton, ch. engr.

Tex., Center Point—TEXTILE MILL—S. E. Bomar (promoter Stock Co.), Kerrville, making preliminary plans, etc., textile mill, near Guadalupe River, here. $1,000,000. T. F. Bomar, 1407 Maltman St., Los Angeles, Calif., engr.

Ont., Fort William — SUBSTATIONS — Voted $250,000 bonds electric substations, incl. transformers, insulators, switchboards, etc., Hydro-Electric Comn. of Ontario, 190 University Ave., Toronto, may prepare plans. C. B. Symmes, city engr.

BIDS DESIRED

Pa., Phila. — MANUFACTURING — Jan. 19, by Ballinger Co., and J. P. Richter, archts., 12th and Chestnut Sts., 1 story, 124 x 783 ft., rein.-con., brick and steel, plain foundation, Aramingo Ave., Tulip and Sanger Sts., for J. W. Watson Co., 24th and Locust Sts. $300,000. Noted Jan. 7.

Pa., Turtle Creek — WAREHOUSE and MILL—See "Contracts Awarded."

Ga., Albany — ROUNDHOUSE, etc. — Jan. 25, by C. E. Weaver, engr. maintenance and ways, Central of Georgia R.R. Co., Savannah, 1 story, rein.-con., brick and steel round house and store house, here. C. K. Lawrence, Savannah, ch. engr.

Ill., Chicago — FACTORY — Mar. 1, by S. C. Joy, 2001 Pershing Rd., 5 story, 60 x 150 ft., rein.-con. and brick addition, Custer St. near Dominick St., for Zangerle & Peterson Co., 2164 Claybourn Ave. $145,000.

Ill., Fulton—WAREHOUSE—Jan. 18, by Patent Novelty Co., 2 story and basement, 90 x 140 ft., brick warehouse. J. C. Wood, 410 Hones Bldg., Clinton, archt.

Wis., Pittsville—CANNERY—See "Contracts Awarded."

Neb., Lincoln — POWER PLANT — See "Contracts Awarded."

Okla., Ponca City — MILL, WAREHOUSE, OFFICE and POWER PLANT—Ponca City Milling Co. taking bids 6 story, 63 x 73 ft. flour mill, 5 story, 24 x 36 ft. feed mill, 1 and 2 story warehouse, office and power plant, all rein.-con. and brick. Homer & Wyatt, 646 Bd. of Trade Bldg., Kansas City, Mo., engrs.

CONTRACTS AWARDED

Mass., Uxbridge — MILL — Uxbridge Worsted Co., 3 story, 80 x 145 ft., brick and steel addition, to E. D. Ward Co., 82 Foster Ave., Worcester. Archts. est. $80,000.

Conn., Bristol—STORAGE SHED—New Departure Mfg. Co., 1 story, 75 x 150 ft., steel, to G. J. Lacourse, George St.

Conn., Bristol—SHOP—New Departure Mfg. Co., 70 x 240 ft., brick and steel addition, Terryville Ave., to G. J. Lacourse, George St. Archts. est. to exceed $40,000. Noted Dec. 24.

Conn., Derby — SHOP — Derby Gas & Electric Co., 22 Elizabeth St., 3 story and basement, 41 x 85 ft., Housatonic Ave.; to C. Smith & Son Co., 76 Minerva St. Archts. est. $50,000. Noted Mar. 19.

N. Y., Brooklyn—GARAGE—Rubel Coal & Ice Corp., 197 Glenmore Ave., rein.-con., brick and steel, plain foundation, New York Ave., to I. Polivnick, 395 Crown St. Archts. est. $75,000.

N. J., Camden—STORAGE—Penn-Jersey Steel Co., 652 South 2nd St., 1 story, 20 x 70 ft., brick and steel, plain foundation, 1450 Ferry Ave., to J. D. Hill, Collingwood.

N. J., Jersey City — BRASS PLANT — Brady Brass Co., 14th and Henderson Sts., 2 story, rein.-con., brick and steel, plain foundation, 14th St., to J. Jewkes & Son, 676 Montgomery St. Archts. est. $55,000.

N. J., Trenton—POTTERY—Trenton Potteries Co., North Clinton and Ott Sts., 4 story, 50 x 94 ft., brick and steel, Labor St., to J. H. Morris Co., 211 Montgomery St., $54,000.

Pa., Oaks — RUBBER PLANT — Osborn Eng. Co., engrs., East 71st-Euclid Bldg., Cleveland, O., 70 x 100 ft. deheading and chopping house, 80 x 80 ft. washer and grinder house, 90 x 160 ft. washer and devulcanizing building, 60 x 60 ft. tank house, 50 x 80 ft. drier building, 80 x 100 ft. dry-stock storage, 50 x 220 ft. mill, 122 x 261 ft. warehouse and office building, 50 x 90 ft. boiler house, 60 x 220 ft. mechanical building and 400 ft. crane runway, etc., here, to W. Steele & Son Co., 219 North Broad St., Phila., for Phila. Rubber Works Co., Land Title Bldg., Phila. Engrs. est. $400,000. Noted Dec. 17.

Pa., Pittsburgh—BAKERY—C. B. Comstock, archt., 110 West 40th St., New York City, 3 story and basement, 100 x 200 ft., brick and steel addition, Liberty Ave., here, to W. F. Trimble & Sons Co., 1719 Penn Ave., for Ward Baking Co., East 143rd St., New York City, N. Y. Archts. est. $300,000.

Pa., Turtle Creek—WAREHOUSE and MILL—Rutter Bros. Lumber Co., Airbrake Ave., will rebuild 2 story, 70 x 100 ft., brick and steel warehouse and mill, recently destroyed by fire. $40,000. Work will be done by separate contracts. Private plans.

O., Chillicothe — FACTORY — Fairfield Paper Co., Baltimore, T. D. Griley, pres., concrete, brick and steel factory, here, to H. K. Ferguson Contg. Co., Chillicothe, about $200,000.

O., Dayton—FACTORY—Schenk & Williams, archts., Mutual Home Bldg., 2 story, 60 x 200 ft., rein.-con., plain foundation, Monument Ave., to Danis-Hunt Constr. Co., 1st and Webb Sts., for Duro Pump & Mfg. Co., 537 East Monument Ave., $175,000. Noted Nov. 26.

Ind., Evansville—PACKING PLANT—Stahl Packing Co., South 10th St., general contract 1 story, 45 x 146 ft., brick, steel and rein.-con., Dixie Bee Line, to C. Kanzler & Son, 500 Furn Bldg. Archts. est. $45,000. Noted Jan. 7.

Ind., Indianapolis—PLANT—Citizens Gas Co., Majestic Bldg., 1 story, 60 x 150 ft., sulphate ammonia plant, brick, steel and rein.-con., 735 Langsdale Ave., general contract, to Wilputte, Coke & Oven Corp., 469 5th Ave., New York City, N. Y. Archts. est. $60,000.

Mich., River Rouge (br. Detroit) — MOTORS BUILDING — Ford Motor Co., Woodward Ave., Highland Park, 1 story, 400 x 663 ft., rein.-con., brick and steel extension, plain foundation, here, to J. N. Blair Constr. Co., Rand Bldg., Memphis, Tenn. Archts. est. $1,500,000.

Wis., Pittsville—CANNERY—Pittsville Canning Co., c/o H. Schneider, mgr., will build 2 story, 32 x 70 ft. cannery, 28 x 30 ft. power house, and 1 story, 32 x 110 ft. warehouse, all brick and timber, plain foundation, here, by day labor. $40,000.

Neb., Lincoln—POWER PLANT—State Bd. Control, Capitol Bldg., will repair power plant and build rein.-con. boiler house, etc., by day labor. $100,000. Consulting Board Engineers, c/o owner, engrs.

Mo., St. Louis—PACKING PLANT—St. Louis Independent Packing Co., 3825-33 Chouteau Ave., 5 story, rein.-con. and brick top addition, to McKelvey Constr. Co., Title Guaranty Bldg. Archts. est. $250,000.

Calif., Vernon — FACTORY — Technical Glass Co., 2 story, 100 x 115 ft., rein.-con., and 1 story, 65 x 114 ft., steel and corrugated iron factory buildings, to C. B.

See proposal advertisements on page 131, Advertising Section.

Buildings—Industrial (Continued)

Harp, 663 Chamber of Commerce Bldg., Los Angeles.

Man., **Fort Alexander** — PULP and PAPER MILL—Manitoba Pulp & Paper Co., mill and buildings, to Carter, Hall Aldinger Co., Ltd., Winnipeg, $1,500,000.

Buildings—Commercial

PROPOSED WORK

R. I., Pawtucket — HOME — B. P. O. E. takes bids about Jan. 21, 3 story, 82 x 150 ft., brick, steel and stone, Exchange and Montgomery Sts. $150,000. O'Malley & Fitzsimmons, 84 Broad St., archts. Noted Dec. 24.

R. I., Providence — BANK — Industrial Trust Co., Westminster St., having plans prepared by Walker & Gillette, 128 East 37th St., New York City, brick and steel, Westminster St. $150,000.

Conn., Greenwich—APARTMENT—A. J. Steen, 52 Vanderbilt Ave., New York City, plans brick, steel and stone, plain foundation, Lafayette Pl., here. $500 000. Engineer and architect not selected.

Conn., Hartford—HOTEL—Hotel Bond, H. S. Bond, vice-pres., 320 Asylum St., having plans prepared by Pennington & Lewis, 25 Park Ave., New York City, brick and steel addition. $1,500,000.

Conn., Norwich—BANK—Dime Savings Bank of Norwich, 40 Main St., R. S. Bartlett, pres., plans new bank, Bway. $150,000 or more.

N. Y., Brooklyn—APARTMENT—Shampan & Shampan, engrs. and archts., 188 Montague St., preparing plans brick, steel and stone, plain foundation, Montgomery St. $1,200,000. Owner's name withheld.

N. Y., New York — APARTMENT — Deutsch & Schneider, engrs. and archts., 35 Maiden Lane, preparing plans 15 story, brick, steel and stone, plain foundation, Waverly Pl. $750,000. Owner's name withheld.

N. Y., New York—APARTMENT—Central Park & 61st St. Corp., H. R. Rubin, c/o E. Roth, engr. and archt., having plans prepared 20 story, brick, steel and stone, plain foundation, Central Park West and 61st St. $3,000,000.

N. Y., New York—APARTMENT—B. M. House Sons, 8 West 40th St., plans 6 story, 100 x 100 ft., brick, steel and stone, plain foundation, 2nd Ave. and 38th St. Engineer and architect not selected.

N. Y., New York — APARTMENT — Ninety-Eighth Street & West End Ave. Corp., c/o G. and E. Blum, engrs. and archts., 505 5th Ave., having plans prepared 20 story, brick, steel and stone, plain foundation, 98th St. and West End Ave.

N. Y., New York—APARTMENT HOTEL —Jador Realty Co., Inc., c/o G. F. Pelham, engr. and archt., 200 West 22nd St., having plans prepared 13 story, brick, steel and stone, plain foundation, 242 West 76th St. $750,000.

N. Y., New York — CLUBHOUSE — Knights of Pythias, 280 Madison Ave., plan 10 story, 112 x 200 ft., brick, steel and stone, plain foundation, 135-45 West 70th St. $1,000,00. Engineer and architect not selected.

N. Y., New York—HOTEL—S. Paterno, c/o R. Cadela, engr. and archt., 200 West 72nd St., having plans prepared 15 story, brick, steel and stone, plain foundation, 1021 6th Ave. $900,000.

N. Y., New York—LOFT—Thirty-First Street Holding Corp., c/o H. I. Oser, engr. and archt., 1440 Bway., having plans prepared 16 story, 100 x 100 ft., brick, steel and stone, plain foundation, 150 West 31st St. $700,000.

N. Y., New York—OFFICE—F. Dee & L. Realty Co., I. Lasner, pres., 146 West 34th St., plans 24 story, brick, steel and stone, plain foundation, Madison Ave. and 32nd St. Engineer and architect not selected.

N. Y., Riverhead—HOTEL—New Griffin Hotel, c/o C. Sheres, archt. and engr., 70 East 45th St., New York City, having plans prepared 4 story, brick, steel and stone, plain foundation, here. $500,000.

N. J., Trenton Junction—TERMINAL—Reading Ry., Reading Terminal, Phila., Pa., plans railroad terminal with station and yards, here. S. T. Wagner, Reading Terminal, Phila., Pa., ch. engr.

Pa., Chester — BANK and OFFICE — Pennsylvania Natl. Bank, 408 Market St., soon lets contract 3 story and basement, 40 x 120 ft., rein.-con., brick and steel, plain foundation, 3rd and Howell Sts. $150,000. E. A. Wilson, 1208 Chestnut St., Phila., archt.

Pa., Phila.—THEATRE—Stanley Co. of America, 1916 Race St., having plans prepared by Hoffman-Henon Co., Finance Bldg., 1 story and basement theatre, Broad and Girard Sts. To exceed $150,000.

Pa., Phila.—STORE—H. Holmes, archt., 1630 Penobscot Bldg., Detroit, Mich., soon lets contract 2 story and basement, 42 x 42 ft., and 84 x 112 ft., brick, rein.-con. and steel, plain foundation, 104-06 South 52nd St., here, for S. S. Kresge Co., Kresge Bldg., Detroit, Mich. $200,000.

Pa., Fox Chase (Sta. Phila.) — HOSPITAL—By Heacock & Hokenson, archts., 1211 Chestnut St., Phila., soon lets contract 42 x 185 ft., 40 x 43 ft. and 53 x 58 ft. hospital, 53 x 100 ft. administration building, and 38 x 157 ft. nurses home, each 2½ story and basement, rein.-con., brick and steel, plain foundation, Filmore, Shelmire, Hartel and Hasbrook Sts., here, for Jeanes Memorial Hospital, c/o architects. Noted Dec. 31.

S. C., Greenville—HOTEL—Laurel Park Estates Co., Inc., H. W. Fuller, pres., having plans prepared by Beacham & Legrand, Greenville, hotel, Caesar's Head Mt. $1,000,000.

Miss., Jackson—COURT HOUSE—Hinds Co. defeated $175,000 bonds, court house.

La., Lafayette—COURT HOUSE—Lafayette Parish voted $300,000 bonds, courthouse. Noted Nov. 26.

La., New Orleans—COURTHOUSE—City, M. Behrman, mayor, had tentative plans prepared by E. A. Christy, City Hall Annex, 3 story, rein.-con., marble or granite. $1,500,000.

O., Cincinnati—COMMUNITY CENTER —Wise Center, Reading Rd., having plans prepared by Fechheimer, Ihorts & McCoy, 1010 Schmidt Bldg., 3 story and basement, rein.-con. and brick, plain foundation, Reading Rd. $400,000.

O., Cleveland—COMMERCIAL—Muirson Realty Co., c/o J. Laronge, 600 Union Trust Bldg., plans 2 story (ultimately 8 story), brick, East 12th and Payne Sts. $150,000. Engineer and architect not selected.

O., Cleveland Heights (Warrensville P. O.)—APARTMENT—H. L. Caplan, 3469 East 123rd St., Cleveland, having preliminary plans prepared by A. F. Janowitz, 811 Prospect Ave., Cleveland, 3 story and basement, brick, Hampshire Rd., here. $150,000.

O., Columbus — THEATRE — James Theatre Enterprises, 39 West Broad St., having revised plans prepared by C. H. Crane, 542 Griswold St., Detroit, Mich., 2 story and basement, 113 x 150 ft., 1,500 seating capacity, brick, steel and terra cotta, East Main St. $350,000. Noted July 16.

O., East Cleveland (Cleveland P. O.) — STORE, OFFICE and THEATRE — Phoenix Investment Co., C. Hockbaum, pres., Swetland Bldg., Cleveland, having preliminary plans prepared by N. Pettl, Williamson Bldg., Cleveland, 8 story, concrete, brick and steel, Euclid and Superior Aves., here. $700,000.

Ind., Evansville—LODGE—W. F. Kinchel, secy. I. O. O. F. Lodge, 1623 Walnut St., soon takes bids 6 story and basement, 85 x 150 ft., brick, steel and rein.-con., Old Cadick Theatre site. $250,000. Private plans.

Ind., Hammond—HOTEL—Hotel Ambassador Corp., North State St., Chicago, Ill., having plans prepared by B. H. Jillson, archt. and engr., 6 North Michigan Bldg., Chicago, Ill., 7 story and basement, brick, steel and rein.-con., State and Soule Sts., here. $1,000,000.

Mich., Detroit—BANK and OFFICE—J. B. Book, Jr., Book Bldg., Washington Blvd., plans 22 story nad basement, 60 x 100 ft., brick, steel and stone, caisson foundation, Washington Blvd. and Grand River Ave. $2,000,000. Engineer and architect's names withheld.

Ill., Chicago—BANK and APARTMENT —M. S. Plotke, 111 West Washington St., having sketches made by Huzzagh & Hill, 6 North Michigan Ave., 20 story, 109 x 150 brick and Indiana limestone, Rush and Ontario Sts. $2,750,000.

Ill., Chicago—BANK and OFFICE—A. Epstein, archt., 2001 West Pershing Rd., made plans and takes bids about Feb. 15, 6 story and basement, 125 x 125 ft., rein.-con., brick, steel and stone, plain foundation, 63rd and Green Sts., for Chicago City Bank & Trust Co., 63rd Pl. and Halsted St. $1,000,000.

Ill., Chicago — HOSPITAL — St. Ann's Hospital, 4900 Thomas St., having plans prepared by H. J. Gaul, 228 East Superior St., 4 story and basement, Lavergne and Lamon Aves., West Division and Thomas Sts. $900,000. Noted Apr. 30.

Ill., Chicago—HOTEL—A. G. Halas, 4732 North Racine Ave., will not construct 12 story and basement, 96 x 150 ft., rein.-con., brick and stone, Leland and Racine Aves. $1,000,000. Project abandoned. Noted Oct. 15.

Ill., Chicago — OFFICE and STORE — A. S. Alschuler, archt., 28 East Jackson Blvd., soon takes bids 22 or 23 story, 95½ x 130 ft., Lake St. and North Michigan Ave., for Michigan-Lake Building Corp., c/o F. T. Hoyt, pres., 160 North La Salle St.

Ill., Peoria — APARTMENT — Gubbins, McDonnell & Bleitz, 6505 Sheridan Rd., Chicago, soon takes bids 3 story and basement, concrete, brick and stone, Crescent and Hamilton Sts., here. $160,000. Hooper & Janusch, Inc., 879 North State St., Chicago, archts.

Ill., Quincy—HOTEL and THEATRE—Mid-Continent Hotel Corp., c/o Reyburn Eng. Co., 609 Waldheim Bldg., Kansas City, Mo., having plans prepared 11 story and basement, rein.-con. and brick hotel and theatre, here. $550,000.

Ia., Bettendorf — SANITARIUM—Grand Lodge of Iowa A. F. & A. M., F. Moses, secy., Cedar Rapids, takes bids about Feb. 1, 2 story and basement, 38 x 116 ft., and 38 x 150 ft., rein.-con., brick and stone sanitarium, here. $150,000. E. Holbrook, 51 Whitaker St., Davenport and Beuttler & Arnold, Grain Exch. Bldg., Sioux City, archts.

Minn., Minneapolis — HOSPITAL, etc. — Eitel Hospital, c/o G. C. Eitel, proprietor, 14th and Willow Sts., having plans prepared by P. E. Crosier, 915 New York Life Bldg., two 6 story and basement additions to clinic, $300,000; 5 story and basement, 52 x 192 ft. addition to hospital with 30 x 70 ft. power plant, $400,000; and 6 story and basement, 42 x 120 ft. nurses dormitory, $150,000, all rein.-con., and brick, 15th and Willow Sts.

S. D., Aberdeen — THEATRE — Finkelstein & Ruben, 425 Loeb Arcade, Minneapolis, Minn., had plans prepared by Buechner, 425 Shubert Bldg., St. Paul, Minn., 2 story and basement, rein.-con. and brick, here. $150,000.

S. D., Huron—THEATRE—Finkelstein & Ruben, 425 Loeb Arcade, Minneapolis, Minn., had plans prepared by Buechner & Orth, 500 Shubert Bldg., St. Paul, Minn., 2 story and basement, rein.-con., brick and stone, here. $225,000.

Missouri — EXCHANGES, etc. — Southwestern Bell Telephone Co., Boatmens Bank Bldg., St. Louis, plans to expend approximately $14,000,000 improving and extending toll lines, etc. in Missouri and Western Illinois during 1926, incl. 6 new central offices and improving present exchanges, etc. $10,200,000, also poles, wires, cables and rebuilding toll lines, etc. $2,400,000, and underground construction in St. Louis and other large cities $1,360,000.

Mo., Farmington—COURT HOUSE—St. Francois Co. takes bids about Feb. 15, 3 story and basement, 96 x 96 ft. court house. $250,000. Howard & Finley, International Life Bldg., St. Louis, archts. Noted Dec. 17.

Mo., Jefferson City—HOSPITAL—Central Missouri Hospital Assn., having preliminary plans prepared by Capital Architectural Serv., 207 Trust Bldg., 3 story, 80 x 145 ft. main building, 40 x 80 ft. nurses home, and 40 x 80 ft. colored ward, etc., brick and concrete.

Mo., Kansas City—BUSINESS and OFFICE—E. J. Willet, c/o R. Gornell, archt., 3619 Bway., having preliminary plans prepared business and office building. To exceed $150,000.

Mo., St. Louis — APARTMENT — T. G. Watts et al., 621 Chestnut St., making preliminary plans 20 story and basement, 62 x 210 ft., rein.-con., brick, stone and steel, Lindell Blvd. $1,000,000.

Mo., St. Louis — THEATRE, OFFICE APARTMENT — W. Fox Picture Corp., c/o A. Frumberg, Bank of Commerce Bldg., making preliminary plans brick, stone, steel, terra cotta and rein.-con., Grand and Washington Blvds. $4,000,000.

Ark., Eldorado—CITY HALL—Union Co. voted $150,000 bonds, new city hall. Noted Dec. 25, 1924.

Tex., San Antonio—HOTEL—Smith Bros. Development Co., Crockett, takes bids after Jan. 15, 19 story and basement, 135 x 145 ft., rein.-con., brick and tile, plain foundation, Villita and St. Marys Sts., here. $600,000. Noted Dec. 10.

Tex., Wichita Falls — HOTEL — C. F. Williamson, C. A. Morgan, et al., having plans prepared by Voelcker & Dixon, archts. and engrs., Morgan Bldg., altering present 6 story and basement office building into hotel and constructing 2 story, rein.-con., brick and stone top addition. $200,000.

Okla., Atoka—COURT HOUSE—Atoka Co. making preliminary plans rebuilding 3 story, concrete, brick and stone court house, recently destroyed by fire. To exceed $150,000.

See proposal advertisements on page 131, Advertising Section.

Buildings—Commercial (Continued)

Okla., Oklahoma City — HOTEL — Reinhart & Donovan, Tradesmens Bldg., having preliminary plans prepared by Layton-Hicks-Forsythe, Braniff Bldg., 7 story and basement, 50 x 140 ft., rein.-con. and brick, plain foundation, 110 West 1st St. $250,000.

Ore., Portland — WAREHOUSE and STORAGE — North Western Electric Co. having plans prepared by M. Schacht, 1126 Thurman St., 2 story, 100 x 200 ft., rein.-con., River and Loring Sts. $150,000.

Wash., Seattle — LODGE — B. P. O. E. Lodge 92, c/o G. S. Costello, exalted ruler, plans 4 story lodge, etc. $200,000.

Calif., Beverly Hills—APARTMENT and STORE—W. G. McCarty, c/o Walker & Eisen, archts., Great Republic Bldg., Los Angeles, having preliminary plans prepared 7 story, 130 x 160 ft., probably rein.-con., Wilshire Blvd. $350,000 or more.

Calif., Los Angeles—APARTMENT—J. C. Rives, c/o F. R. Dorn, archt., Rives-Strong Bldg., having plans prepared 7 story and basement, 90 x 100 ft., rein.-con., Pico St.

Calif., Los Angeles—THEATRE—H. E. Jones (representing owners), had plans prepared by Gogerty & Weyl, 820 Hollywood Blvd., and soon takes bids 2 story, rein.-con., 1,150 seating capacity, Vine St. near Hollywood Blvd. $300,000.

Calif., Murphys—HOSPITAL—Calaveras Co. (San Andreas) and San Joaquin Co. (Stockton) having plans prepared by R. P. Morrell, Union Bldg., Stockton, tubercular hospital, rein.-con. and tile, here. $350,000.

Calif., San Francisco—APARTMENT—O. Haupt, archt., 140 Montgomery St., preparing preliminary plans 5 story and basement, steel and rein.-con., Russian Hill. $150,000. Owner's name withheld.

Calif., Santa Monica — CLUB — Commercial Club of Southern California, having plans prepared by Curlett & Beelman, 408 Union Bank Bldg., Los Angeles, rein.-con., Palisades St. at foot Montana Ave. $1,000,000.

Calif., Santa Monica—CLUB—Southern California Commercial Club, c/o Curlett & Beelman, archts., Union Bank Bldg., Los Angeles, having plans prepared probably rein.-con., Montana Ave. $750,000 or more.

Calif., Santa Monica—HOSPITAL—F. H. Webster, archt., 922 Hollywood Guaranty Bldg., Los Angeles, preparing plans 3 story, 100 x 125 ft., rein.-con., here. $300,000. Owner's name withheld.

Calif., Santa Monica—STORE and OFFICE—Mutual Shares Properties, 221 Santa Monica Blvd., had preliminary plans prepared by R. E. Peterson, 920 Santa Monica Blvd., 11 story and basement, 50 x 150 ft., rein.-con., Santa Monica Blvd. $700,000.

Ont., Toronto — OFFICE — North Amer. Life Assurance Co., 112 King St. W., having plans prepared by Sproatt & Rolph, 1162 Bay St., probably 6 story and basement, concrete, stone, tile, brick and steel, plain foundation, Yonge St. $1,000,000. Noted Aug. 27.

BIDS DESIRED

Conn., New Britain — THEATRE — B. Hoffman, 113 Church St., taking bids steel for 150 x 200 ft., concrete, brick and steel, 2,500 seating capacity, Main St. Total to exceed $450,000. E. C. Horn & Sons, 1476 Bway., New York City, archt.

Conn., Waterbury — OFFICE — G. L. Lilley Co., L. H. Howe, supt., taking bids 6 story, 81 x 135 ft., brick and steel, Leavenworth St. $275,000. F. A. Webster, 51 West Main St., archt.

N. Y., Buffalo—HOSPITAL—Jan. 26, by Chairman Bd. Trustees State Institute for Study of Malignant Diseases, for hospital. A. H. Hopkins, 451 Main St., archt.; adv. E. N.-R. Jan. 14.

N. C., Greensboro—RAILROAD STATION—Jan. 28, by A. Fellheimer & S. Wagner, archts., 155 East 42nd St., New York City, 1 story, 60 x 200 ft., rein.-con., brick and steel passenger station, sheds etc., plain foundations, here, for Southern Ry. Co., 1300 Penn. Ave., Wash., D. C. $1,000,000. B. Herman, ch. engr. Noted Oct. 1.

Fla., Ft. Lauderdale—HOTEL—Riveiri Hotel Co., Ft. Lauderdale, taking bids 200 room hotel. $500,000. C. S. Dyer, of Dyer & Nahenry, 38 South Dearborn St., Chicago, Ill., archt.

Pa., Phila. — SALES and SERVICE — Jan. 19, P. S. Tyre, archt., 114 South 15th St., 3 story, mezzanine, and basement, 86 x 100 ft., rein.-con. and brick, plain foundation, Broad and Washington Sts., for Duff Nash Moley Co., 1115 South Broad St. Noted Dec. 31.

O., Cleveland—EXCHANGE—Jan. 16, by Ohio Bell Telephone Co., 4300 Euclid Ave., 2 story and basement, 83 x 103 ft., brick and rein.-con., 18900 Notthingham Rd. $150,000. G. R. Kositsky, engr, and F. R. Ward, archt., both 4300 Euclid Ave. Noted Oct. 1.

Ind., Michigan City—BANK and OFFICE—Jan. 20, by A. A. Boyd, pres. Merchants Natl. Bank, 2 story and basement, 26 x 141 ft., brick, steel and rein.-con., 6th and Franklin Sts. $160,000. K. M. Vitzthum & Son, 605 North Michigan Ave., Chicago, Ill., archts.

Mich., Detroit — OFFICE and WAREHOUSE — Jan. 15, by Coe Terminal Warehouse Co., 429 Wayne St., and S. S. Joy, archt., 2001 West Pershing Rd., Chicago, Ill., general contract 6 story and basement, 125 x 405 ft., rein.-con. and brick, 10th and Fort Sts. $1,000,000. Noted Oct. 15.

Ill., Chicago — APARTMENT — Schmidt, Garden & Martin, archts., 104 South Michigan Ave., taking bids 12 story and basement, 45 x 180 ft., brick, 5344-48 Cornell Ave., for F. L. Holzer, 29 South La Salle St.

Ill., Chicago—APARTMENT—Oldefest & Williams, archts., 605 North Michigan Ave., taking bids 10 story and basement, 54 x 150 ft., brick and terra cotta, Dearborn and Maple Sts., for Landsboro Hotel Corp., J. M. Lansinger, pres., 1527 Juneway Terrace. $500,000.

Ill., Chicago — OFFICE — Jan. 21, by Holabird & Roche, archts., 104 South Michigan Ave., 36 story and basement, 40 x 125 ft., brick, steel and stone, 129 West Madison St., for Roanoke Building Corp., 129 West Madison St. $3,000,000.

Ill., Moline—TEMPLE—Apr. 1, by Whitsett & Schulzke, archts., Peoples Bank Bldg., 3 story and basement, 112 x 185 ft., concrete, brick and stone, 8th Ave. and 18th St., for Masonic Lodge of Moline, C. J. Seymour, chn. $400,000. Noted Nov. 26.

Wis., Milwaukee—THEATRE—Jan. 22, by Dick & Bauer, archts., 811 State St., 1 and 2 story and basement, 52 x 225 ft., brick and concrete, plain foundation, Vliet St., for Colonial Amusement Co., 984 Sherman Blvd. $300,000. Noted July 2.

Wis., Milwaukee—THEATRE and BUSINESS—Peacock & Frank, archts., 445 Milwaukee St., taking bids 2 story and basement, 100 x 120 ft., brick and concrete, plain foundation, Centre and 37th Sts., for Sillimans Theatres, Inc., 530 Grand Ave. $250,000.

Wis., Wausau—THEATRE—Oppenhamer & Obel, archts., Bellin Bldg., Green Bay, taking bids 2 story and basement, 112 x 137 ft., brick and concrete, plain foundation, here, for Wausau Theatres Co., 208 Scott St. $150,000. Noted Dec. 17.

Mo., St. Louis—HOTEL—L. C. Penningroth, c/o Forest Park Hotel, Euclid and West Pine Sts., taking bids 7 story and basement, rein.-con., brick and stone addition to Forest Park Hotel, Euclid Ave. and West Pine Blvd. $400,000. G. D. Barnett, Syndicate Trust Bldg., archt.

Calif., Los Angeles — APARTMENT — S. Goldberg, 3177 Malabar Ave., taking bids 4 story, 75 x 90 ft., 4th St. and Beaudry Ave. $160,000. Morrow & Baer, 4675 Hollywood Blvd., archts. and engrs.

Calif., Los Angeles — BANK — Morgan, Walls & Clements, superv. archts., 1124 Van Nuys Bldg., taking bids 1 story, mezzanine and basement, 79 x 129 ft., rein.-con., 214-222 North Main St., for Bank of Italy. $250,000. H. A. Minton, Monad Bldg., San Francisco, archt.

Calif., Los Angeles — HOTEL — Sun Realty Co., 742 South Hill St., taking bids 13 story and basement, 122 x 150 ft., rein.-con., 7th and Hartford Sts. $1,000,000. Curlett & Beelman, 408 Union Bank Bldg., engrs. Noted May 14.

Calif., Los Angeles — P. R. Williams, archt., Stock Exch. Bldg., taking new bids 4 story and basement, 100 x 100 ft., rein.-con., 28th St., for Y. M. C. A. $150,000. Former bids rejected. Noted Dec. 3.

Calif., Oakland—HOTEL—J. L. Stewart, archt., 703 Market St., San Francisco, taking bids 2,400 tons structural steel for 14 story Class "A" hotel, here, for United Income Properties Co., San Francisco.

CONTRACTS AWARDED

N. Y., New York—OFFICE—New York Life Insurance Co., 346 Bway., brick, steel and stone, plain foundation, Madison Ave. and 26th St., to Starrett Bros., Inc., 292 Madison Ave. Archts. est. $10,000,000. Noted May 22, 1924.

N. Y., New York—OFFICE—Stone & Webster (owners and contractors), 120 Bway., will build 14 story, brick, steel and stone, plain foundation, Water St. Private plans.

N. J., Elizabeth—HOSPITAL—St. Elizabeths Hospital, 204 South Broad St., brick, steel and stone, plain foundation, South Broad St., to M. C. Tredennick Co., 25 West 45th St., New York City. Archts. est. $400,000. Noted Oct. 8.

Pa., Connellsville — EXCHANGE — Bell Telephone Co. of Pennsylvania, Phila., general contract 3 story and basement exchange, here, to W. F. Trimble & Sons, 1719 Penn. Ave., Pittsburgh. Archts. est. $225,000. Noted Nov. 5.

Pa., Phila.—AUDITORIUM—Sesquicentennial Exposition, 5th and Chestnut Sts., 1 story, 274 x 447 ft., stucco and steel, wood pile foundation, Broad and Pattison Sts., to Turner Constr. Co., 1718 Sansom St., $399,040.

Pa., Phila.—BANK—Phoenix Trust Co., 29th and Dauphin Sts., 2 story and basement, 50 x 100 ft., rein.-con., brick and steel, plain foundation, Lehigh Ave. below 11th St., to H. Gill, Jr., 2515 Germantown Ave. Archts. est. $150,000.

Pa., Phila.—STORAGE—Lynn Storage Co., 21st and Thompson Sts., 5 story and basement, 33 x 100 ft., rein.-con. and brick, plain foundation, 1236-38 Cadwallader St., to Murphy-Quigley Co., 1524 Sansom St.

Ga., Atlanta—STORE and WAREHOUSE—Sears, Roebuck & Co., Arthington and Homan Sts., Chicago, Ill., 9 story and basement, 200 x 450 ft., rein.-con., brick and steel, to B. W. Constr. Co., 720 Cass St., Chicago, Ill., at cost plus basis. Archts. est. $3,000,000. Noted Dec. 17.

Miss., Natchez—HOTEL—E. Weil, archt., Whitney Bldg., New Orleans, La., 6 story fireproof hotel, here, to J. V. and R. T. Burke, Carondelet Bldg., New Orleans, La., for I. Levy, Natchez. Archts. est. $200,000. Noted Oct. 29.

O., Cincinnati — HOSPITAL — Good Samaritan Hospital, Clifton Ave., 5 story and basement, rein.-con. and brick, plain foundation, to Ferro Concrete Co., 3rd and Elm Sts., $500,000.

O., Cleveland—HOTEL—M. Arnoff, 42a Leader-News Bldg., masonry contract 6 story and basement, 70 x 170 ft., brick, steel and concrete, East 86th St., to Adelowitz & Lemowitz, 3475 East 118th St. Archts. total est. $400,000.

O., East Cleveland (Cleveland P. O.)—APARTMENT—J. Narosny, 13407 3rd Ave., 3 story and basement, 88 x 105 ft., brick and steel, 13410 2nd Ave., to Kuskin & Levine, 9912 North Blvd., Cleveland. Archts. est. $150,000.

Ill., Chicago — APARTMENT — Arden Chemical Corp., c/o Hess & Weeks, archts., 18 East 49th St., New York City, 12 story, brick, steel and stone, plain foundation, 68 East Walton Pl., here, to Hegeman-Harris, 1907 Tribune Tower. Archts. est. $500,000.

Ill., Chicago—APARTMENT—W. C. Bannerman & Co., 77 West Washington St., masonry and concrete, contract 13 story and basement, 50 x 110 ft. apartment, 426 Belmont Ave., to A. Lindstrom, 77 West Washington St. Archts. est. $750,000.

Ill., Chicago — APARTMENT — B. A. Kausal, 7 South Dearborn St., general contract 5 story and basement, 75 x 135 ft., brick and terra cotta, plain foundation, 6151 Winthrop Ave., to Callner Constr. Co., 177 North State St. Archts. est. $400,000. Noted Sept. 3.

Ill., Chicago—APARTMENT—P. Klein-Exel, 110 North Dearborn St., carpentry contract 5 story, 87½ x 116 ft., rein.-con., hollow tile, brick and Bedford stone, to R. E. Tullgren, 6407 South Park Ave.; mill, to Buhai Mfg. Co., 415 Armour St.; lumber, to Lippman Lumber & Wrecking Co., 3058 West Chicago Ave.; heating and plumbing, to Noble & Thumm, 1065 Addison St.; elevator, to Reliance Elevator Co., 212 West Austin Ave. Noted Dec. 17.

Ill., Chicago—APARTMENT and STORE—G. H. J. Haas, 130 North Wells St., masonry contract 3 story, 160 x 300 ft., rein.-con., brick and stone, 5806-44 West Lake St., to H. C. Jensen, 4918 North Hamilton Ave.; carpentry contract, to A. Anderson, 2301 North Keating Ave. Archts. est. $475,000. Noted Oct. 15.

Mich., Battle Creek—HOSPITAL—Leida Y. Post Montgomery, general contract 4 story hospital, to R. G. Phelps, Battle Creek. Archts. est. $400,000.

Mich., Detroit — APARTMENT — Bayer Development Co., c/o A. Kahn, archt., 1000 Marquette Bldg., 7 story and basement, 175 x 175 ft., rein.-con., brick and steel, plain foundation, Seward Ave., to O. Misch Co., 159 East Columbia Ave. Noted Nov. 19.

Wis., Madison — THEATRE — Beecroft Building Co., 6 West Mifflin St., 1 story, rein.-con., brick and steel, plain foundation, State St., to A. S. and J. V. Frederickson, 702 East Main St. Archts. est. $575,000. Noted May 21.

Minn., Hopkins—POOR HOUSE—G. H. Mallon, chn. Bd. Comrs. Hennepin Co., Court House, general contract 3 story and basement, rein.-con., brick and stone poor house, incl. laundry and equipment, to J. C. Nelson & Son, 915 Northeast Bway., Minneapolis. $134,300. Noted Dec. 31.

Mo., St. Louis — ADMINISTRATION — Bd. Pub. Serv., 208 City Hall, 2 story and

See proposal advertisements on page 131, Advertising Section.

Buildings—Commercial (Continued)

basement, rein.-con., brick and stone, Arsenal St., to John Hill Constr. Co., Syndicate Trust Bldg., for Isolation Hospital. $268,516. Noted Jan. 7.

Calif., Los Angeles — APARTMENT and HOTEL — H. H. Albernathy, Wilcox Ave. and Hollywood Blvd., general contract 13 story, 75 x 106 ft., rein.-con., Hollywood Blvd., to L. A. Housing Corp., Black Bldg., $1,500,000.

Calif., Los Angeles — WAREHOUSE — Challenge Cream & Butter Assn., 1219 South San Pedro St., 2 story and basement, rein.-con., Vignes and 2nd Sts., to M. L. Marvin, 5957 South St. Andrews Pl., $180,-955. Noted Dec. 17.

Calif., San Francisco—TEMPLE—Congregation Emanuel, Lake St. and Arguello Blvd., rein.-con., Lake St. and 2nd Ave., to MacDonald & Kahn, 130 Montgomery St., $185,000.

Calif., Santa Barbara—HOTEL—J. H. Fest, 4 story and basement, 78 x 200 ft., concrete and brick, Estado and Haley Sts., to C. M. Urton Co., 325 West Victoria St., $157,522. Noted Dec. 31.

Ont., Goderich — MUNICIPAL — Town, general contract 3 story and basement, 75 x 100 ft., rein.-con., brick and steel, plain foundation, to Avery-Shipp Constr. Co., 261 Beresford Ave., Toronto. Archts. est. $150,000.

Ont., Ridgeway—MAUSOLEUM—Canada Mausoleums Ltd., Metropolitan Bldg., Toronto, for mausoleum, cut stone, to Ritchie Cut Stone Co., 191 Grant Ave., Hamilton; and marble, to Wallace Sandstone Quarries, 120 James St., Montreal, Que. Archts. est. $150,000. Noted Sept. 24.

Ont., Toronto — APARTMENT — Deer Park Manor Ltd., Deer Park Crescent and St. Clair Ave. W., general contract 3 story and basement, rein.-con., brick and steel, plain foundation, St. Clair Ave. and Deer Park, to J. V. Gray, Constr. Co., Confederation Life Bldg. Archts. est. $300,000.

Buildings—Educational, Religious

PROPOSED WORK

Conn., Bristol — NURSES HOME — T. G. Treadway, chn. building com., Oakland St., plans addition to hospital as nurses home. $150,000 incl. equipment.

Conn., New Haven — ART SCHOOL — Yale Art School, Yale University, had plans prepared by Edgerton Swartout, 18 West 34th St., New York City, stone art school, Chapel St. $2,000,000.

N. Y., Jamaica—SCHOOL—Bd. Educ., 500 Park Ave., New York City, having plans prepared by W. H. Gompert, engr. and archt., Flatbush Ave. extension and Concord St., Brooklyn, P. S. 117, 3 story, 60 x 155 ft., brick, steel and stone, plain foundation, 143rd St. and 85th Ave., here. $450,000.

N. Y., New York—GYMNASIUM—New York University, University Ave. plans brick, steel and stone plain foundation, University and Burnside Aves. $500,000. Private plans.

N. Y., Pelham (Ind. br. New York) — SCHOOL—Bd. Educ. soon takes bids 2 story, 50 x 100 ft., brick, steel and stone addition, plain foundation. $300,000. Starrett & Van Vleck, 393 7th Ave., New York City, engrs. and archts.

N. Y., Queens (Ind. br. Jamaica)—HIGH SCHOOL—Bd. Educ., 500 Park Ave., New York City, having plans prepared by W. H. Gompert, engr. and archt., Flatbush Ave. extension and Concord St., Brooklyn, brick, steel and stone plain foundation, Rockaway Blvd. and Peconic Ave., here. $3,000,000.

Pa., Altoona—CHURCH—Second United Brethern Church, c/o G. R. Strayer, pastor, 217 5th Ave., takes bids probably in April, 2 story and basement, 90 x 120 ft. church, 5th Ave. $150,000. J. C. Fulton & Sons, Uniontown, archts.

O., Cincinnati — COLLEGE — Eclectic Medical College, 630 West 6th St., having plans prepared by S. S. and G. H. Godley, Southern Ry. Bldg., 4 story and basement, rein.-con. and brick, plain foundation, Lincoln Ave. $200,000.

O., Cleveland—SCHOOL—Bd. Educ., F. J. Hogan, dir., having preliminary plans prepared by G. M. Hopkinson, Auditorium-Garage Bldg., 2 story, concrete, brick and steel, Fleet Ave. and Independence Rd. $250,000.

O., Cleveland—SCHOOL—Bd. Educ., F. G. Hogen, dir., having sketches made by G. M. Hopkinson, Auditorium-Garage Bldg., 3 story and basement, 96 x 218 ft., concrete, brick and steel, West 45th St. and Ira Ave. $650,000.

Ind., Franklin—SCHOOL—Franklin College, C. E. Gordell, pres., having plans prepared by C. Hodgson, archt. and engr., 7745 Hermitage Ave., Chicago, Ill., brick, steel and rein.-con. science building. $200,000.

Ind., Gary — SCHOOLS — Bd. School Trustees, W. Wirt, supt., soon takes bids Glen Park Grade School, 3 story and basement, 70 x 126 ft., incl. auditorium and 2 gymnasiums, $155,000; also Tolleston Grade School, 3 story and basement, 71 x 135 ft., incl. 2 gymnasiums, and auditorium. $150,-000, both rein.-con., brick and steel. J. Wildermuth, Gary, archt.

Mich., Kingsford (mail Iron Mountain)—SCHOOLS — Election Jan. 26, $600,000 bonds 2 brick and tile grade schools, and high school addition, for Breitung Twp. Bd. Educ., J. Roth, secy., F. E. and G. F. Parmelee, Iron Mountain, archts. Noted Dec. 10.

Ill., Bloomington — MUSIC — Illinois Wesleyan University plans new music building on campus. $150,000. Engineer and architect not selected.

Ill., Chicago — PHARMACY — Schmidt, Gardner & Martin, archts., 104 South Michigan Ave., takes bids about Feb. 10, Pharmacy Building, 715 South Wood St., for University of Illinois, c/o A. White, Urbana, Ill. $400,000.

Wis., Racine — SCHOOL — St. Edwards Congregation, 1330 Grove Ave., had plans prepared by J. M. Matson, Baker Blk., and soon takes bids 2 story and basement, 69 x 127 ft., brick and tile school. $150,000.

Kan., Atchinson — MONASTERY — St. Benedict's Abbey having plans prepared by E. Brielmaier & Sons Co., 432 Bway., Milwaukee, Wis., 2 and 3 story and basement, 280 x 530 ft., rein.-con. and brick monastery. $1,000,000.

Okla., Shawnee — DORMITORY — Oklahoma Baptist College, having preliminary plans prepared 3 story and basement girls dormitory, on campus. $175,000. Engineer and architect not selected.

Calif., Arcadia — SCHOOLS — Defeated $155,000 bonds, 2 grade schools, Arcadia School Dist. Noted Dec. 3.

Calif., Eagle Rock (br. Los Angeles)— —CHURCH—First Church of Christ Scientist, having plans prepared by G. A. Howard, Jr., Story Bldg., Los Angeles, 1 story, 100 x 150 x 150 ft., rein.-con. church.

Calif., Eagle Rock (br. Los Angeles)—HIGH SCHOOL—Bd. Educ., Los Angeles, having plans prepared by C. M. Winslow, Van Nuys Bldg., 2 story, 64 x 270 ft. with 20 x 45 ft. wing administration building, 88 x 140 ft. auditorium, 1 story, 62 x 120 ft. with 35 x 120 ft. wing domestic science building, 1 story, 100 x 150 ft. gymnasium, and 62 x 110 ft. shop, etc., here. $345,000.

Calif., El Segundo—SCHOOL—Bd. Educ., El Segundo, election Jan. 15, $500,000 bonds, purchase site and build new high school buildings. A. W. Rea & C. E. Garstang, Trust & Savings Bldg., Los Angeles, archts.

Calif., Hollister — HIGH SCHOOL — Hollister High School Dist. plans election $150,000 or more bonds, high school. W. H. Weeks, 369 Pine St., San Francisco, archt.

Calif., Los Angeles — CHURCH — Christian Church, Pico Blvd., having plans prepared by H. Cross, Merchants Natl. Bank Bldg., 1 story, 60 x 150 ft., stucco and rein.-con., Pico Blvd. and Arlington Ave. $150,000.

Calif., San Francisco—HIGH SCHOOL—City and San Francisco Co., having plans prepared by J. Reid, Jr., City Hall, fireproof high school, Onondago Ave. To exceed

Calif., San Rafael — HIGH SCHOOL — Marin Co., plans election $300,000 or more bonds, Junior High School.

Calif., Tulare—SCHOOL—Tulare School Dist., plans election $150,000 bonds, school additions, here. Swartz & Ryland, Rowell Bldg., Fresno, archts.

Ont., Stratford — SCHOOL — Bd. Educ., plans 3 story and basement, grade and technical school, rein.-con., brick and steel, plain foundation, here. $240,000. Engineer and architect not selected.

Ont., Toronto—CHURCH—Corpus Christi Roman Catholic Church, Queen St. and Lockwood Rd., having plans prepared by J. G. Morton, 61 Dixon Ave., 1 and 2 story and basement, rein.-con., steel, brick and stone, plain foundation. $160,000.

Ont., Windsor — SCHOOL — Bd. Educ. having plans prepared by Cameron & Ralston, Windsor, 3 story and basement, concrete, brick, stone and steel, plain foundation, Tecumseh Rd. $300,000.

BIDS DESIRED

O., Newton Falls—SCHOOL—Jan. 30, Bd. Educ., H. E. Wolcott, clk., Youngstown, 2 story, brick, steel and concrete school, here. $150,000. Miller & Son, 12 West Madison St., Youngstown, archts.

Tex., Ft. Worth—SCHOOL—W. G. Clarkson & Co., archts., 1st Natl. Bank Bldg., taking bids Sam Rosen Ward School, 2 story and basement, 13,000 sq.ft. floor space, rein.-con., brick and stone, 1702 West 26th St., for Bd. Educ., c/o M. H. Moore, supt., 921 Jennings Ave. $150,000.

Tex., Wichita Falls—HIGH SCHOOL—Bd. Educ. taking bids 3 story, 104 x 137 ft., rein.-con., brick and stone, plain foundation, Polk and Taylor Sts. $150,000. Voelcker & Dixon, 312 Morgan Bldg., archts. Noted Nov. 19.

BIDS RECEIVED

N. Y., Bayside (Ind. Sta. Flushing)—SCHOOL—W. H. Gompert, supt. schools, Flathush Ave. extension and Concord St., Brooklyn, Jan. 6, P. S. 41, 35th Ave. from 214th Pl. to 214th Lane, here, for Bd. Educ., 500 Park Ave., New York City, from M. F. Kelly, 33 Old Bway., New York City, $298,840; heating, from Almirall & Co., 1 Dominick St., New York City, $35,280. Noted Dec. 24.

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, 4 story and basement, 65 x 169 ft., rein.-con. and brick, plain foundation, Spring Garden St. west of 13th St., general contract, from W. Langhorne, 10 South 18th St., $465,787; electrical work, from Walker & Kepler, 531 Chestnut St., $15,993; and heating, from Phila. Piping & Eng. Co., 1605 Rockland St., $27,500.

D. C., Wash. — HIGH SCHOOL — Dist. Comrs., District Bldg., Jan. 5, John R. Francis Junior High School, from C. H. Tompkins, 1612 Park Rd., $409,700. Noted Dec. 24.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., general contract 2 story and basement, rein.-con., brick and steel, plain foundation, Puritan Ave., from A. W. Kutche Co., 333 State St., $123,760; heating, from Drake Avery Co., 210 State St., $42,590. Noted Dec. 10.

CONTRACTS AWARDED

Conn., Stamford—SCHOOL—City, C. H. Martin, chn. School Com., 2 story and basement, brick and steel, Woodland Ave., to M. A. Genovese, 70 Davenport St., $193,878. Noted Dec. 31.

Pa., Phila.—SCHOOL—Lincoln Preparatory School, 536 Pine St., 3 story and basement, 40 x 130 ft., brick and steel, plain foundation, 717 Spruce St., to W. Gilchrist, 5310 Osage St.

Pa., Pittsburgh — HIGH SCHOOL — Roman Catholic Diocese of Pittsburgh, c/o H. C. Boyle, pastor, 5th Ave. and Craig St., Boys High School, 4 story and basement, irregular shaped, 5th Ave. and Boundary St., to H. Busse Co., Main and Wabash Sts. Archts. est. $500,000. Noted Aug. 27.

Mich., Detroit — SCHOOLS — Bd. Educ., 1354 Bway. Ave., 3 story and basement, 82 x 185 ft., rein.-con., brick and steel high school addition, plain foundation, Owen Ave., to R. F. Hill, 408 West Fort St., $250,-857, heating equipment, etc., to Harrigan & Reid Co., 1705 1st St., $51,895; also 2 story and basement, rein.-con., brick and steel, plain foundation, Visger Ave., to M. A. Mahoney, Penobscot Bldg., $119,300, heating, etc., to J. W. Partlan, 13900 Algonquin Ave., $44,188. Grand total $466,-240. Noted Jan. 7.

Mich., Ecorse—SCHOOL—Bd. Educ., L. Salliotte, secy., 2 story and basement, rein.-con., brick and steel, plain foundation, to W. W. DeLange, 7040 Farnsworth Ave., Detroit, about $175,000. Noted Nov. 12.

Mich., Eloise—DORMITORY—Wayne Co. Supt. of Poor, City Service Bldg., 3 story and part basement, rein.-con., brick and steel, plain foundation, Michigan Ave., to Stibbard Constr. Co., 3000 Grand River Ave., Detroit. Archts. est. $150,000. Noted Nov. 12.

Mich., Highland Park (br. Detroit)—SCHOOL—Bd. Educ., 3 story, 100 x 200 ft., rein.-con., brick and steel, plain foundation, Buena Vista Ave., to Martin Krausmann Co., 955 East Jefferson Ave., Detroit, $255,-950. Noted Dec. 24.

Federal Government Work

PROPOSED WORK

Va., Norfolk — Bridge — U. S. Engineer Office, rejected bids Dec. 16, steel swing, draw span bridge. Noted Nov. 19.

BIDS DESIRED

N. Y., St. George—Steel Bodies—Jan. 25, by Supt. Lighthouses, 11 steel bodies for gas buoys with skeleton lantern tower, 2 bodies to be 9 ft. diam., 38 ft. long, and 9 bodies 8 ft. diam., 20 ft. long.

N. C., Charlotte — Post Office — Jan. 22, by Treas. Dept. at office Supervising Architect, Wash., D. C., alterations at U. S. Post office, here.

See proposal advertisements on page 131, Advertising Section.

Federal Government Work (Continued)

Fla., Jacksonville—Storehouse, etc.—Feb 6, by U. S. Engineer Office, storehouse and road; adv. E. N.-R. Jan. 14.

Ky., Louisville—Metal Work—Feb. 11, by U. S. Engineer Office, metal work for Chanoine and Beartrap Weirs; adv. E. N.-R. Jan. 14.

Idaho and Oregon—Radial Gates, etc.—Feb. 19, by Bureau of Reclamation, Denver, Colo., 15 radial gates and 15 motor driven gate hoists for American Falls Dam, Minidoka Project, and 6 radial gates and 6 double drum hoists for McKay Dam, Umatilla Project, Ore. E. Mead, comr.; adv. E. N.-R. Jan. 14.

Ariz., Prescott—Post Office—Feb. 1, by Treas. Dept. at office Supervising Archt., Wash., D. C., constructing post office, here.

Calif., Eureka—Radio Tower—Spec. 5161—Feb. 10, by Bureau Yards & Docks, Navy Dept., Wash., D. C., 125 ft., steel and concrete radio tower, at Naval Radio Station, here. Noted Dec. 10.

BIDS RECEIVED

D. C., Wash.—Bridge—Arlington Memorial Bridge Comn., C. O. Sherrill, executive officer, Navy Bldg., piers and abutments of Arlington Memorial bridge over Potomac River, from H. P. Converse, 161 Devonshire St., Boston, Mass., cofferdam construction $1,299,000 (550 days); from Rhinehart Dennis Co., Charlottesville, Va., open cofferdam $1,792,439 (550 days); and from Dravo Contg. Co., Neville Island, Pittsburgh, Pa. caisson method $1,797,500 (680 days). Noted Nov. 26.

Ga., Atlanta — Sewer — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Jan. 5, sewer line at U. S. Veterans Hospital, here, from Landers Plumbing & Heating Co., 138 Edgewood Rd., $7,366 (118 days). Noted Dec. 17.

Ala., Mobile—Wharf, etc.—Treas. Dept., at office Supervising Archt., Wash., D. C., creosoted pile wharf and gangway for U. S. Quarantine Station, (San Island), here from Jett-Quill Constr. Co., Mobile, $21,575. Noted Dec. 31.

Ill., Chicago—Plumbing—Treas. Dept., at office Supervising Archt., Wash., D. C., Jan. 4, renewing plumbing, pipes, etc., at post office, here, from S. Kersten, 554 West Jackson Blvd., $10,442. Noted Dec. 17.

Wis., Janesville — Post Office — Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here, from W. D. Lovell, 1415 8th St. S. E., Minneapolis, Minn., $21,485. Noted Dec. 17.

CONTRACTS AWARDED

D. C., Wash.—Barges—Inland Waterways Corp., 1016 Munitions Bldg., 10 steel barges, each 2,000 ton capacity, use on Mississippi River, to Dravo Contg. Co., Neville Island, Pittsburgh, Pa. Noted Dec. 3.

Ga., Savannah — Remodeling — Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Marine Hospital, here, to T. R. Worrell, 101 East 40th St., $5,600. Noted Jan. 7.

Miss., Vicksburg—Hull—U. S. Engineer Office, steel hull for concrete mixing plant and steel maneuver boat hull, to Howard Ship Yards & Dock Co., Jeffersonville, Ind., $19,743 and $11,437 respectively. Noted Dec. 3.

La., Shreveport — Remodeling — Treas. Dept., at office Supervising Architect, Wash., D. C., extending and remodeling post office, here, to W. D. Lovell, 1415 8th St. S. E., Minneapolis, Minn., $24,250. Noted Dec. 3.

Ky., Louisville—Metal Work—U. S. Engineer Office, metal work for Navigable Pass of Dam 52, Ohio River, Lot A, to C. Hegewald & Co., New Albany, Ind., $16,990; Lot B, to Owensboro Fdry. Co., Owensboro, Ky., $7,840; Lot C, to J. and J. B. Milholland Co., 714 5th Ave., Pittsburgh, Pa., $3,900; Lots D and E, to Amer. Car & Fdry. Co., Jeffersonville, Ind., $14,520 and $39,816 respectively. Grand total $83,066. Noted Dec. 3.

Calif., Los Angeles—Post Office, etc.—Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling post office, courthouse, and custom house, here, to Houghton & Anderson, 143 Rose St., $6,354. Noted Dec. 3.

T. H., Honolulu — Dredging — U. S. Engineer Office, dredging in Honolulu Harbor, to Hawaiian Dredging Co., Ltd., Honolulu, $21,850. Noted Oct. 29.

T. H., Pearl Harbor—Fences and Gates—Spec. 5147—Bureau Yards & Docks, Navy Dept., Wash., D. C., fences and gates, at Naval Operating Base, here, to J. L. Young Eng. Co., Ltd., Honolulu, $10,000 (150 days). Noted Dec. 10.

Unclassified

PROPOSED WORK

Ferry Terminal—Long Island City, N. Y.—Dept. Plants & Structures, Municipal Bldg., New York City, making plans ferry terminal between 6th and 7th Sts., here. $50,000.

Waterfront Development—Miami, Fla.—Election Feb. 10, $1,500,000 bonds, developing waterfront.

Lighting System—Peoria, Ill.—Bd. Local Impvts., C. F. Barston, pres., takes bids in early spring 2 mi. ornamental lighting system on Knoxville Ave. from Main St. to Maywood Ave. $25,000. W. E. Backes, City Hall, engr.

Transmission Line — Wisconsin — Milwaukee Electric Ry. & Light Co., Pub. Serv. Bldg., Milwaukee, plans 200 mi. transmission line in 10 counties in southern Wisconsin. G. G. Post, c/o owner, engr.

Grain Elevator—Ponca City, Okla.—See "Buildings—Industrial."

Hydro-Electric Development — Oroville, Calif.—Hammon Eng. Co., Insurance Exch. Bldg., San Francisco, making preliminary plans generating electricity in connection with Oroville-Wyandotte Irrigation Dist., taking waters from south fork Feather River and Dry Creek in Butte Co., incl. developing 75,028 hp., or alternate 69,170 hp. $4,000,000. S. J. Norris, Oroville, engr.

Swimming Pool—Petaluma, Calif.—City plans election $65,000 bonds, swimming pool.

Electric System—Fonthill, Ont.—Village plans electric distribution system, transformers, etc. $25,000. A. M. Clark, clk.

Wharves—Toronto, Ont.—Toronto Harbor Comn. plans moving and rebuilding wharves, incl. main wharf, structure and shed, $18,000 and $20,000 respectively; Wards Island Wharf, $7,000, Centre Island Wharf $16,750, Manitou Wharf $2,250, and Lakeside Horne Wharf $200. E. L. Cousins, Harbor Comn. Bldg., engr.

BIDS DESIRED

Subway—New York, N. Y.—Jan. 22, by J. H. Delaney, chn. Bd. Transportation, 49 Lafayette St., subway, Sect. 5, Route 102, along and under 8th Ave. from West 48th to 58th Sts., incl. spurs under private property from West 52nd to 54th Sts.

Swimming Pool—Dover, N. J.—Jan. 28, by Bd. Directors Morris Co. Holding Corp., Arrow Bldg., J. C. Bennett, mgr., grading, concrete work, etc. in connection with construction swimming pool and lake at Colonial Lake Amusement Park, here. R. Sharp, Baker Bldg., engr.; adv. E. N.-R. Jan. 14.

Turbo Generator — Greenwood, Miss. — Jan. 18, by P. B. Dennis, secy. Light & Water Comn., turbo generator with condenser, accessories and appurtenances.

Police and Fire Alarm Systems — Milwaukee, Wis.—Jan. 22, by Central Bd. Purchases, J. W. Nicholson, ch. buyer, 75 combination fire-police posts and one 3 position telephone switchboard. To exceed $5,000.

Heating, etc.—Oshkosh, Wis.—Jan. 25, Bd. Industrial Educ., H. Schriber, pres., heating, plumbing and electrical work for 2 story and basement vocational school and recreation building. $300,000. Auler & Jensen, F. R. A. Bldg., archts. Noted Oct. 1 under "Buildings — Educational, Religious."

Swimming Pool — Mason City, Ia. — See "Buildings—Commercial."

Transmission Lines — Arkansas — See "Contracts Awarded."

BIDS RECEIVED

Subway—Long Island City, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, subway Sect. 6-E-1, Route 8, under and along Wyckoff Ave. from Halsey St. to Cooper Ave., here, from Oakdale Constr. Co., 169 Wyckoff Ave., Brooklyn, (unofficial) $1,345,778. Noted Dec. 31.

Fill—Phila., Pa.—Dept. Pub. Wks., Bureau of Engineering, Jan. 5, 180,000 cu.yd. fill upon city owned property, Broad and Pattison Sts., from Richards-Kelly Co., Inc., 349 North 57th St., at $0.74 per cu.yd., total $133,200.

Wharf Sheds — San Francisco, Calif. — State Bd. Harbor Comn., Ferry Bldg., Dec. 31, two 1 story, timber and concrete sheds, from D. Nordstrom, 4146 Emerald St., Oakland, $142,765. Noted Dec. 17.

CONTRACTS AWARDED

Entrance, etc.—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., additional entrance stairway, at Burnside Ave. Station, Agreement "EA," to N. A. Deiser, 280 Madison Ave., $5,350. Noted Jan. 7.

Stairway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., additional stairway, 86th St. Station, Manhattan-Bronx Rapid Transit R.R., to Pattelli & Wilson, 6011 12th Ave., Brooklyn, $21,967. Noted Jan. 7.

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., subway Sect. 2, Route 102, along and under 8th Ave. from West 18th to 28th Sts., to G. H. Flinn, 17 Battery Pl., $5,026,608. This corrects report in Jan. 7 issue.

Revetment — Milwaukee, Wis. — Harbor Comn., E. Brunckneh, secy., City Hall, anchor pile reinforcing approximately 1,375 lin.ft. revetment on Jones Island, to S. M. Seisel Co., 160 Ogden Ave., about $62,727. Noted Nov. 26.

Chimney—Houston, Tex.—Gulf Refining Co., Frick Annex, Pittsburgh, Pa., general contract 250 ft. brick, chimney, here, to Rust Eng. Co., 3rd Ave. and Ross St., Pittsburgh, Pa. Engrs. est. $25,000.

Chimney—Houston, Tex.—Humbolt Oil Co., 250 ft. rein.-con. chimney, to Rust Eng Co., 3rd Ave. and Ross St., Pittsburgh, Pa. Engrs. est. $25,000.

Transit Shed—San Pedro, Calif.—Harbor Comn., 1017 South Figueroa St., Los Angeles, 120 x 1000 ft. steel and corrugated iron transit shed, Berth 30, to Lynch Constr. Co., Central Bldg., Los Angeles, $91,326. Noted Dec. 3.

Gas Container — Guelph, Ont. — Light Comn., gas container, to Horton Steel Wks., Bridgeburg, $70,000.

Wharf—Midland, Ont.—Dept. Pub. Wks., Parliament Bldg., Ottawa, concrete and timber wharf and dredging in harbor, here, to MacDonald Eng. Co., Ltd., C. P. R. Bldg., Toronto, $92,787. Engrs. est. $95,000. Noted Oct. 29.

Stadium—Toronto, Ont.—Toronto Baseball & Athletic Club, Royal Alexander Theatre, King St. W., general contract stadium, to Russell Constr. Co. Ltd., Harbor Comn. Bldg.; concrete piles, to Raymond Concrete Pile Co., New Birks Bldg., Montreal, Que.; and structural steel, to Dominion Bridge Co., Reford Bldg., and McGregor & McIntyre, Shaw St. Engrs. est $300,000.

Materials

BIDS DESIRED

Lime—Long Island City, N. Y.—Jan. 19, by M. E. Connolly, pres. Quens Boro, Queens Subway Bldg., 1,000 tons lime to various disposal plants.

Concrete, Sand, etc.—New York, N. Y.—Jan. 19, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., 1,500 cu.yd. concrete and paving sand; 7,000 cu. yd. binder stone; 10,000 cu.yd. asphalt sand; 4,000 cu.yd. 1½ in. waterbound macadam stone; 2,000 cu.yd. ¾ in. broken stone; 800,000 gal. bituminous road surfacing material, asphalt road oil for cold application; 125,000 gal. tar; 250,000 gal. bituminous road surfacing material for cold application, 10,000 cu.yd. sand grits; 1,200 tons asphaltic cement; 5,000 bags cement, and 900 tons inorganic dust.

Pipe, etc.—New York, N. Y.—Jan. 21, by P. J. Dooling, comr. Purchase, Municipal Bldg., pipe, pipe fittings, etc., for various departments.

Cement—Minnesota—Jan. 21, by C. M. Babcock, comr. Highways, St. Paul, approximately 600,000 bbl. Portland cement for highway construction, for State Hy. Dept., St. Paul. Noted Sept. 17.

BIDS RECEIVED

Inorganic Dust, etc.—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., Jan. 5, 4,000 tons inorganic dust, from Limestone Products Co., 17 West 42nd St., $19,880; 20,000 cu.yd. asphalt sand, from Z. Mahoney, 557 46th St., Brooklyn, $20,600; 700,000 gal. asphaltic cement, from Standard Oil Co. of New York, 26 Bway., $46,690; and 10,000 cu.yd. ¾ in. binder stone, from New York Trap Rock Corp., 101 Park Ave., $19,300. Noted Dec. 31.

CONTRACTS AWARDED

Road Material — Trenton, N. J.—Freeholders Mercer Co., 50,000 gal. tar (cold patch) road repair material, to T. Tobish, Mechanic Bldg., $9,200. Noted Dec. 31.

See proposal advertisements on page 131, Advertising Section.

CONSTRUCTION NEWS

Engineering News-Record, Jan. 21, 1926

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Sewers, Detroit, Mich., Dept. Pub. Wks. plans sewers in newly annexed territory, total, $24,140,000.

Railway, Missouri, St. Louis-San Francisco R.R. Co. making preliminary plans for 174 miles and equipment, total, $21,000,000.

Railway, Missouri, Wabash R.R. Co. making plans for improvement and equipment, total, $10,500,000.

Hotel, Ft. Lauderdale, Fla., U. S. Realty Co. having preliminary plans prepared, $6,000,000.

Sewers, Los Angeles, Calif., Los Angeles Co. Sanitation Dist. plans bond election, $4,400,000.

Roads, Texas, Edinburg-Hidalgo Co. making plans for gravel and hard surfacing 214 mi., $3,500,000.

Railway, Missouri, St. Louis-Southwestern R.R. Co. making preliminary plans for tracks and improvements, total, $3,450,000.

Warehouse, St. Louis, Mo., Butler Building Co. making preliminary plans, $3,000,000.

Market, Providence, R. I., R. T. J. Hill Pierce, Inc., preparing plans, $2,500,000.

Sewers, Atlanta, Ga., plans bond election, $2,000,000.

Schools, Atlanta, Ga., plans bond election, $2,000,000.

Cement plant, Buffalo, N. Y., Buffalo Slag Co. plans cement plant, $2,000,000.

Apartment, New York, N. Y., Park Ave. Leasing Corp. having plans prepared, $2,000,000.

Road, California, State Highway Dept. plans road, $2,000,000.

Highway, Monroe, La., Ouachita Parish plans improving 97 mi., $1,750,000.

School, New York, N. Y., New York University plans School of Commerce, Accounts and Finance, $1,500,000.

Bids Wanted On Big Jobs

Bank and office, New Orleans, La., Feb. 20, by E. Weil, archt., for Canal Bank & Trust Co., $4,000,000.

Apartment, Chicago, Ill., McNally & Quinn, archts., taking bids, $2,100,000.

Hospital, Tampa, Fla., Jan. 26, City Council, $1,000,000.

Lodge, Oakland, Calif., C. Werner, archt., soon takes bids for Masonic Cathedral Assn., $1,000,000.

Large Contracts Let During Week

Hotel, Detroit, Mich., J. J. Barlum to O. Misch Co., $2,500,000.

Office, New Orleans, La., Chicago Syndicate, Inc., to Ferro Construction Co., $1,500,000.

PROPOSALS

Bids Close		See Eng. News-Record
	WATERWORKS	
Jan. 25	Albion, Ill.	Jan. 21
Jan. 25	Towson, Md.	Jan. 21
	Adv. Jan. 7 to 21.	
Jan. 25	Lockport, Ill.	Jan. 21
Jan. 26	Warsaw, Ill.	Dec. 17
Jan. 27	Cincinnati, O.	Jan. 21
Jan. 29	Mt. Union, Pa.	Jan. 14
Jan. 29	Dayton, O.	Jan. 14
	Adv. Jan. 14 and 21.	
Jan. 29	Cincinnati, O.	Jan. 21
Jan. 30	Racine, Wis.	Jan. 14
Feb. 2	Wasco, Calif.	Jan. 21
Feb. 5	Okolona, Miss.	Jan. 14
Feb. 8	Springfield, Mass.	Jan. 21
	Adv. Jan. 21.	
Feb. 9	Tallahassee, Fla.	Jan. 21
	Adv. Jan. 21.	
Feb. 10	Anderson, Ind.	Jan. 21
Feb. 11	Salisbury, Md.	Jan. 21
	Adv. Jan. 21.	
Feb. 11	Port Arthur, Tex.	Jan. 21
Feb. 16	Knoxville, Tenn.	Jan. 21
	Adv. Jan. 21.	
Feb. 16	St. Louis, Mo.	Jan. 21
	Adv. Jan. 21.	
Feb. 24	Willard, N. Y.	Jan. 21
	SEWERS	
Jan. 25	Miami, Fla.	Jan. 7
Jan. 26	Montgomery, Ala.	Dec. 31
Jan. 26	Pella, Ia.	Jan. 21
Jan. 26	Hamilton, Ont.	Jan. 21
Jan. 27	Phila., Pa.	Jan. 21
Jan. 27	Baltimore, Md.	Jan. 21
Jan. 28	St. George, N. Y.	Jan. 21
Jan. 28	Akron, O.	Dec. 24
Jan. 29	Sikeston, Mo.	Jan. 7
Feb. 2	Springfield, Ill.	Jan. 7
Feb. 8	Quakertown, Pa.	Jan. 21
	Adv. Jan. 21.	
Feb. 9	Toledo, O.	Jan. 21
	Adv. Jan. 21.	
Mar. 10	Waco, Tex.	Jan. 7
Mar. 15	Waco, Tex.	Jan. 21
	BRIDGES	
Jan. 28	Elkhart, Ind.	Dec. 31
Jan. 28	Goshen, Ind.	Dec. 31
Jan. 29	Independence, Kan.	Jan. 14
Jan. 29	Georgia	Jan. 21
Feb. 2	Oklahoma	Jan. 21
Feb. 3	New Jersey	Jan. 21
	Adv. Jan. 21.	
Feb. 3	San Antonio, Tex.	Jan. 7
Feb. 8	Pennsylvania	Jan. 21
Feb. 10	Alabama	Jan. 21
Feb. 16	Louisiana	Jan. 21
Mar. 1	Key West, Fla.	Jan. 21
	Adv. Jan. 21.	
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES RIVER AND HARBOR	
Jan. 27	Ft. Pierce, Fla.	Dec. 24
Feb. 8	Allenhurst, N. J.	Jan. 14
Feb. 10	Stuart, Fla.	Jan. 14
	Adv. Jan. 14 and 21.	
Feb. 18	Mobile, Ala.	Jan. 21
	Adv. Jan. 21.	
	STREETS AND ROADS	
Jan. 22	Ohio	Jan. 14
Jan. 23	Galesburg, Ill.	Jan. 21
Jan. 25	Miami, Fla.	Jan. 7
Jan. 25	Sycamore, Ill.	Jan. 14
Jan. 26	Louisiana	Jan. 14
Jan. 26	St. Louis, Mo.	Dec. 31
Jan. 26	Louisiana	Jan. 7
Jan. 26	Tulia, Tex.	Jan. 21
Jan. 27	Indiana	Jan. 14
Jan. 27	Elmwood, Ill.	Jan. 21
Jan. 28	Virginia	Jan. 14
Jan. 29	Georgia	Jan. 21
Jan. 29	Tampa, Fla.	Jan. 21
Feb. 1	San Diego, Calif.	Jan. 21
Feb. 1	Willows, Calif.	Jan. 21
Feb. 1	Fergus Falls, Minn.	Jan. 14
Feb. 2	Oklahoma	Jan. 21
Feb. 2	Blue Island, Ill.	Jan. 21
Feb. 2	Stillwater, Minn.	Jan. 21
Feb. 3	New Jersey	Jan. 14
	Adv. Jan. 14 and 21.	
Feb. 4	Concordia, Kan.	Jan. 14
Feb. 4	Ord, Neb.	Jan. 21
Feb. 5	Erie, Kan.	Jan. 14
Feb. 5	Pennsylvania	Dec. 31
Feb. 5	Harrisville, W. Va.	Jan. 21
Feb. 5	Cleburne, Tex.	Jan. 21
Feb. 6	Pennsylvania	Dec. 31
Feb. 8	Kentucky	Jan. 7
Feb. 8	Mobile, Ala.	Jan. 21
	Adv. Jan. 21.	
Feb. 9	Minnesota	Jan. 21
Feb. 9	Louisiana	Jan. 21
Feb. 9	Minnesota	Jan. 14
Feb. 10	Belvidere, N. J.	Jan. 21
	Adv. Jan. 21.	
Feb. 10	Alabama	Jan. 21
Feb. 15	Anderson, Ind.	Jan. 21
Feb. 16	St. Louis, Mo.	Jan. 21
Feb. 19	Pennsylvania	Jan. 14
	Adv. Jan. 14 and 21.	
Feb. 20	Pennsylvania	Jan. 14
	Adv. Jan. 14 and 21.	
Feb. 25	Kenosha, Wis.	Jan. 14
Mar. 1	Indiana	Jan. 7
	BUILDINGS—INDUSTRIAL	
Jan. 23	Detroit, Mich.	Jan. 21
Jan. 25	Albany, Ga.	Jan. 14
Jan. 28	Ft. Worth, Tex.	Dec. 31
Feb. 1	Chester, Pa.	Jan. 21
Mar. 1	Chicago, Ill.	Jan. 14
	BUILDINGS—COMMERCIAL	
Jan. 25	Phila., Pa.	Jan. 21
Jan. 26	Redfield, S. D.	Jan. 7
Jan. 26	Buffalo, N. Y.	Jan. 14
Jan. 26	Tampa, Fla.	Jan. 21
Jan. 28	Jersey City, N. J.	Jan. 7
Jan. 28	Greensboro, N. C.	Jan. 14
Jan. 28	Pawtucket, R. I.	Jan. 21
Jan. 28	Oshkosh, Wis.	Jan. 21
Jan. 30	Des Moines, Ia.	Jan. 21
Feb. 1	Zenith, Wash.	Jan. 21
Feb. 2	Cleveland Heights (Warrensville P. O.), O.	Jan. 21
Feb. 8	Trenton, N. J.	Jan. 21
Feb. 16	St. Louis, Mo.	Jan. 21
Feb. 20	New Orleans, La.	Jan. 21
Mar. 1	Duluth, Minn.	Jan. 7
Mar. 4	West Haverstraw, N. Y.	Jan. 21
Apr. 1	Moline, Ill.	Jan. 14
Apr. 1	Youngstown, O.	Dec. 31
	BUILDINGS—EDUCATIONAL, RELIGIOUS	
Jan. 22	Muncie, Ind.	Jan. 7
Jan. 26	Minneapolis, Minn.	Jan. 21
Jan. 27	University (sta. St. Louis), Mo.	Jan. 21
Jan. 28	Lincoln, Neb.	Dec. 31
Jan. 29	West Englewood, N. J.	Jan. 21
	Adv. Jan. 21.	
Jan. 30	Newton Falls, O.	Jan. 14
Feb. 1	Terre Haute, Ind.	Jan. 21
Feb. 1	Terre Haute, Ind.	Jan. 7
Feb. 1	Milan, Mich.	Jan. 21
Feb. 2	Lincoln, Neb.	Jan. 7
Feb. 3	Owings Mills, Md.	Jan. 21
Feb. 12	New Orleans, La.	Jan. 21
Feb. 16	Wellsville, N. Y.	Jan. 21
Feb. 22	Ferndale (br. Detroit), Mich.	Jan. 21
Feb. 24	Williamsport, Pa.	Jan. 7
Feb. 27	Duluth, Minn.	Dec. 17
Mar. 3	Baton Rouge, La.	Jan. 21
Mar. 15	Lewistown, Pa.	Jan. 21

See proposal advertisements on page 116, Advertising Section.

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Caulking Means EXPENSE---
No Caulking Means PROFIT

Making LEADITE Joints on 24 inch c. i. B & S Force Main

It is needless waste of time, money and labor to caulk cast iron bell and spigot water mains.

Why not turn this expenditure into a profit?

Use Leadite which is melted and poured into the joint.

Leadite forms a water-tight bond by filling every crevice of the joint from the yarn out to face of bell of pipe, without caulking.

Leadite means simplicity, efficiency and economy.

Water works all over the world use Leadite because it makes a good joint which improves with age.

Leadite resists electrolysis.

Leadite facilitates rapid progress of the work generally.

Leadite does not corrode or rust.

Leadite has been successfully tested and used for over 30 years.

Thousands of miles of pipe jointed with Leadite are in service.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids Close — See Eng. News-Record

FEDERAL GOVERNMENT WORK

Jan. 22 Lime—Louisville, Ky. ..... Dec. 31
Adv. Dec. 24 to Jan. 21.
Jan. 25 Steel Bodies—St. George, N. Y. ..... Jan. 14
Jan. 26 Hospital—Ft. Snelling (br. St. Paul), Minn. ..... Dec. 17
Jan. 27 Recreation—Tuskegee, Ala. ..... Jan. 7
Jan. 28 Barges—Savannah, Ga. ..... Jan. 7
Adv. Jan. 7 to 21.
Feb. 1 Valves, etc.—Nebraska and Wyoming ..... Jan. 21
Adv. Jan. 21.
Feb. 1 Dam—Louisville, Ky. ..... Dec. 24
Adv. Dec. 17 to Jan. 7 and 21.
Feb. 1 Post Office—Prescott, Ariz. ..... Jan. 14
Feb. 1 Acetylene Flashers — St. George, N. Y. ..... Jan. 21
Feb. 3 Pipe Masts—Panama, C. Z. ..... Jan. 7
Adv. Jan. 14 and 21.
Feb. 3 Dredging—Galveston, Tex. ..... Jan. 7
Adv. Jan. 7 to 21.
Feb. 6 Storehouse—Jacksonville, Fla. ..... Jan. 14
Adv. Jan. 14 and 21.
Feb. 10 Radio Tower—Eureka, Calif. ..... Jan. 14
Feb. 11 Metal Work—Louisville, Ky. ..... Jan. 14
Adv. Jan. 14 and 21.
Feb. 16 Hull—St. Louis, Mo. ..... Jan. 21
Adv. Jan. 21.
Feb. 19 Radial Gates—Idaho and Oregon ..... Jan. 14
Adv. Jan. 14 and 21.
Feb. 23 Valves, etc.—Nebraska ..... Jan. 21
Adv. Jan. 21.
Feb. 24 Administration—Pearl Harbor, T. H. ..... Jan. 7
Mar. 1 Cruiser—Wash., D. C. ..... Dec. 31
Mar. 3 Hospital—Mare Island, Calif. ..... Jan. 21
Adv. Jan. 21.
Mar. 15 Breakwater—Hilo, T. H. ..... Jan. 21
Adv. Jan. 21.

UNCLASSIFIED

Jan. 22 Subway—New York, N. Y. .. Jan. 14
Jan. 25 Heating, Plumbing and Electrical Work—Oshkosh, Wis. Jan. 14
Jan. 26 Circuit Breakers, etc.—Wellington, New Zealand ..... Nov. 26
Jan. 26 Heating, etc. — Ithaca, N. Y. ..... Dec. 31
Jan. 26 Subway—New York, N. Y. .. Jan. 7
Jan. 27 Boilers, Generators, etc. — Menomonie, Wis. ..... Jan. 21
Jan. 28 Swimming Pool—Dover, N. J. ..... Jan. 14
Jan. 29 Subway—New York, N. Y. ..... Jan. 21
Feb. 1 Swimming Pool—Los Gatos, Calif. ..... Jan. 21
Feb. 1 Swimming Pool—Yonkers, N. Y. ..... Jan. 21
Adv. Jan. 14 and 21.
Feb. 5 Subway—New York, N. Y. .. Jan. 7
Feb. 9 Wharf — Lake Charles, La. ..... Jan. 21
Feb. 10 Coal Handling Plants—Melbourne, Australia ..... Dec. 17
Feb. 10 Foundation—Indianapolis, Ind. ..... Jan. 7
Feb. 16 Circuit Breakers—Auckland, New Zealand ..... Dec. 10
Mar. 23 Panels, Filters, etc.—Wellington, N. Z. ..... Jan. 21

MATERIALS

Jan. 25 Paving Materials—Minneapolis, Minn. ..... Jan. 21
Jan. 25 Lumber, etc.—Harlan, Ia. .. Jan. 21
Jan. 28 Sand Grit, etc.—New York, N. Y. ..... Jan. 21
Jan. 28 Iron Castings—New York, N. Y. ..... Jan. 21

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. C., Bryson City—Plans to issue $20,000 bonds, waterworks. W. T. Conley, city clk.

N. C., Four Oaks—See "Sewers."

N. C., Greensboro—Election soon $200,000 bonds, waterworks. C. T. Sherrill, city clk.

N. C., Wilmington — Plans water and sewer extensions. $35,000 bonds sold to finance same, also $30,000 for equipment.

Ga., Rome—Election in spring $300,000 bonds, waterworks, sewers and paving various streets. Robert & Co., Tuft Bldg., Atlanta, engrs.

Fla., Ft. Meade—Election Feb. 9, $35,000 bonds, extending mains in various streets.

Miss., Ocean Springs—See "Unclassified."

La., Monroe — See "Buildings — Educational, Religious."

Tenn., Nashville—Dept. Waterworks appropriated $18,000 meters and couplings, $31,600 chemicals for purification, $3,100 fire hydrants and $4,000 cleaning reservoir. H. E. House, mayor.

O., Cincinnati—Hamilton Co. plans 18,586 ft. 4 and 6 in. c.i. mains in Water Supply Line 29 Sanitary Sewer Dist. 3, (Golf Manor), $44,894; 43,332 ft. 6- to 10-in. c.i. mains, etc., in Water Supply Line 24, Sanitary Sewer Dist. 2, $105,776. L. C. Boyatt, Court House, engr.

Ill., Bloomington — Making preliminary surveys improving water and light plants, incl. Diesel engines, etc. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

Ill., Kewanee—Bd. Local Impvts., J. H. Andrews, pres., plans 6 in. c.i. mains in Rose St. from West to Washington Sts., Western Ave. from Washington to Adams Sts., Roseview St. from West to Adams Sts., Zang Ave. from Franklin to West Sts., West St. from Roseview to Prospect Sts., 11th St. from Grace Ave. to East St., and East St. from 10th to 11th Sts.; and 4 in. mains in Washington St. from Rose to Western Sts., and in Adams St. from Western to Prospect Sts. $15,000. J. G. Palmer, City Hall, engr.

Ill., Macomb—Voted $100,000 bonds, deep wells, extending mains, etc., in various streets. H. Holmes, Court House, engr.

Ill., Rockford — Plans 1 steam driven 3,500 cu.ft. air compressor, 2 deep wells with conduits and air lines at west end pumping plant, also extending and reinforcing distributing mains. $100,000. B. C. Harvey, City Hall, engr.

Ia., Allerton — Plans waterworks. $15,000. A. B. Cobb, city clk. Engineer not selected.

Minn., Minneapolis — E. L. Noyes, city clk., plans to sell $1,444,000 bonds, waterworks. N. W. Elsberg, city engr.

Minn., Minneapolis — F. S. Gram, city purch. agt., plans to purchase 5,000 water meters, for City. N. W. Elsberg, city engr.

S. D., Willow Lake—F. Peack, city aud., making plans waterworks, incl. sinking deep wells, installing pump equipment, distribution mains, etc. $20,000. Engineer not announced.

Tex., Hereford—Election Feb. 2, $7,500 bonds, pipe, fire hydrants, etc. for waterworks extensions. E. S. Ireland, City Hall, mayor.

Tex., Marshall — Election soon $50,000 bonds, extending mains, etc. in various streets. M. Ramsey, City Hall, city engr.

Okla., Calvin—Making preliminary plans new waterworks. $17,000. H. E. Davis, mayor. Engineer not selected.

Okla., Collinsville — Made preliminary plans 3 new high pressure boilers for water plant. $30,000 bond election in spring for same. Holway Eng. Co., Wright Bldg., Tulsa, engrs.

Okla., Henryetta—Plans election $200,000 bonds, impounding reservoir, filter plant, and main extensions, etc. Holway Eng. Co., 503 Wright Bldg., Tulsa, engr.

Okla., Kingfisher—Election Jan. 26, $690,000 bonds, waterworks improvements, incl. softening plant, 18 mi. pipe line, etc., also dam at Lugert. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Spiro—Voted $15,000 bonds, 8,000 ft. 8 in. c.i. mains in various streets. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs.

Calif., Laguna Beach — Voted $600,000 bonds, waterworks.

Calif., Oceanside—Plans 3 m.g. reservoir.

Calif., Santa Cruz — Plans to purchase 6,000 lin.ft. 12 in. or 246 tons Class "B" c.i. pipe. S. A. Evans, city clk. J. K. James, city engr.

Calif., Upland—Soon takes bids 5,600 ft. 12 in. steel pipe and ditch, 6,000 ft. 8 in. and 5,500 ft. 6 in. stand and black pipe and ditch, 2 m.g. concrete reservoir, etc. R. G. Manly, 336 East 9th St., engr. Noted Dec. 3.

Que., Quebec—Plans pumping station, for new section of city. $90,000. F. C. Baillarge, Quebec, engr.

Ont., Toronto — York Twp. plans 5,000 lin.ft. 6 in. c.i. mains, etc. in various streets. $17,000. F. B. Goedike, 40 Jarvis St., engr.

BIDS DESIRED

Mass., Springfield—Feb. 8, by Bd. Water Comrs., Municipal Bldg., 3,475 lengths 6- to 10-in. Class E pipe, reducers, tees, plugs, etc. H. M. King, supt.; adv. E. N.-R. Jan. 21.

N. Y., Willard—Feb. 24, by State Hospital Comn., Albany, additional watermains for fire protection for Willard State Hospital, here. S. W. Jones, Capitol, Albany, state archt.

Md., Salisbury — Feb. 11, by Salisbury Water & Sewer Comn., C. E. Harper, chm., water mains and appurtenances, Contr. 14. F. H. Dryden, ch. engr.; adv. E. N.-R. Jan. 21.

Md., Towson—Jan. 25, by Comrs. Baltimore Co., Court House, mains, etc., as listed in Proposals 7W and 8W, in Pikesville. A. E. Walden, engr.; adv. E. N.-R. Jan. 14.

Fla., Tallahassee — Feb. 9, by B. H. Bridges, city aud. and clk., switch board complete, generator, engine and deep well pump. W. R. Galt, city mgr.; adv. E. N.-R. Jan. 21.

Tenn., Knoxville — Feb. 16, by City Council Chambers, City Hall Park, pumping station, reservoir and filter plant. Alvord, Burdict & Howson, 1417 Hartford Bldg., Chicago, engrs.; adv. E. N.-R. Jan. 21. Noted Oct. 29.

O., Cincinnati—Jan. 27, by Director Pub. Serv., 73,300 ft. 4- to 12-in. c.i. mains in various streets. $75,000. C. O. Sherrill, City Hall, engr. Noted Jan. 14.

O., Cincinnati—Jan. 29, by Comrs. Hamilton Co., for Water Supply Line 7, Dist. 1, (Silverton-Contr. 1), 3,400 ft. 16 in. c.i. pipe, eight 5 ton castings and five 16 in. valves and chambers. $24,000. L. C. Boyatt, Court House, engr.

Ind., Anderson — Feb. 10, by M. H. Donney, engr., Anderson, 3 deep water wells with pumps, etc. complete, for City.

Ill., Albion — Jan. 25, by City Clerk, complete waterworks and distribution system. To exceed $15,000. Caldwell Eng. Co., Jacksonville, engrs.

Ill., Lockport—Jan. 25, at City Hall, deep well, pumping station, etc. Maury & Gordon, 1445 Monadnock Blk., Chicago, consult. engrs. Noted Oct. 29.

Wis., Wauwatosa—Jan. 29, by Bd. Purchases, A. V. Brigham, secy., fifty 5 in. fire hydrants, fifty 6 in. and twelve 12 in. gate valves, 75 roadway boxes, one thousand ¾ in. and three hundred ⅝ in. corporation cocks, one thousand 1 in. and three hundred ¾ in. curb stops, three hundred each ⅝ in. and ¾ in. meter stops, also six hundred ⅝ in. meter couplings, etc. for Water Dept.

Mo., St. Louis — Feb. 16, by Bd. Pub. Serv., rapid sand filter plant at Howards Bend, St. Louis Co.; adv. E. N.-R. Jan. 21. Noted Jan. 7.

Ark., Fayetteville — See "Waterworks under Contracts Awarded."

Tex., Port Arthur — Feb. 11, by J. C. Hamilton, city clk., 1,000 ft. 24 in. Class "B" H. and S. pipe, two 12 x 12 H. and S. crosses, two 24 x 24 H. & S. tees, five 24 in. valves, for City.

Okla., Cushing—City in market low lift pump to raise water from lake to filter plant.

Calif., Wasco — Feb. 2, by Directors Wasco Pub. Utility Dist., 27,000 lin.ft. c.i. 4- to 10-in. water pipe, 2 deep well pumping plants. Noted Nov. 12.

BIDS RECEIVED

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Jan. 12, mains in Douglaston Parkway, Winchester Blvd., etc., from Gregory Contg. Co., 351 East 124th St., New York City, $117,474. Noted Jan. 7.

N. Y., St. George — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Jan. 12, mains in Beach, Bryant, Carlton, Cromwell, Fidler, Fremont Aves., etc., from Knight & DeMicco, 448 East Tremont Ave., New York City, $25,215. Noted Jan. 7.

Ill., Lebanon—City Clerk for Bd. Local Impvts., 34,600 ft. 4- to 6-in. c.i. pipe, 45 fire hydrants, eight 8 in., twenty-two 4 in. and twenty-two 6 in. gate valves, etc., from E. K. Ladd, Peotone, $49,960. Noted Jan. 7.

Minn., Minneapolis — F. S. Gram, city purch. agt., Jan. 12, special castings, from Amer. Brake Shoe Fdry. Co., 37th Ave. N. E. and University Ave., $71.75 per ton; and 8,000 lin.ft. c.i. pipe, from Amer. Cast Iron Pipe Co., 712 Plymouth Bldg. at $0.935 per ft.

Calif., San Diego—Common Council, Jan. 11, from B. Noble, Spreckels Bldg., water system in Alta Vista, Homedale St., etc., 6,495 lin.ft. 4 in. c.i. pipe $1.50 per lin.ft., and 11,802 lin.ft. 6 in. c.i. pipe $1.80, etc., total $33,783.

See proposal advertisements on page 116, Advertising Section.

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THERE is an old saying that you cannot eat your cake and have it too, and it's true of most things. Nearly all commodities are consumed in use. Food is consumed. Clothing is consumed.

But there is a product used but not consumed. Cement is used in making concrete, and concrete is permanent. It grows stronger with age. It cannot rust, rot, or burn. It endures.

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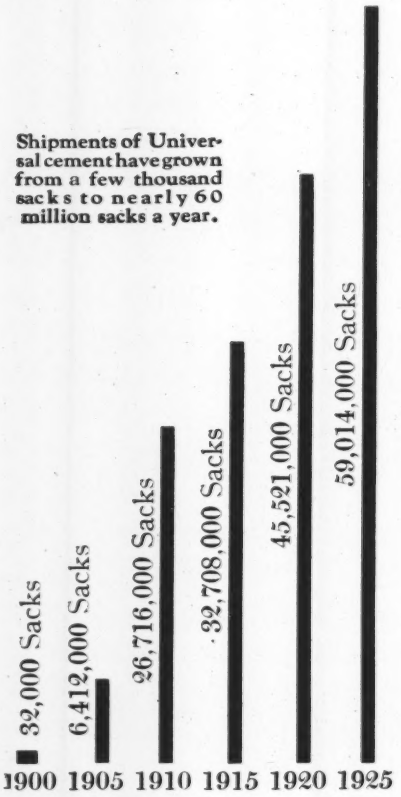

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Concrete for Permanence

Waterworks (Continued)

CONTRACTS AWARDED

Mich., Detroit—Bd. Water Comrs., 4,500 tons 36 in. Class C c.i. pipe, to U. S. Cast Iron Pipe & Fdry. Co., Burlington, N. J., $42.60 per ton.

Ill., Golconda — For 2 water towers, 2 rein.-con. storage basin, 2 deep wells, 23,195 lin.ft. c.i. mains, pumping station, etc., to E. K. Ladd, Peotone, $139,000.

Ark., Fayetteville—For 1,200 gal. duplex pump with necessary equipment, to Fairbanks-Morse Co., 900 South Wabash Ave., Chicago, Ill.; also city will build 125 ft. concrete dam on White River, by day labor. E. M. Ratliff, Stone Bldg., engr.

Tex., Wellington — Extending mains in various streets, also additional pumping equipment, etc., to Panhandle Constr. Co., Lubbock, approximately $32,000.

Sewers

PROPOSED WORK

Conn., Bridgeport—Plans sewage disposal plant, Congress St. To exceed $25,000. J. A. McElroy, city engr.

Pa., Pittsburgh — Making preliminary plans sewers in Greenway Dr. $60,000. City Bureau of Engineering, Dept. Pub. Wks., engrs.

N. C., Four Oaks—Making plans sanitary sewers in various streets, $70,000; also water pump and motor, $10,000. J. B. McCrary Co., Citizens & Savings Bank Bldg., Atlanta, Ga., engrs. Noted Dec. 24.

N. C., La Grange—Plans to issue $50,000 bonds, sewerage system.

Ga., Atlanta—Plans election in March or April $2,000,000 bonds, sewers and removing Peachtree Creek disposal plant to point closer to river. W. Sims, mayor.

Ga., Rome—See "Waterworks."

Fla., Ft. Meade—Election Feb. 9, $65,000 bonds, sewers in various streets.

Miss., Ocean Springs—See "Unclassified."

O., Fairview—Takes bids in spring sewers in Lorain St., Sewer Dist. 1, and Elmore Ave. To exceed $25,000. E. H. Arnold, Town Hall, engr.

O., Geneva-on-the-Lake — Ashtabula Co. (Jefferson) made preliminary plans 2 sewage treatment plants at Red Brook, here. R. F. MacDowell, 1770 East 11th St., Cleveland, engr.

Mich., Detroit—Dept. Pub. Wks., making plans brick and concrete sewers in newly annexed districts, incl. 1,650 lin.ft. each in Buchanan, Otis and Toledo Aves. from Military to Junction Aves. $42,000 each, 2,400 lin.ft. Commonwealth Ave. from Grand River to Lysender Aves. $52,800, 2,000 lin.ft. Carr Ave. Sewer from Brainard to Canfield Aves. $44,000, all foregoing 5½ ft.; 1,700 lin.ft. each in Waveney Ave. Arm and in Southampton Ave. Arm from Kennsington to Cadieux Aves. $31,000 each, and 2,600 lin.ft. Seven Mile Rd. from Connors to Townline Rds. $47,000, all foregoing 3 to 4½ ft.; 5,000 ft. Sherwood-Winchester Sewer from Moran to Windfield Sts. $105,000, 5,000 lin.ft. Atlantic-Winchester Sewer from Lamont to Mound Aves. $105,000, and 3,000 lin.ft. Pembroke Ave. Sewer from Wyoming to Crudder Aves. $75,000, all foregoing 3½ to 6 ft.; 4,600 lin.ft. each in Schoenherr Ave. Sewer and Walthan Ave. Sewer from Seven Mile to Brinker Rds. $161,000 and $138,000 respectively, both 5 to 7 ft.; 5,300 lin.ft. Mack Ave. Sewer from Bedford to Kennsington Aves. $117,000 and 1,500 lin.ft. Southampton Ave. Arm from Bedford to Kennsington Aves. $34,000, both 4 to 6 ft.; 4,300 lin.ft. 11 ft. cylinder, West Ave. Sewer from Fort to River Rouge Sts. $344,000; 2,300 lin.ft. 9½ ft. cylinder in Springwells Ave. Sewer from Fort to Longworth Sts., $138,000; 3,200 lin.ft. 6 ft. in Springwells-Gartner Ave. Sewer from Longworth to Lawnsdale Aves., $96,000; 6,000 lin.ft. Fort Street Ave. Sewer 5½ to 7½ ft. from Elsmere to Waterman Sts., $210,000; 5,000 lin.ft. Longworth-Pershing Ave. Sewer 6 to 7 ft., from Lansdale to Waterman Aves., $150,000; 3,800 lin.ft. 6 ft. cylinder in Ferndale-Woodmere Sewer from Mulane to River Rouge Sts., $95,000; 8,400 lin.ft. 11½ ft. Cavalry Ave. from River to Toledo Sts., $672,000; 3,500 lin.ft. 10 ft. in Hammond Ave. Sewer from Toledo to Otis Aves., $228,000; 2,600 lin.ft. 8½ ft. Hammond Ave. Sewer from Otis to Buchanan Sts., $130,000; 13,600 lin.ft. 9 ft. in 12th St. from River to Brainard Sts., $612,000; 4,500 lin.ft. 5½ to 9 ft. in Brainard St. Sewer from 12th to Cass Sts., $112,500; 11,500 lin.ft. 10 to 12½ ft. in Outer Drive-Hayes Blvd. Sewer from Harper to Seven Mile Rd., $805,000; 2,600 lin.ft. 5 to 7 ft. in Hayes Blvd. from Seven Mile to Daniels Rd., $57,000; 1,400 lin.ft. 10 ft. Seven Mile Rd. Sewer from MacCary to Hayes Rds., $84,000; 4,600 lin.ft. 7 to 9 ft. Seven Mile Rd. Sewer from Schoenherr to Arnold Rds., $230,000; 2,600 ft. 5 and 6 ft. in Crossmann Ave. Sewer from Daniels to Eight Mile Rd., $65,000; 2,540 lin.ft. 3 to 4 ft. in Taylor Ave. Arm from Sommerset to Whitehall Sts., $46,000; 7,700 lin.ft. 4½ to 8 ft. Cadieux-Seven Mile Dr. from Harper to Kelly Aves., $170,000; 4,200 lin.ft. 3 to 5 ft. Greiner Ave. Sewer from Connors to Hamburg Aves., $75,000; 4,000 lin.ft. 4½ to 9 ft. State Fair Extension from Mound to Texas Aves., $112,000; 5,000 lin.ft. 3½ to 5 ft. in Griggs-Curtis Sewer from Sheffield to Wyoming Aves., $105,000; also sewer in Liddesdale Ave. from Gleason to Pleasant Aves., $490,000; Pelham-Fort Sewer from Liddlesdale to Dix Aves., $200,000; Dearborn Ave. Sewer from Campbell to Dumbries Aves., $90,000; Corbin-Downing Sewer from Liddesdale to Dumfries Aves., $75,000 and Visger-Francis Sewer from Bassett to Dumfries Aves., $85,000. P. A. Fellows, City Hall, engr.

Mich., Detroit—Dept. Pub. Wks., making plans sewers in newly annexed territory incl. diverting Connors Creek Outlet sewer 5,600 lin.ft. down Detroit River to harbor line, $2,400,000; diversion tunnel in Freud Ave. to carry off water from Fox Creek basin to Connors Creek outlet, $3,420,000; Upper Fox Creek Public Sewer, $2,700,000; Fox Creek Trunk Sewer and pumping station, $4,216,000; Jefferson Ave. Relief Sewer and pumping station at Connors Creek, $5,459,000; 10 mi. storm sewers in separate sewer districts east of Connors to Cadieux and north of Mack and Harper Aves., $150,000; outlet section, Lonyo Sewer Dist., $150,000; 4,600 ft. 5 to 7 ft. cylinder in Arnold Ave. Sewer from Seven Mile Rd to Brinker Ave. $138,000, 1,800 ft. 10 ft. 6 in. State Fair Ave. Sewer from Van Dyke to Connors Ave. $81,000, 2,900 ft., 13½ ft. Connors Creek Sewer from Seven Mile Rd. to State Fair Ave. $180,000, 5,600 ft. 12½ ft. Burns Ave. Sewer from river to Charlevoix Ave. $448,000, 2,800 ft. 11 ft. Burns Ave. Sewer from Charlevoix to Sylvester Aves $182,000, 4,500 ft. 10 ft. Burns Ave. Sewer from Sylvester to Chapin $247,000, 3,000 ft. 7 ft. Burns Ave. Sewer from Chapin to Harper Aves. $105,000, 4,800 ft. 5 to 6½ ft., Charlevoix Ave. Sewer from Van Dyke to Cadillac Ave. $144,000, 6,500 ft. 3½ to 8 ft. Sylvester Ave. Sewer from Field to Cadillac Aves. $195,000, 7,500 lin.ft. 4½ to 8 ft. Palmer-Chapin Sewer from Canton to Cadillac Aves. $225,000; Laterals and Public arms (city's portion of expense) connecting lateral sewers to trunk sewers $2,800,000; also docks and outlets $900,000. P. A. Fellows, city engr.

Ill., Decatur—Plans mains and laterals in North Side Sewer Project. $434,000. M. P. O'Brien, City Hall, engr. Noted July 30.

Ill., Rockford—Made plans approximately 2 mi. sewers in Cunningham, Blake, Loomis, Morgan and Kent Sts. $33,000. B. C. Harvey, City Hall, engr. Noted Jan. 14.

Wis., Milwaukee—J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., rejected bids Dec. 30, two 5,000 g.p.m. motor driven float controlled centrifugal pumps, for Mud Creek low level sewerage booster station. Noted Jan. 7.

Wis., North Fond du Lac (br. Fond du Lac)—Election Jan. 26, $13,000 bonds, two sewage pumps. J. Donohue Eng. Co., 608 North 8th St., Sheboygan, engr.

Ark., Gentry — Plans 6 mi. sanitary sewers in various streets. $33,000. Engineer not selected.

Tex., Amarillo — Making plans disposal plant, incl. 36 ft. Imhoff tank, 2 mechanical aeration and 1 Dorr tank. $53,000. H. B. Jones, Amarillo, engr. Noted Nov. 19.

Okla., Spiro — Made preliminary plans sewers in all streets. $27,000. M. L. Coon, mayor. Engineer not announced.

Calif., Glendale—City Trustees rejected bids Dec. 31, sewers in Lateral Sewer Dist. 2 (North Central Section), 68,637 lin.ft. 8 and 10 in. vitr. pipe, 126 lin.ft. 8 and 10 in. vitr. pipe encased in concrete, c.i. water pipe, wyes, etc. Noted Dec. 24.

Calif., Los Angeles — Los Angeles Co. Sanitation Dist. 7 (incl. Monrovia, El Monte, Alhambra, Arcadia, Flintridge, Lamanda Park, Sierra Madre, South Pasadena, Altadena, San Marino, etc.) plans election $4,400,000 bonds, sewers in various streets.

Que., Montreal—City Council soon takes bids trunk sewer in St. Paul's Ward. $1,700,000. H. A. Terrault, city engr.

Ont., Toronto — East York Twp. plans 6,000 lin.ft. 8 in. vitr. tile sewer in Goodwood Park Crescent $12,353, Main St. $8,983, and Rosevear Ave. $5,181. G. R. Jack, 443 Sammon Ave., engr.

BIDS DESIRED

N. Y., St. George — Jan. 28, by J. A. Lynch, pres. Richmond Boro, Boro Hall, temporary sanitary sewers in Mill Rd., 6th St., Hylan Blvd. (Southside Ave.), Guyon and Adelaide Aves., all in New Dorp, Oakwood and vicinity, Contr. 5.

Pa., Phila.—Jan. 27, by Dept. Pub. Wks., Bureau of Engineering, Schedule A, branch sewer; Schedule B, removal of present and constructing new sewers; Schedule C, inlets, laterals, and appurtenant work; Schedule D, test borings. G. H. Biles, dir.

Pa., Quakertown — Feb. 8* by Boro. Council, F. A. Krauss, secy., sewage treatment plant, known as Contr. 2 of Proposed Sewerage System. Remington & Vosbury, 509 Cooper St., Camden, N. J., engrs.; adv. E. N.-R. Jan. 21.

Md., Baltimore—Jan. 27, by Bd. Awards, 21,500 lin.ft. 24- to 60-in. rein.-con. pipe. M. J. Ruark, City Hall, sewerage engr.

O., Toledo—Feb. 9, by W. T. Jackson, dir. Pub. Serv., Storm Sewer 1269, and Main Combined Sewer 1488. C. Baker, secy.; adv. E. N.-R. Jan. 21.

Ia., Pella—Jan. 26, by A. C. Kuyper, city clk., City Hall, 3,140 ft. 10 in. and 20,684 ft. 8 in. vitr. clay 100 ft. 6 in. vitr. clay riser, 300 ft. 8 in. c.i. sewers, etc. in various streets. W. A. Price 1010 Clinton St., Des Moines, engr. Noted Dec. 10.

Tex., Waco—Mar. 15, by City, activated sludge type sewage disposal plant. $250,000. Terrell Bartlett Engineers, Calcasieu Bldg., San Antonio, engrs. V. G. Koch, city engr. Noted Jan. 7.

Ont., Hamilton—Jan. 26, by F. F. Treleaven, mayor, City Hall, high tension equipment, transformers, 5 vertical electric motors, automatic switching equipment, etc., for Gage Ave. Sewage Pumping Station. W. L. McFaul, City Hall, engr.

CONTRACTS AWARDED

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, (*e. e. means engineers estimate*) sewers in Rutland Rd. and East 18th St. to Tomasetti & Co., Inc., 1133 60th St., 74% e. e. $10,134 and 67% $6,106 respectively. Noted Jan. 14.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Ericsson Ave., to Greenough Coppinger, 9301 86th St., Woodhaven, $2,749; storm sewer in Metropolitan Ave., to J. Gallo, 203 Division St., Brooklyn, $44,124; sewer in North Conduit Ave. to Kennedy & Smith, 93 Amity St., Flushing $79,464. Grand total $126,337. Noted Jan. 7.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., storm sewer in 26th St. between North Menomonee Canal and Grand Ave., Sect. 1, and in 26th St. between Grand Ave. and Prairie St., Sect. 2, to Wenzel & Henoch Constr. Co., 498 27th St. $322,198 and $290,632 respectively; and in 26th St. between Prairie and Cherry Sts., etc., Sect. 3, to Hoag & Rollins Co., 719 West Liberty St., Louisville, Ky., $286,827. Grand total $899,657. Noted Jan. 7.

Tex., Kingsville — See "Streets and Roads."

Calif., Belmont—Belmont Sanitary Dist., 64,180 lin.ft 6- to 21-in. vitr. sewers in various streets, to C. E. Prentiss, 1734 Francisco St., Berkeley, $105,705. Noted Dec. 31.

Calif., Long Beach—Sewer in Esther St. (Pump Dist. 8), 53,155 ft. 8 in. pipe and 16,777 ft. cement pipe, etc., to R. N. Nikcevich, 208 Roycroft Ave., $161,229. Noted Jan. 7.

Calif., Los Angeles — Constructing 8,242 ft. 2 ft. semi-elliptical, brick-concrete sewer in East Branch of Sect. 37, North Outfall Sewer Project, to C. E. Green, Western Mutual Life Bldg., $28,849. City furnishes materials.

Calif., Watsonville—City Council, 14,350 ft. 6- to 10-in. vitr. clay sewers in various streets, also rein.-con. pipe outfall, screening pumping plant, etc., to Butte Electrical Equipment Co., 530 Folsom St., San Francisco, $150,286.

Waste Disposal

PROPOSED WORK

Ala., Mobile—Election Jan. 25, $85,000 bonds, incinerator.

Bridges

PROPOSED WORK

North Carolina—See "Streets and Roads."

N. C., Washington — State Hy. Comn., Raleigh, plans rein.-con. and steel bridge over Tar River on Project 1040, here. $100,000. C. M. Upham, highway engr.

See proposal advertisements on page 116, Advertising Section.

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Bridges (Continued)

Ga., Atlanta—Plans election in March or April $1,000,000 bonds, constructing Central Ave. and Pryor St. viaduct. W. Sims, mayor.

Tennessee and Arkansas — Tennessee Dept. Highways & Pub. Wks., Nashville, C. N. Glass, acting comr., Arkansas State Hy. Dept., Little Rock, R. C. Limerick, highway engr., and City of Memphis, Tenn., H. Paine, mayor, signed agreement to construct new Harahan Bridge replacing present structure over Mississippi River between Memphis, Tenn. and Arkansas, Federal Aid Project. $1,000,000. Noted Apr. 24, 1924.

Tenn., Madisonville — Monroe Co. voted $100,000 bonds, toll bridge at Niles Ferry.

Ill., Peoria—See "Streets and Roads."

Missouri — State Hy. Dept., Jefferson City, making plans one 40 ft. rein.-con. deck girder span, etc. over Marcus Creek, Audrain Co.; three 20 ft. rein.-con. slab spans, etc. over Castor River overflow and two 140 ft. steel truss spans, etc. over Castor River and Castor River overflow, both in Bollinger Co.; two 12 ft., two 18 ft. and three 16 ft., rein.-con. slab spans, etc. over creek, three 24 ft. rein.-con. slab spans, etc. over Homing Creek, three 24 ft. rein.-con. slab spans, etc. over Grindstone Creek, one 40 ft. and two 20 ft. rein.-con. slab spans, etc. over Little Cedar Creek, one 45 ft. and seven 24 ft. rein.-con. slab spans, etc. over Cedar Creek, one 45 ft. and five 20 ft. rein.-con. slab spans, etc. over Hinkson Creek, all foregoing in Boone Co.; one 86 ft. steel truss span, etc. over creek, Buchanan Co.; four 10 ft. and three 16 ft. rein.-con. slab spans, etc. over stream, three 80 ft. steel truss, one 20 ft. and two 35 ft. I-beam spans, etc. over Auxvasse River, all in Callaway Co.; one 20 ft. rein.-con. slab span, etc. over West Dog Creek, Davies Co.; one 30 ft. I-beam span, etc. over railroad tracks, De Kalb Co.; two 45 ft. rein.-con. deck girder spans, etc. over Wild Cat Creek, Douglas Co.; three 20 ft. rein.-con. slab spans, etc. over McDougal Branch, Newton Co.; two 10 ft. rein.-con. slab spans, etc. over stream, two 30 and one 40 ft. rein.-con. deck girder spans, etc. over Panther Creek, both in St. Clair Co.; also two 80 ft. steel truss and two 40 ft. rein.-con. girder spans, etc. over Clear Creek, Vernon Co. B. H. Piepmeier, ch. engr.

Tex., Austin—See "Streets and Roads."

Tex., Seymour—See "Streets and Roads."

Oklahoma—State Hy. Dept., Oklahoma City, making surveys and plans 1 span 80 ft. truss bridge across Sallisaw Creek at Vian, $30,000; and 1 span 110 ft. truss bridge across Illinois River at Gore, $45,000, both Sequoyah Co. J. M. Page, highway engr.

Okla., Purcell — State Hy. Dept., Oklahoma City, made plans bridge across South Canadian River, here. $300,000. J. M. Page, highway engr.

Nev., Reno—Voted $70,000 bonds, bridge over Truckee River on Center St. Total $140,000. H. Chism, city engr. Noted Oct. 29.

Wash., Chehalis — See "Railways under Washington."

Calif., Hamilton City — Plans election $40,000 bonds, bridge over Grand Central Canal, on Chico-Orland Highway, and rebuilding St. John Bridge, for Hamilton Blvd. Dist.

Calif., Oakland—Alameda Co. plans reconstructing steel bridge, on Webster St. $200,000. G. A. Posey, Oakland, co. surv.

Que., Quebec — Provincial Government made plans two 85 ft. span concrete deck bridge over St. Charles River. $35,000. E. I. Vallee, Quebec, engr.

Ont., Latchford—Northern Development Branch, Province of Ontario, Parliament Bldgs., Toronto, plans 250-300 ft. steel bridge over Montreal River, here. $30,000-$50,000. C. H. Fullerton, Parliament Bldgs., Toronto, engr.

Ont., London — W. P. Near, city engr., takes bids about Feb. 1, 220 ft., concrete and steel bridge, Ridout St. for City Council.. $75,000. Noted June 25.

BIDS DESIRED

New Jersey — Feb. 3, by Monmouth Co. (Freehold) reconstructing bridge H1-45, on road from Belmar to Squankum, in Howell Twp. G. K. Allen, Jr., 60 Broad St., Red Bank, engr.; adv. E. N.-R. Jan. 21.

Pennsylvania — Feb. 8, by Beaver Co. (Beaver), constructing 4 river piers for bridge across Ohio River between Ambridge and Woodlawn. T. J. Wilkerson, Federal Title & Trust Bldg., Beaver Falls, consult. engr.

Georgia — Jan. 29, by State Hy. Comn., East Point, **(F. A. P. means Federal Aid Project, and S. A. P. means State Aid Project)**, 4 bridges on Waynesboro-Swainsboro Rd., F. A. P. 387-B, Burke Co., 106,845 lb. reinforcing, 1,696 ft. concrete piling, etc.; 3 bridges on Brunswick-Jacksonville Rd., S. A. P. 432-S, Camden Co., 3,050 ft. untreated and 75,600 ft. treated timber, etc.; bridge over Savannah River, between Elberton, Ga., and Calhoun Falls, S. C., F. A. P. 447, Elberton Co., Ga., and Abbeville Co., S. C., 765,000 lb. reinforcing, etc.; concrete culverts on Carnesville-Commerce Rd., F. A. P. 352-B, Banks Co. W. R. Neel, highway comr.

Fla., Key West — Mar. 1, by Comrs. Monroe Co., bridges connecting present termini of Over Sea Highway. D. Z. Filer, clk.; adv. E. N.-R. Jan. 21.

Alabama—Feb. 10, by State Hy. Comn., Montgomery, superstructure for bridge across Coosa River near Leesburg, S-41-A, Cherokee Co.; concrete and steel bridges on road between Seale and Guard, Russell Co., and on Federal Aid Project 150, on road from Tuscaloosa and Eutaw, Tuscaloosa Co. W. A. McCalla, highway engr.

Ala., Mobile—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Louisiana—Feb. 16, by State Hy. Comn., Baton Rouge, 139 ft. creosoted timber bridge, State Aid Project 375-B, East Feliciana Parish; also reconstructing 5 bridges on Columbia-Royville Highway, State Project 18A, Caldwell Parish. W. B. Robert, Reymond Bldg., Baton Rouge, Highway engr.

Minnesota—See "Streets and Roads."

Oklahoma—Feb. 2, by State Hy. Dept., Oklahoma City, 1 span 120 ft. steel truss bridge on concrete piers at Vera, Washington Co., 46.81 lb. steel truss, 31.4 tons reinforcing, 3,700 ft. wooden piling, etc., $31,000, 3 span 60 ft. rein.-con. trestle bridge at Mulhall, Logan Co., 19.71 lb. I-beam, 9.36 tons reinforcing, 1,900 ft. wooden piling, etc., $25,000, 1 span 96 ft. steel truss bridge on concrete piers at Haskell, Muskogee Co., 39.74 tons steel truss, 11.81 tons reinforcing, 3,860 ft. wooden piling, etc., $27,000; widening trusses on present piers 3 span 180 ft. bridge at Dickson, Oklahoma Co., 38.4 tons I- beam, 14.8 tons reinforcing, 770 ft. wooden piling, etc., $25,000. J. M. Page, highway engr.

Oklahoma—Feb. 2, by State Hy. Dept., Oklahoma City, 4 span 280 ft. concrete steel truss bridge on concrete piers, at Banner, Canadian Co., 197.4 tons steel truss, 46.4 tons reinforcing, 3,890 ft. wooden piling, etc., $68,000; 2 span 80 ft. bridge at Sapulpa, Creek Co., 23 tons I-beam, 16.4 tons reinforcing, etc., $28,300; 22 span 240 ft. pile trestle bridge at Shattuck, Ellis Co., 131,100 ft. timber, 6,440 ft. wooden piling, 17,019 ft. creosoted timber, etc., $35,000; 2 span 80 ft. concrete and rein.-con. trestle bridge at Nash, Grant Co., 10.6 tons I-beam, 5.97 tons reinforcing etc., $27,500; 18 span 280 ft. pile trestle bridge at Edith, Harper Co., 6,850 cu.yd. embankment, 3,854 ft. wooden piling, 10,650 ft. creosoted timber, etc., $30,000; 6 span 610 ft. steel truss bridge on concrete piers at Dover, Kingfisher Co., 446.2 tons steel truss, 77.81 tons reinforcing, etc., $100,000; 2 span 146 ft. steel truss bridge at Turney Falls, 180.5 tons steel truss, 16.45 tons reinforcing $48,800, 2 span 140 ft. steel truss bridge at Turner Falls, 180.5 tons steel truss, 17.11 tons reinforcing, etc. $45,000, and two span 130 ft. rein.-con. bridge at Davis, 20.75 tons I-beam, 11.76 tons reinforcing, etc. $31,000, all Murray Co.; 4 span 118 ft. concrete and rein.-con. trestle bridge at Catale, 59.5 tons I-beam, 9.4 tons reinforcing, etc. $31,000, 5 span 132 ft. rein.-con. trestle bridge at Chelsea, 7.09 tons I-beam, 4.28 tons reinforcing, etc. $36,000, and 2 span concrete trestle bridge at Talala, 33.63 tons structural steel, 13.8 tons reinforcing, etc. $38,000, all Rogers Co.; 5 span 140 ft. rein.-con. trestle bridge at Loco, 47.81 tons I-beam, 35.3 tons reinforcing, 1.005 cu.yd. concrete, 5,600 ft. wooden piling, etc. $30,000, 124 ft. 2 span rein.-con. trestle bridge at Comanche, 5.11 tons I-beam, 5 tons reinforcing. etc. $41,500, 1 span 60 ft. rein.-con. trestle bridge at Comanche, 23 tons I-beam, 6.65 tons reinforcing, etc. $25,000, 1 span 64 ft. bridge at Comanche, 23 tons I-beam, 7.5 tons reinforcing, 1,650 ft. wooden piling, etc. $25,000, all in Stephens Co.; 22 span 360 ft. pile trestle bridge at Waynoka, Woods Co., 112,800 ft. timber, 8,500 cu.yd. embankment, 7,392 ft. wooden piling, 28,050 ft. creosoted timber, etc., $45,000. J. M. Page, highway engr.

Ore., Kernville—State Hy. Dept., Salem, taking bids bridge over Siletz River, here, Lincoln Co., 19,000 ft. piling, 950 cu.yd. concrete, 17,000 lb. metal reinforcement, 340,000 lb. structural steel, etc. R. Klein, Salem, engr.

BIDS RECEIVED

Tex., Austin—See "Streets and Roads."

Tex., Orange—Orange Co., Jan. 8, 2,717 ft. creosoted pile trestle bridge, 18 ft. across Old River Cove, from A. C. McFarlane, Orange, $49,315. Engrs. est. $68,500.

CONTRACTS AWARDED

North Carolina—State Hy. Dept., Raleigh, to Sanford & Brooks, West Shore Terminal Bldg., Charlestown, S. C., bridge over Lower Chowan River, Project 109-B, Bertie-Chowan Counties, 1,502 cu.yd. Class "A" concrete $28.50 per cu.yd., 1,018,260 lb. reinforcing $0.05, 1,682 lin.ft. untreated timber piles $0.80, 6,200 lin.ft. creosoted timber piles $0.65, 207,500 lb. structural steel $0.078, 15,220 sq.yd. asphaltic wearing surface $2.10, 52,035 lin.ft. precast concrete piles $1.85, etc. total $432,423; to J. S. Bowers, Whiteville, bridges on Project 348, Cumberland Co., 571 cu.yd. Class "A" concrete $30, 83,870 lb. reinforcing $0.06, 3,200 lin.ft. untreated timber piles $1.25, 413 sq.yd. concrete wearing surface $2.50, etc., total $28,075; to Kiker & Yount, Reidsville bridges on Project 605, Alexander Co., 1,210 cu.yd. Class "A" concrete $25.50, 165,960 lb. reinforcing $0.05, etc., total $39,153. Grand total $499,651. Noted Dec. 24.

Kan., Oswego — Labette Co., Neosho River Bridge, two 120 ft. and one 140 ft. through arch spans, and Hickory Creek Bridge, one 120 ft. through arch span, both on Parsons-Pittsburg Rd., Federal Aid Project 214-C, to Sharp Bros. Contg. Co., Eldorado, $95,522.

Kan., Wellington—Sumner Co. bridge on 11.957 mi. Federal Aid Project 323 A and B, to Wilson Constr. Co., Warrensburg, Mo., $64,022; culverts to Schultz Constr. Co., Parsons, Kan., $20,663.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, 3 span, 135 ft. rein.-con. bridge over River Des Peres, at Southwest Ave., to J. J. Dunnegan, Manhattan and Picadilly Aves., $29,671. Engrs. est. $33,800. Noted Jan. 14.

Tex., Breckenridge — See "Streets and Roads."

Tex., Crockett—See "Streets and Roads."

Tex., Huntsville — See "Streets and Roads."

Dams

PROPOSED WORK

Okla., Lugert — See "Waterworks under Kingfisher."

Que., Hull—See "Buildings—Industrial."

BIDS DESIRED

New Zealand, Wellington—Mar. 23, by Secretary Pub. Wks., Supplies & Tenders Bd., automatic dam Sect. 182, complete dam and tunnel gates, etc., Sect. 181, at Mangahao Power Development.

CONTRACTS AWARDED

Md., Conowingo—See "Buildings—Industrial."

Ark., Fayetteville—See "Waterworks."

Railways

PROPOSED WORK

Illinois—Jacksonville—Havana R.R. Co., Jacksonville, granted permission by Inter-State Commerce Comn., rehabilitating 51 mi. of former Chicago, Pennsylvania & St. Louis R.R. line between Jacksonville and Havana. $550,000. A. Stevenson, 123 West Madison St., Chicago, pres.

Illinois — Wabash R.R., Exch. Bldg., St. Louis, Mo., plans 90,000 cu.yd. crushed rock ballast on Decatur Division, incl. 21 mi. from Poag to Worden, 27 mi. from Sibley to Mansfield, and 25 mi. from Ryan to Toledo. $100,000. R. H. Howard, ch. engr.

Minnesota—Minnesota Western R.R. Co., E. D. Luce, vice-pres., 2823 6th Ave., N., Minneapolis, soon lets contract 57 mi. railroad extension between Lake Lillian and Dawson. $1,500,000. J. Olson, c/o owner, engr. Noted Oct. 29.

Wyoming—Union Pacific R.R. Co., 1416 Dodge St., Omaha, Neb., plans approximately 4 mi. extension in Goshen Co., here. $182,028. R. L. Huntley, ch. engr.

Missouri—St. Louis-San Francisco R.R. Co., Frisco Bldg., St. Louis, making preliminary plans 174 mi. 100 lb. rails to replace 90 lb. rail incl. double tracks between Tower Grove and Pacific, 81.2 mi. single track between Pacific and St. Clair, 36 mi. single track between Jasper and Pratt City, Ala., and 57 mi. double track between Paola, Kan., and Kansas City, Mo.; rein.-con. and timber viaducts, grade crossing signals, etc., $157,000; train control devices between Afton, Okla., and Monett,

See proposal advertisements on page 116, Advertising Section.

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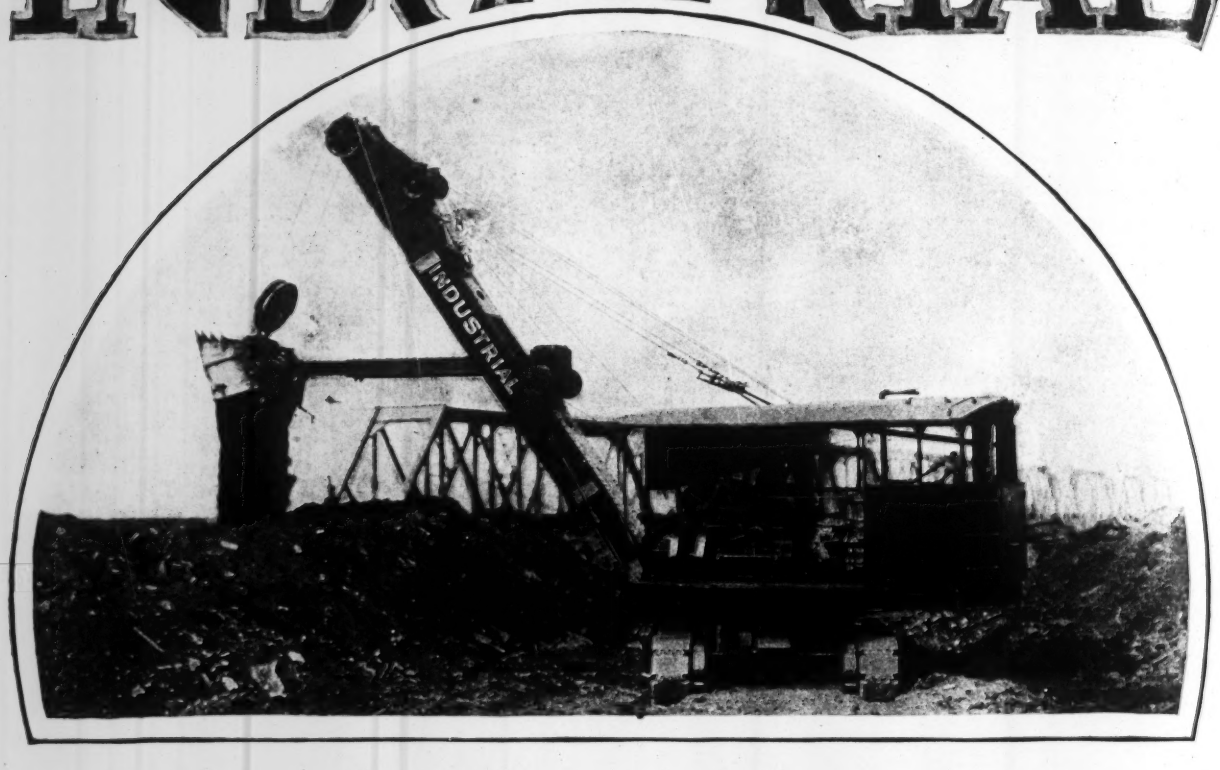

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Railways (Continued)

Mo., and interlocking towers at various points $359,000; yard sidings, passing tracks, etc., $1,363,000; shops, $210,000; freight and passenger depots, $592,000; water stations, $215,000; change in grade and track alignment between St. Louis and Springfield, $190,000; new rail and fastenings, $2,405,000; 25 locomotives, 4,000 box automovile and gondola cars, etc., $10,500,000; repairing and improving equipment, $1,000,000; new equipment in own shops, $1,650,000. F. G. Jonah, Frisco Bldg., St. Louis, ch. engr.

Missouri — Wabash R.R. Co., Ry. Exch. Bldg., St. Louis, making preliminary plans new rail, track ballasting, yard extensions, etc. on various parts system, $5,000,000; purchasing 2,000 automobile and 20 baggage cars, 25 switch engines, etc., $5,500,000. R. H. Howard, ch. engr.

Missouri—St. Louis-Southwestern R.R. Co., W. S. Hanley, ch. engr., Tyler, Tex., making preliminary plans purchasing new rail, $1,300,000; track ballasting, $300,000; shops and engine houses, $250,000; shop machinery and tools $300,000; new yard tracks and improvements, $250,000; bridges, trestle and culverts, $450,000; tie plates and rail anchors, $350,000, also new passenger equipment, $500,000; all above in St. Louis.

Washington—H. E. Brown, pres. Cowlitz, Chehalis & Cascade Ry. Co., Chehalis, soon lets contract 8 mi. railroad extension, and 125 ft. bridge over Cowlitz River, at Chehalis. R. W. Sweet, ch. engr. Noted July

BIDS DESIRED

Missouri—See "Contracts Awarded."

CONTRACTS AWARDED

Missouri—Missouri Pacific R.R. Co., Railway Exch. Bldg., St. Louis, will grade and lay track, etc., in Sedalia, by day labor; also 1 story, 65 x 120 ft., and 40 x 550 ft. timber reclamation plant, in Sedalia, to J. C. Duncan, 811 Central Natl. Bank Bldg., St. Louis, approximately $15,000. Engrs. total est. $125,000. Noted Nov. 12 under "Buildings—Industrial."

Excavation, Drainage, Irrigation, Levees River and Harbor

PROPOSED WORK

N. Y., Buffalo—See "Unclassified."

Mich., Detroit — Dept. Pub. Wks., plans dredging Fox Creek and constructing pumping station to relieve Jefferson Ave., $343,000; ditches in unsewered area West Side, $125,000; and dredging River Rouge Channel, $350,000. P. A. Fellows, city engr.

Calif., Redondo Beach — Plans election $300,000 bonds, breakwater.

Calif., San Francisco — Made plans core boring along and near line of Hetch Hetchy Aqueduct, Coast Range Division. $25,000. M. M. O'Shaughnessy, city engr.

Que., Cap-de-la Madeleine — Dept. Pub. Wks., Ottawa, Ont., making plans dredging eastern branch River St. Maurice, here. $40,000. B. Grandmint, Three Rivers and K. M. Cameron, Ottawa, Ont., engrs.

BIDS DESIRED

Ala., Mobile—Feb. 18, by Mobile Bay Bridge Co., Meaher Bldg., 49,000 ft. dredged embankment for bridge over Mobile Bay. Harrington, Howard & Ash, Kansas City, New York and Mobile, consult. engrs.; adv. E. N.-R. Jan. 21. Noted Jan. 14 under "Bridges."

Calif., Carmichael — Carmichael Irrigation Dist. taking bids 6 mi. riveted steel pipe line, 14- to 16-in. diam. and three 75 KVA transformers. $30,000 available. A. Givan, City Hall, Sacramento, engr. Noted Nov. 12.

BIDS RECEIVED

N. Y., Buffalo—Dept. Pub. Wks., Municipal Bldg., Jan. 12, completing Sect. 4, Buffalo River and Cazenovia Creek Impvt., from V. Schiavi, Tupper Lake, $144,500, extra rip rap $4 per sq.yd. Noted Dec. 24.

CONTRACTS AWARDED

Md., Conowingo—See "Buildings—Industrial."

La., Thibodaux—Comrs. Lafourche-Terrebonne D. D., Court House, gravity drainage system, 1,000,000 cu.yd. excav., etc., to Huth Constr. Co., Franklin, at $10.74 per cu.yd. Noted Dec. 17.

Streets and Roads

PROPOSED WORK

Mass., Framingham — Plans concrete paving between tracks on Union Ave. and rebuilding Concord St. from Union Ave. to Clark St. $35,000. Address City Engineer.

N. Y., Albany—City soon takes bids repaving 2.5 mi. Bway. and North Pearl Sts. $210,000. J. G. Brennan, city engr.

New Jersey—Monmouth Co. (Freehold) plans concrete paving 2½ mi. road from Freehold to Manasquan. G. K. Allen, 60 Broad St., Red Bank, engr.

Pennsylvania — Allegheny Co. (Pittsburgh), making plans concrete paving approximately 2 mi. McKeesport-East Pittsburgh Blvd., 22 ft. $347,000. County Bureau of Engineering, 517 Smithfield St., Pittsburgh, engrs.

Pa., Pittsburgh — Making plans paving Perchment St. $34,000, Addison St. between Center Ave. and Reed St. $46,000, and Elmore St. between Reed St. and Center Ave. $36,000. Bureau of Engineering, Dept. Pub. Wks., engrs.

Pa., Pittsburgh — Making plans paving Sommers St. $32,000. City Bureau of Engineering, Dept. Pub. Wks., engrs.

Pa., Uniontown—Fayette Co. soon takes bids constructing Flatrock and other roads. $500,000. E. L. Clemmer, Uniontown, engr. Noted May 28.

W. Va., Parkersburg — Plans election $500,000 bonds, sewers and paving various streets. J. V. Dunbar, city engr.

North Carolina — State Hy. Comn., Raleigh, plans clearing and grading 7 mi. Highway Project 4440, from Chatham Co. line to Project 450. $45,000. C. M. Upham, highway engr.

North Carolina — State Hy. Comn., Raleigh, plans clearing grubbing, bridging and grading 7 mi. Project 840, Henderson Co. $50,000. C. M. Upham, Raleigh, highway engr.

North Carolina — Comrs. Granville Co., (Oxford) plans paving 2.7 mi. road from Hester to point near Creedmore. $90,000.

N. C., Bryson City—Plans to issue $85,000 bonds, paving various streets. W. T. Conley, city clk.

N. C., Tryon—Blue Ridge Realty Co., c/o A. A. Merrick, ch. engr., Tryon, plans bituminous on broken stone or gravel paving 6 mi. roads in connection with Ryxhaven development, near here. $125,000.

Ga., Rome—See "Waterworks."

Ga., Tifton—Election Feb. 11 (extended date), $70,000 bonds, paving various streets. Noted Nov. 26.

La., Monroe — Ouachita Parish election Feb. 2, $1,750,000 bonds, improving 97 mi. highway.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, plans probably concrete paving 9.5 mi. Cleveland-Hamilton Co. line Rd. Bradley Co. C. N. Bass, acting comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 10 mi. Greenville-Bulls Gap Rd., Greene Co., and 10 mi. Dandridge-Sevier Co. line Rd., Jefferson Co. C. N. Bass, acting comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, plans improving 10 mi. Cookeville-Monterey Rd., $190,000 and 15 mi. Cookeville-Smith Co. line Rd., $240,000, both Putman Co. County Court, Putman Co. and Dept. Highways, Nashville, engrs.

Tenn., Blountville — Sullivan Co. and State Dept. Highways & Pub. Wks., Nashville, appropriated $20,000 each, improving Bluff City-Washington Co. line Rd. Work will be done under direction and supervision of State Hy. Dept. C. N. Bass, Nashville, acting comr.

Tenn., Clinton — Anderson Co. plans improving 4 mi. Briceville-Coal Creek Rd. To exceed $25,000.

Tenn., Dover — Stewart Co. plans constructing approximately 15 mi. Dover-Big Sandy Rd. To exceed $25,000.

Tenn., Erwin — Unicoi Co. appropriated $150,000, improving various highways.

Tenn., Greeneville — Green Co. appropriated $170,000, improving Andrew Johnson Highway.

Tenn., Kingston—Roane Co. voted appropriation $70,000, improving 11.5 mi. Kingston-Loudon Co. line Rd. Work will be done under direction of Tennessee Dept. Highways & Pub. Wks. C. N. Bass, acting comr.

Tenn., Knoxville — Plans curbing, grading, sidewalks 2 in. sheet asphalt paving 1,400 sq.yd., 6 in. concrete paving 19,000 sq.yd., and 5 in. asphaltic concrete paving 41,200 sq.yd. various streets. $378,000. W. W. Maynott, Knoxville, engr Noted Nov. 5.

Tenn., Lawrenceburg—Lawrence Co. and State Dept. Highways & Pub. Wks., Nashville, appropriated $21,000 each, bituminous surfacing Lawrenceburg - Columbia Rd. Work will be done under direction and supervision of State Hy. Dept., C. N. Bass, Nashville, acting comr.

Tenn., Linden—Perry Co. election May 8, $30,000 bonds, improving various roads.

Tenn., Maryville—Blount Co. appropriated $100,000, improving Maryville-North Carolina State Line Rd. via Deals Gap.

Tenn., Sevierville—Comrs. Sevier Co. appropriated $100,000, highway connecting East Tennessee with North Carolina through Indian Gap.

Ohio—Dept. Highways & Pub. Wks., Columbus, plans grading, paving, etc., 1,350 to 1,450 mi. highways during 1926. F. G. Schlesinger, dir.

O., Columbus—Making plans grading and concrete or bituminous macadam paving 1,375 ft. McKinley Ave. from Central Ave. to Darby St., 24 ft. $27,000. R. H. Simpson, City Hall, engr.

O., Fairview—Takes bids in spring sidewalks on Donald, Belvidere, Stanford, Elmore, Eastlook, Northwood, Woodstock, and Westwood Aves. To exceed $25,000. E. H. Arnold, Town Hall, engr.

O., New Philadelphia — Tuscarawas Co. plans waterbound macadam or bituminous macadam paving 2.8 mi. Divisions 3 and 4, New Port-Gilmore Rd., 18 ft. $100,000. G. Fiedler, Dover, engr.

O., St. Clairsville — Belmont Co. soon takes bids tar, amiesite and brick surfacing 11 projects. $147,280. E. M. Shirk, St. Clairsville, engr.

O., Upper Sandusky—Making plans grading and paving 653 ft. North Sandusky St., 26 ft., brick $27,000, concrete $24,500. City Engineer.

Mich., Detroit — Dept. Parks & Boulevards, 600 Marquette Bldg., making revised plans, grading, curbing, concrete and tile paving around Scott Memorial Fountain. $50,000. Former bids rejected. Cass Gilbert, 244 Madison Ave., New York City, N. Y., archt. Noted Oct. 29.

Ill., Galesburg—Knox Co. soon takes bids 600,000 gal. road oil on various roads. $40,000. H. M. Roy, Court House, supt. highways.

Ill., Kewanee—Henry Co. plans grading, curbing and vibrolithic concrete, rein.-con., brick or Warrenite-bitulithic paving 5 blocks Park and Willow Sts. $30,000. J. G. Palmer, City Hall, engr.

Ill., Metropolis — Making preliminary plans grading, curbing and concrete, brick, or asphalt paving various streets. $400,000.

Ill., Monmouth—Plans removing old pavement and grading, curbing and vitr. brick on concrete paving 9,791 sq.yd. South Main St., Paving Dist. 77. $52,077. H. Tolberg, Court House, engr.

Ill., Monmouth—Warren Co. takes bids in February, spreading 600,000 gal. road oil on various roads. $40,000. C. L. McClanahan, Court House, engr.

Ill., Peoria — Peoria Co. takes bids in spring, grading, bridging and paving 2 mi. Mount Holly Rd., 18 ft. $60,000. W. E. Emory, Court House, engr.

Ill., Peoria — Peoria Co. plans grading, curbing and brick or concrete paving 3 blocks West Nebraska St. from North to Elizabeth Sts., and 6 blocks West Nebraska St. from Elizabeth to University Sts., 20-70 ft. $60,000. W. E. Backes, City Hall, engr.

Ia., West Liberty—Made plans paving approximately 55,000 sq.yd. various streets. To exceed $132,427.

Kan., Newton—Making preliminary plans brick on concrete paving various streets. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs.

Wyoming — State Hy. Dept., Cheyenne, plans improving 13.75 mi. Federal Aid Project 190, Deepwater Co., $180,000; and 47.7 mi. Federal Aid Project 191, Sweetwater Co., $560,000.

Missouri — State Hy. Dept., Jefferson City, making plans grading 60.7 mi. roads in Andrew Daviess, De Kalb, Franklin, Howard, Pettis, Pike and Ralls Counties; 30 ft. grading 55.5 mi. roads in Gentry, Lafayette, Linn, Newton, Saline, Vernon and Wayne Counties; 18 ft. gravel surfacing 88.15 mi. roads in Audrain, Bates, Bollinger, Caldwell, Howard, Howell, Greene, St. Clair, Stone and Wayne Counties; 9 ft. concrete paving 19.2 mi. roads in Daviess and De Kalb Counties; 18 ft. concrete paving 40 mi. roads in Andrew, Franklin, Pettis, Pike and Ralls Counties; 18 ft. rock asphalt and 18 ft. amiesite paving 1.5 mi. roads in Howard Co. B. H. Piepmeier, ch. engr.

Mo., Webb City—Election about Mar. 10, $25,000 or more bonds paving various streets. Engineer not selected.

Tex., Abilene—Taylor Co. making plans grading and bridging 6.63 mi. State Highway 1-A, $28,000; also 11.58 mi. State Highway 1 from Sta. 984-00 to Station

See proposal advertisements on page 116, Advertising Section.

Streets and Roads (Continued)

1595-70, $25,000. L. C. McCanlies, Abilene, engr.

Tex., Austin — Travis Co., making plans grading, bridging and bituminous paving 6.7 mi. Del Valle-Garfield Rd. 18 ft., $36,-735; also gravel, crushed rock and two course inverted penetration bituminous surfacing 13.85 mi. State Highway 29, 16 ft., $66,500. O. Leonard, Austin, co. engr.

Tex., Clairemont—Kent Co. made plans grading, bridging and bituminous macadam paving 17.378 mi. State Highway 83 from Clairemont to Garza Co. line, 18 ft. $325,000. L. M. Ferlet, Clairemont, co. engr.

Tex., Coleman — Coleman Co. making plans grading, hard paving, etc., 1.04 mi. Highway 23, 20 ft. $28,000. Address C. L. South, c/o Courthouse, judge.

Tex., Edinburg—Hidalgo Co. making plans graveling 55 mi. and hardsurfacing 159 mi. Monte Cristo, Weslaco, West Edinburg and East Edinburg Rds., South Mission Rd. to point near Madero, Jackson Rd. from intersection with Highway 12, Sharyland Blvd., etc., 16-18 ft. $3,500,000. P. S. Devine, Pharr, engr. Noted Jan. 7.

Tex., Henrietta—Clay Co. making plans concrete paving 7.14 mi. State Highway 5, Federal Aid Project 448-B, Unit 2, 18 ft. $260,000. D. M. Puckett, Henrietta, co. engr.

Tex., Port Arthur—Election soon $1,000,-000 bonds permanent paving various streets. W. O. Bower, City Hall, engr.

Tex., Seymour—Baylor Co. making plans grading and bridging 20.58 mi. State Highway 24, Federal Aid Project 454-A. $120,000. J. G. Rollins, Seymour, engr.

Tex., Sweetwater—Nolan Co. soon takes bids double bituminous surface treatment on sledged stone, caliche and macadam paving 15.22 mi. State Highway 1, Federal Aid Project 444-B, Unit 2. $348,000. J. A. Focht, Sweetwater, engr. Noted Nov. 12.

Tex., Tulia — Voted $65,000 bonds permanent paving various streets. Devlin Eng. Co., 119 Central Bldg., Amarillo, engrs.

Oklahoma—State Hy. Dept., Oklahoma City, making surveys grading, etc. 18 mi. Albert Pike Highway, 30 ft. $65,000. J. M. Page, highway engr.

Okla., Dover—Making preliminary plans grading, curbing, and concrete paving 9,000 sq.yd. Main St. $27,000. Engineer's name withheld.

Okla., Frederick — Voted $52,400 bonds vertical fibre brick paving 13,100 sq.yd. 7th and 9th Sts. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Heavener — Making preliminary plans grading and concrete paving 11,300 sq.yd. Main St. and Ave. C. $35,000. M. A. Stewart, mayor. Engineer not announced.

Okla., Hennessey—Plans grading, curbing and concrete paving 19,800 sq.yd. Main St. $68,350. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Hobart—Making preliminary plans grading and concrete paving 9,740 sq.yd. South Main St., 40-30 ft. $29,250. V. V. Long, 1300 Colcord Bldg., Oklahoma City, engr.

Okla., Idabell—Making preliminary plans vertical fibre brick resurfacing 16,600 sq.yd. Main St. and Central Ave. $35,000. W. O. Campbell, city clk. Engineers name withheld.

Okla., Okarche — Making preliminary plans grading and concrete paving 9,400 sq.yd. Main St. $30,000. H. O'Reilly, mayor. Engineer not announced.

Idaho—State Hy. Dept., Boise, plans improving 2.739 mi. Federal Aid Project 79, Bannock Co. $123,000.

Oregon — State Hy. Dept., Salem, plans improving 11 mi. Federal Aid Project 126, Klamath Co. $87,000.

California—State Hy. Dept., Sacramento, plans constructing road to connect Maricopa, Kern Co. and Carpenteria, Santa Barbara Co. $2,000,000. Engineer not selected.

Calif., Berkeley — Plans paving 6th St. between University Ave. and Dwight Way, $50,000 or more; Sacramento St. between Dwight Way and south city limits, $75,000 or more; Alcatraz Ave. between Sacramento and Adeline Sts., $27,500; Euclid Ave. between Eunice and Regal Rd., $75,000 or more; Spruce St. between Cedar and Arch Sts., $70,000 or more; 7th St. between Dwight Way and Folger St., $80,000 or more; and portions of Berkeley Way, Walnut St., etc., to exceed $75,000. Noted Nov. 19.

Calif., Hermosa Beach — Making plans paving, etc. Camino Real from Pier Ave. to south city line. To exceed $75,000. Los Angeles Co. appropriates $30,000 toward cost. J. Rapier, city engr.

Calif., Oakland — Making plans paving, etc., Peralta St. from 7th St. to Emeryville city limits. $250,000. Alameda Co. appropriates $60,000 toward cost. W. W. Harmon, city engr.

Calif., Oceanside — Made preliminary plans paving, etc. various streets. $125,000 or more.

Calif., San Diego—Made plans improving 17th St. between F St. and Imperial Ave., 1,773 sq.ft. concrete sidewalk, 412 lin.ft. concrete curbing, 109,190 sq.ft. 1½ in. on 2½ in. asphaltic concrete paving, etc. F. A. Rhodes, city engr.

Calif., Santa Cruz—Made plans grading, concrete curbing, cement sidewalks, 5 in. concrete paving, etc. 124,426 sq.ft. Market St., Berkeley Way, etc. To exceed $25,000. J. K. James, city engr.

Ontario — Dept. Provincial Highways, Parliament Bldgs., Toronto, plans macadam, asphalt and concrete paving 131 mi. Kingston - Ottawa Highway. $2,000,000. R. M. Smith, 110 University Ave., Toronto, engr.

Ontario—Dept. Pub. Highways, Parliament Bldgs., Toronto, plans graveling and macadam paving 140 mi. road from Washago to North Bay. $1,000,000. R. M. Smith, 110 University Ave., Toronto engr.

Ont., Guelph — City Council plans concrete paving Yarmouth Rd. $35,000. H. S. Nicklin, City Hall, engr.

Ont., Toronto — City Council soon takes bids asphalt paving Close Ave., $8,816; also opening and grading lane between Millicent St. and Lappen Ave., $21,500. R. C. Harris, City Hall, engr.

Ont., Toronto — East York Twp. plans curbing, guttering and asphalt paving approximately 6,000 sq.yd. Danforth Ave. $25,000. G. R. Jack, 443 Sammon Ave., engr.

Ont., Toronto—Scarboro Twp. plans grading, sidewalks and permanent paving 1 mi. new road on Victoria Park Ave. from Denton to Adrien Aves. $150,000. C. E. Fraser, 1361 Kingston Rd., engr.

Que., Quebec — Plans concrete, asphalt and macadam paving various streets during 1926. $150,000. F. C. Baillarge, Quebec, engr.

Que., Quebec—Plans extending 3,000 ft. Cote d'Albraham St. $125,000. F. C. Baillarge, Quebec, engr.

BIDS DESIRED

N. J., Belvidere—Feb. 10, by Bd. Freeholders Warren Co. grading, etc., 73,700 cu.yd. Yellow Frame-Blairstown Rd., in Frelinghuysen and Blairstown Twps. H. W. Vetter, Belvidere, co. engr.; adv. E. N.-R. Jan. 21.

W., Va., Harrisville — Feb. 5, by Court Ritchie Co., clearing, grading, etc. 41,400 cu.yd. Sect. B Staunton Pike, from Station 212-66 to bridge at Macfarlan.

Georgia — Jan. 29, by State Hy. Comn., East Point, grading, etc., 13.52 mi. Brunswick-Jacksonville Rd., State Aid Project 132-S, Camden Co., 5 mi. Lyons-Swainsboro Rd., Federal Aid Project 417-A, Emanuel Co., 2.4 mi. Eatonton-Gray Rd., Federal Aid Project 409-C, Putnam Co.; and clay gravel surfacing 1,876 cu.yd. Brunswick-Darien Rd., Federal Aid Project 195, Glyn and McIntosh Counties. W. R. Neel, highway comr.

Georgia—Jan. 29, by State Hy. Dept., Atlanta, clearing, grubbing and top soiling, etc., 7,744 cu.yd. Federal Aid Project 311-B, Elbert Co. W. R. Neel, East Point, engr.

Fla., Tampa — Jan. 29, Comrs. Hillsborough Co., paving, slag on rock surfacing in north Tampa Special Road and Bridge Dist. $200,000. A. B. Pimm, Court House, engr.

Alabama—Feb. 10, by State Hy. Dept., Montgomery, **(S. A. P. means State Aid Project and F. A. P. means Federal Aid Project)**, improving 10.9 mi. Tuscumbia-Decatur Rd., S.A.P. 101, Lawrence Co., 25.884 acres clearing and grubbing, 70,510 cu.yd. common and 1,000 cu.yd. solid rock excav., 6,792 yd. overhaul, 36,000 lb. reinforcing, 27,500 sq.yd. Bermuda sod, etc., 2.52 mi. Moulton-Russellville Rd., S.A.P. 125, Lawrence Co., 13.58 acres clearing and grubbing, 18,159 cu.yd. common and 100 cu.yd. solid rock excav., 5,476 yd. overhaul, 16,387 lb. reinforcing, 2,000 sq.yd. Bermuda sod, etc., 14.88 mi. Seale-Girard Rd., S.A.P. 50-B, Russell Co., 37.05 acres clearing and grubbing, 128,009 cu.yd. common and 200 cu.yd. solid rock excav., 63,347 lb. reinforcing, 45,000 sq.yd. Bermuda sod, etc., 19.41 mi. Tuscaloosa-Eutaw Rd., F.A.P. 150, Tuscaloosa and Greene Counties, 63.41 acres clearing and grubbing, 294,035 cu.yd. common and 300 cu.yd. solid rock excav., 33,819 yd. overhaul, 115,000 lb. reinforcing, 48,850 sq.yd. Bermuda sod, etc.; grading, and gravel surfacing, etc. 6,000 cu.yd. and concrete surfacing 3,444 sq.yd. in city of Camp Hill, S.A.P. 98-A, Tallapoosa Co. W. A. McCalla, highway engr.

Ala., Mobile — Feb. 8, by Mobile Bay Bridge Co., Meaher Bldg., asphaltic concrete or bitulithic on broken stone, gravel or slag surfacing on embankments for Mobile Bridge. Harrington, Howard & Ash, Kansas City, New York and Mobile, consult. engrs.; adv. E. N.-R. Jan. 21.

Louisiana—Feb. 9, by State Hy. Comn., Baton Rouge, repairing washouts 4.18 mi. Natchitoches-Leesville Highway, State Project 315 Sect. A-2, and 5.9 mi. Sect. E, same highway, Natchitoches Parish. W. E. Robert, Reymond Bldg., Baton Rouge, engr.

La., New Orleans — Mar. 23, by City Comrs., hardsurfacing 12 streets and graveling 16 streets. J. Klover, city engr.

Ind., Anderson—Feb. 15, by Comrs. Madison Co., Court House, concrete paving 1½ mi., and curbing ½ mi. Nipher Rd., 28 ft. $65,000.

Ind., Anderson—Feb. 15, by City Comrs. curbing and concrete paving ¾ mi. Noble St. from 23rd to 31st Sts., also 31st St., 30 ft. $52,800. M. H. Donney, city engr. Noted Dec. 3.

Ind., Anderson—Taking bids curbing and concrete paving 1½ mi. West 9th Ave. from Madison to Raible Aves., 30 ft. $68,000. M. H. Donney, Anderson, engr.

Ill., Blue Island—Feb. 2, by Bd. Local Impvts., V. B. Roberts, secy., grading, curbing and 7 in. concrete paving 69,452 sq.yd. various streets. V. B. Roberts, secy.; adv. E. N.-R. Jan. 21.

Ill., Elmwood—Jan. 27, by City, grading, curbing and paving, etc. Main St., 5,675 sq.yd. 6 in. concrete, 2,037 sq.yd. brick, asphalt filler on 5 in. concrete. F. M. Connolly, 428-31 Peoples Trust & Savings Bank Bldg., Galesburg, consult. engr.

Ill., Galesburg — Jan. 23, by Bd. Local Impvts., City Hall, grading, curbing, guttering and brick on concrete paving 14,606 sq.yd. Day St. from Mulberry to 4th Sts. $44,830. A. L. Richey, City Hall, engr.

Minnesota—Feb. 9, by State Hy. Dept., St. Paul, improving 20.7 mi. Moorhead-North Clay Co. line Rd., State Project 6-44, Federal Aid Project 349, 260,000 cu.yd. excav., two 30 ft. and one 20 ft. bridges, $60,000; also 23.5 mi. International Falls-Koochiching Co. line Rd., 364,240 cu.yd. excav., 60,000 cu.yd. ditching, one 75 ft. bridge and one 80 ft. special culvert, $80,-000. Eng. Dept. State Highway Dept., engrs.

Minn., Stillwater—Feb. 2, by J. F. Kilty, aud. Washington Co., improving 2.6 mi. Bayport-Hudson Bridge Rd., Job 2601, 124,000 cu.yd. excav., 3,100 cu.yd. gravel, and 2,300 cu.yd. clay surfacing, etc.

Neb., Ord—Feb. 4, by City Clerk, brick, sheet asphalt, concrete, rein.-con. or asphaltic concrete paving approximately 7,500 sq.yd. various streets in Dist. 2. H. A. Davis, 116 East 13th St., Crete, engr.

Mo., St. Louis — Feb. 16, by Bd. Pub. Serv., 208 City Hall, granite curbing and brick paving 3,510 sq.yd. East Virginia St. $22,790, 2,705 sq.yd. Scott Ave. $20,000, 1,695 sq.yd. Wilson St. $10,150; concrete paving, etc. 5,660 sq.yd. McCune Ave. $28,-200; Warrenite paving 14,410 sq.yd. Cass Ave. $36,000; asphaltic concrete paving 710 sq.yd. Dewey Ave. $4,650, 1,235 sq.yd. De Tonty St. $7,500, 1,300 sq.yd. Walnut St. $8,200; and 3,035 sq.yd. asphalt paving, etc. Walnut St. $20,000. W. W. Horner, 300 City Hall, engr.

Tex., Cleburne—Feb. 5, by C. H. Teesdale, engr., c/o City Hall, permanent paving about 8 blocks Buffalo St. from Harrell to West Chambers Sts., and College Ave. from Buffalo St. to Pendell Ave., for City. $35,000.

Tex., Liberty — Liberty Co. taking bids concrete and shell surfacing 34.54 mi. State Highway 3, Federal Aid Project 352, 16-18 ft. $450,000. C. R. Wilson, Court House, judge.

Tex., Tulia — Jan. 26, by J. H. O'Neall, mayor, grading and brick paving 46,363 sq.yd. various streets. $100,000. Devlin Eng. Co., Central Bldg., Amarillo, engrs.

Oklahoma—Feb. 2, by State Hy. Dept., Oklahoma City, grading 5 mi. Comanche-Stephens Co. line Rd., State Aid Project 252-C $30,000, and 5.7 mi. same road, Sect. D $33,000, both 30 ft., Stephens Co.; and concrete or rock asphalt surfacing 101,770 sq.yd. Guthrie-Edmond Rd., 18 ft., Logan Co., $280,000. J. M. Page, highway engr.

Calif., San Diego — Feb. 1, by Common Council, improving Pearl St., Girard Ave., etc., 220,858 sq.ft. 6 in. and 18,359 sq.ft. 5 in. concrete paving, 12,792 sq.ft. concrete sidewalks, etc.; also Brighton Ave., 138,-929 sq.ft. 5 in. concrete paving, 2,152 lin.ft. concrete curbing, 15,465 sq.ft. concrete sidewalks, etc. F. A. Rhodes, city engr. Noted Dec. 17.

Calif., Ventura — See "Contracts Awarded."

See proposal advertisements on page 116, Advertising Section.

SEWER—CHICAGO, ILL.

Bids were opened by Sanitary District, Oct. 1, for constructing North Side Intercepting Sewer, Contr. No. 8. (A) Nash-Dowdle Co., 77 West Washington St. (awarded contract); (B) Carmine Roberts, 6921 Laflin St.; (C) T. J. Forschner Contracting Co., 3028 East 96th St.; (D) American Sewer & Drain Construction Co.; (E) G. Anderson, 11306 Parnell Ave. The unit bids are as follows

	A	B	C	D	E
1,600 lin.ft. sewer 5 ft. internal width	$35.00	$48.00	$39.00	$50.00	$45.00
3,700 lin.ft. sewer 4 ft. internal width and 5 ft. internal height	32.00	40.00	43.50	70.00	52.00
1,300 lin.ft. sewer 4 ft. internal diameter, monolithic concrete	20.00	34.00	20.00	22.00	40.00
1,300 lin.ft. sewer 4 ft. internal diameter, reinforced concrete pipe	23.00	28.00	23.00	20.00	45.00
3,200 lin.ft. sewer 2 ft. 8 in. internal width	34.00	22.00	44.00	30.00	38.00
1,400 lin.ft. sewer 2 ft. 3 in. internal diameter, vitrified clay pipe	15.00	18.00	15.00	15.00	35.00
1,400 lin.ft. sewer 2 ft. 3 in. internal diameter, reinforced concrete pipe	16.00	15.00	16.00	16.00	36.00
Drop connection (lump sum)	5,000.00	250.00	5,000.00	2,400.00	7,300.00
Junction chamber (lump sum)	1,000.00	300.00	1,000.00	2,500.00	900.00
Boatway crossing (lump sum)	500.00	1,000.00	500.00	2,300.00	2,400.00
Railroad crossing (lump sum)	1,000.00	700.00	1,000.00	1,000.00	1,200.00
3 connection manholes	500.00	150.00	500.00	500.00	900.00
3 special manholes	600.00	150.00	600.00	1,000.00	800.00
300 lin.ft. standard manholes	15.00	11.25	15.00	15.00	35.00
3 catch basins	100.00	125.00	100.00	100.00	175.00
15,000 lb. reinforcing steel	.08	.10	.08	.06	.08
17,000 lb. iron castings and miscellaneous metals	.10	.10	.10	.15	.12
100 cu.yd. rock excavation	5.00	5.00	5.00	5.00	5.00
100 cu.yd. additional earth excavation, in tunnel	4.00	4.00	4.00	4.00	4.00
100 cu.yd. additional earth excavation, in open cut	3.00	3.00	3.00	3.00	3.00
100 cu.yd. additional concrete, class A, in tunnel	17.00	17.00	17.00	17.00	17.00
100 cu.yd. additional concrete, class A, in open cut	14.00	14.00	14.00	14.00	14.00
100 cu.yd. additional concrete, class B	12.00	12.00	12.00	12.00	12.00
Extended totals (items 3a and 5a)	$354,200	$380,200	$435,150	$511,050	$523,665

Streets and Roads (Continued)

Calif., Willows—Feb. 1, by City Trustees, grading, curbing, guttering and 2½ in. Warrenite-bitulithic surfacing, etc. Butte and Tehama Sts. To exceed $40,000. B. Knock, city engr. Noted Dec. 31.

BIDS RECEIVED

Louisiana — State Hy. Comn., Baton Rouge, Jan. 7, graveling 14.3 mi. Eunice-Elton Highway, Federal Aid Project 163A, Evangeline and Jefferson Parishes, from Meyer-Greenwald Constr. Co., Monroe, $98,466. Noted Dec. 24.

Ill., Highland Park—For 33,000 ft. 5 in. concrete sidewalks on various streets in Ravonia Highlands, from A. Jorgenson, 1051 Tanck Ave., Kenosha, Wis., $31,379. Noted Aug. 20.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, Jan. 5, brick paving, etc., 1,695 yd. Wilson St., from Parkinson Bros., 3237 Carter Ave. $11,684; Kentucky rock asphalt paving, etc., 1,605 yd. Wellington Court, from Skrainka Constr. Co., Security Bldg., $8,800; asphaltic concrete paving, etc., 855 yd. Leamington St. and 2,270 yd. Humphrey St., from Webb-Boone Paving Co., 5103 Fyler Ave. $4,911 and $6,724 respectively; 2,105 yd. Humphrey St. and asphalt paving, etc., 16,230 yd. Nebraska St., from C. A. Moreno, Syndicate Trust Bldg., $8,146 and $55,254 respectively; Warrenite paving, etc., 13,110 yd. South Utah Pl. and 7,350 yd. Humphrey St., from Granite Bituminous Paving Co., Ry. Exch. Bldg., $56,000 and $31,050 respectively. Noted Dec. 17.

Tex., Austin — Travis Co., clearing, bridging and grading 5.345 mi. State Highway 29 A, Federal Aid Project 634, incl. 7,581 lb. reinforcing, from Smith-Boyette Co. masonry culverts $38,003, concrete culverts $38,701.

Tex., Dublin — Elrod Eng. Co., engrs., 3206 Elm St., Dallas, Jan. 5, paving with (a) 3 in. brick on gravel (b) 6 in. rein.-con. (c) 2½ in. brick on 5 in. concrete, from J. C. Field, State Natl. Bank Bldg., Denison, (a) $70,503 (b) $92,603; from J. McCarthy, Marshall, (c) $100,999. Noted Dec. 31.

Tex., Houston — Rock asphalt paving Dumble St. from Harrisburg Blvd. to Telephone Rd., from Uvalde Rock Asphalt Co., 829 Bankers Mortgage Bldg., $51,972.

Wash., Seattle—Bd. Pub. Wks., Jan. 8, from Paduano & Crimson, 1546 12th St. S., improving 8th Ave. N. E. et al., 10,800 sq.yd. two course concrete sidewalks at $1.28 per sq.yd., 25,250 cu.yd. excav. $0.38, etc., total $41,621.

Calif., Los Angeles—From P. J. Akmadzich, 821 Yale St., curbing, grading, guttering, concrete paving, etc., Edenhurst Ave. between Parkdale and Verdant Sts., $62,405; from C. W. Sparks, 142 North Commonwealth Ave., Prospect Ave. between Talmadge and Vermont Aves., 101,703 sq.ft. 7 in. concrete paving, etc. $0.21 per sq.ft., total $28,525; from G. H. Oswald, 366 East 58th St., 3rd St. between Harbor Blvd. and Pacific Ave., 148,831 sq.ft. asphaltic paving, etc. $0.235, total $78,750; also from Southern Pacific Constr. Co., 2813 Glendale Blvd., portion of North Sherman Way 243,705 sq.ft. concrete paving, etc. $0.1965 per ft., total approximately $53,500.

Calif., Los Angeles — Los Angeles Co., from H. E. Cox, Slavin Bldg., Pasadena, improving Palm Ave. Impvt. 320, 4.004 cu.yds. excav. $0.50 per cu.yd., 100,968 sq.ft. concrete paving $0.20, etc., total $30,872. Noted Dec 10.

Calif., Oakland—Supervs. Alameda Co., Jan. 11, roadways, walks, steps, walls, etc., at Highland Hospital, from Schuler & McDonald, 306 12th St., $219,970.

Calif., San Diego—Common Council, Jan. 11, from D. H. Ryan, 1615 Fern St., improving Muir Ave., 33,264 sq.ft. concrete sidewalk $0.16 per sq.ft., 6,200 lin.ft. 8 in. concrete curbing $0.60, 50 lin.ft. 6 in. concrete curbing $0.50, 125,593 sq.ft. 1½ in. asphaltic concrete on 3 in. bitminous paving, etc., $0.165, total $31,710. Noted Dec. 10.

Calif., San Rafael—Supervs. Marin Co., improving Fairfax Lane, Alder Way, etc., 84,704 sq.ft. 1½ in. Willite asphaltic concrete on asphaltic concrete paving, 5,840 sq.ft. 12 in. concrete curbing and guttering, etc., from Pacific States Constr. Co., Call Bldg., San Francisco, $38,610.

CONTRACTS AWARDED

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, to Uvalde Asphalt Co., 1 Bway., New York City, grading, curbing and permanent asphalt paving Autumn Ave. $4,892, East 18th St. $10,507, Newport St. $4,821, to Turecamo Contg. Co., 8706 Bay 12th St., 61st St. $6,673, 66th St. $7,588, and 82nd St. $10,018, to Borough Asphalt Co., 1301 Metropolitan Ave., 47th St. $1,634; to R. Lynster, 1364 Sterling Pl., grading, curbing and flagging Conklin Ave. $5,667, and Newport St. $2,390, to W. J. McHale, 1250 Jefferson St., 61st St. $3,908, to F. Persicano, 350 Fulton St., 66th St. $2,467, to C. Bennett Contg. Co., 414 Rutland Rd., 72nd St. $14,784, to Galco Contg. Co., 745 Dean St., 82nd St. $4,389. Grand total $79,738. Noted Jan. 14.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and curbing Clermont Ave., also grading and permanent sheet asphalt paving Chauncey St. to Sicilian Asphalt Paving Co., 41 Park Row, New York City, $7,200 and $10,830 respectively; grading, curbing and sidewalks on Central Ave., to Peace Bros., Inc., 57 North Lawrence St., Flushing, $1,623; 73rd St., to O'Brien & Kurth, 8625 13th St., Jamaica, $7,840; and various avenues, to Kennedy & Smith, 93 Amity St., Flushing, $55,320. Grand total $82,873. Noted Jan. 7.

Pennsylvania—State Hy. Dept., Harrisburg, **(R. means Route and A. means Application)**, one course rein.-con. paving 20,938 ft. R. 50, A. 3474, Somerset Co., to W. W. Harper Constr. Co., Franklin, W. Va., $160,414, 9,803 ft. A. 3327, Somerset Co., to Rudolph-Delano, 27 Pine St., Tamaqua, $85,992, 14,070 ft. R. 296, A. 3611 Susquehanna Co., to Lincoln Constr. Co., Strafford, $105,261, 11,785 ft. A. 3632, Unity Twp. Rd., Westmoreland Co., to M. Barber, Henry St., Binghamton, N. Y., $92,345, 37,604 ft. A. 3464, Unity-Exeter Twp. Rd., Berks Co., to W. B. Sheidy, Wyomissing, $319,762, and 27,345 ft. A. 3222, Maxatawny-Greenwich Rd., Berks Co., to A. Direnzo, 1019 Wood St., Bristol, $211,545; and grading 74,500 ft. R. 93, Sect. 1, Limestone-Watson Rd., Warren Ct., to Rood Constr. Co., Savings Bank Bldg., Butler, $315,014. Grand total $1,290,333. Noted Dec. 17.

North Carolina — State Hy. Dept., Raleigh, to Overstreet & Nance Constr. Corp., Bedford, Va., improving roads on Project 955, Jackson Co., 38,000 cu. common excav. and borrow $0.60 per cu.yd., 409,200 sq.yd. plain concrete $2.48, etc. total $298,512; to J. F. Mulligan Constr. Co., North Wilkesboro, 7.81 mi. Project 348, Cumberland Co., 15,000 cu.yd. drainage ditch excav. $0.35, 24,940 cu.yd. common excav. and borrow $0.45, 50,000 sta.yd. overhaul, $0.015 etc., total $29,077; to W. E. Graham, Mt. Ulla; 9.07 mi. Project 605, Alexander Co., 101,300 cu.yd. common excav. and borrow $0.37, 21,500 cu.yd. solid rock excav. $0.90, 56,300 sq.yd. 6 in. uniform plain concrete $2.45, etc. total $206,495, Grand total $534,084. Noted Dec. 24.

Fla., Eustis—City Council, paving 116,000 sq.yd. various streets, to French & Lambright, Marysville, Tenn., $405,725; grading 40,000 sq.yd., to W. M. Igou, Eustis, $24,000, more or less. Noted Dec. 3.

Fla., Sarasota—Asphalt block paving 40,000 sq.yds. various streets, to Crawford Paving Co., Sarasota, $175,000; sheet asphalt paving 12,000 yd., to W. J. Bryson Co., Sarasota, $36,000.

Ill., Macomb—McDonough Co. 400,000 to 500,000 gal. road oil on State Aid Highways, to Monarch Asphalt & Road Co., 1019 Peoples Life Bldg., Peoria, at $0.0635 per gal.

Ill., Peoria — Bd. Local Impvts., to A. Beihl, 1011 3rd St., grading, curbing and brick paving California Ave. from Nebraska to Frye Sts., $7,348, to J. W. Bushell, 1321 South Washington St., grading, curbing and asphalt paving East Republic St. from Wisconsin St. 2½ blocks west, $16,114, to E. Lehmann, 309 North Institute St., grading, curbing and concrete paving East Gift Ave. from Pacific Ave. 1¾ blocks west $7,223, South Underhill St. from Bradley Ave. ½ block south $3,054, and grading, curbing and brick on concrete paving 5 blocks of Garden St., 35 ft. $34,664. Grand total $68,403. Noted Aug. 13, Sept. 3 and Dec. 10.

Ill., Rockford—Bd. Local Impvts., grading, curbing and vitr. brick on concrete paving 16 blocks North 2nd St., 30 ft., to A. E. Rutlege, Mead Bldg., $90,000. Engrs. est. $96,300. Noted Sept. 17.

Ill., Rockford—Bd. Local Impvts., grading, curbing and Warrenite paving 10 blocks Kilburn, North Horsman, North Winnebago and Mulberry Sts., 30 to 40 ft., to Northern Illinois Supply Co., Rockford. Engrs. est. $66,800. Noted July 23.

Ill., Rockford—Bd. Local Impvts., J. H. Hallstrom, pres., grading, curbing and Warrenite paving 16 blocks various streets, to Northern Illinois Supply Co., Rockford. Engrs. est. $142,900. Noted Sept. 10.

Kan., Garden City—Finney Co. improving 5.833 mi. Federal Aid Project 248-C, grading and surfacing, to O. Anderson, Garden City, $24,301; drainage structures, to Schultz Bros. Constr. Co., Parsons, $3,399. Noted Dec. 3.

Kan., Seneca — Nemaha Co., 7.386 mi. Federal Aid Project 225-B, Pikes Peak Ocean to Ocean Highway, to Monarch Eng. Co., Fall City, Neb., $49,814.

Kan., Wellington — Sumner Co. grading and sand clay surfacing 11.957 mi. Federal Aid Project 323-A and B 18 ft., to Schultz Constr. Co., Parsons, $76,791. Noted Oct. 1.

Tex., Albany — R. Dyess judge Shackleford Co., **(e. e. means engineers estimate)** to J. F. Dexter, North Texas Bldg. Dallas, improving 12.71 mi State Highway 1-A, Federal Aid Project 6, 130,035 sq.yd. triple bituminous surface treatment, 130,036 sq.yd. bituminous macadam base, etc., $219,017 e. e. $189,000 8.18 mi. State Highway 1-A, Federal Aid Project 477-A, Unit 2, 86,921

See proposal advertisements on page 116, Advertising Section.

Streets and Roads (Continued)

sq.yd. bituminous macadam surface course, etc. $125,744 e. e. $59,000, 2½ in. bituminous macadam paving 17.59 mi. State Highway 23, State Aid Project 515, Unit 2, $95,671 e. e. $94,430. Grand total $440,532. Noted Dec. 31.

Tex., Breckenridge — J. W. Hill, judge Stephens Co., bridging and bituminous concrete on sledged stone paving, etc., 16.83 mi. highway from Breckenridge to Throckmorton Co. line, and 17.76 mi. State Highway 67, State Aid Project 640, both 18 ft., to L. W. Pelphrey & Co., Breckenridge, $510,830 and $429,114 respectively. Engrs. est. $585,600 and $502,200 respectively. Noted Jan. 7.

Tex., Crockett — L. L. Moore, judge Houston Co., grading and bridging 6.745 mi. State Highway 19, Federal Aid Project 485-C, to Cook & Arrington, Crockett, $26,-889. Engrs. est. $30,000. Noted Dec. 1.

Tex., Huntsville — Walker Co., clearing, grubbing, grading and bridging 18.01 mi. State Highway 32, Federal Aid Project 489, 26 ft., to Smith-Boyette Co., Bryan, $96,-703. Engrs. est. $114,900. Noted Dec. 24.

Tex., Jourdanton — F. V. Lanham, chn. State Hy. Comn., Austin, Sept. 11, grading and bridging, etc 9.09 mi. Highway 9, State Aid Project 627-B, 43,577 cu.yd. unclassified and 63,264 cu.yd. borrow excav., 31,671 lb. reinforcing, etc., to H. J. Evans, 500 West 15th St., Austin, $27,246, engrs. est. $33,-000; 8.37 mi. State Highway 9, State Aid Project 627-A, 46,999 cu.yd. unclassified and 27,694 cu.yd. borrow excav., 69,932 lb. reinforcing, etc., to H. Kyle, Hutto, $29,-035 engrs. est. $36,400 both in Atascosa Co. Noted Nov. 12.

Tex., Kingsville—Paving and sewers approximately 3 mi. Kleberg Ave., 3rd, Yoakum, King, 7th and 8th Sts., to W. L. Pearson & Co., 1st Natl. Bank Bldg., Houston, approximately $175,000. Engrs. est. $182,000.

Tex., Sanderson—Terrell Co., gravel surfacing 5.56 mi. State Highway 3, Federal Aid Project 324-C., to W. T. Montgomery, Alamo Bank Bldg., San Antonio, $34,107. Engrs. est. $73,000.

Arizona—State Engineer, Phoenix, grading, etc. Safford State Line Highway, Federal Aid Project 88-A, to G. W. Orr, Box 114 El Paso, Tex., $37,459; and Prescott-Ash Fork Highway, Federal Aid Project 62-B, to H. Galbraith, Jerome, $31,-007. Noted Dec. 24.

Ariz., Phoenix—H. Callahan, city clk., to Schmidt & Hitchcock, Phoenix, improving Westmoreland St. between 7th and 5th Aves. 2,276 sq.yd. paving Specification 26AA at $2.05 per sq.yd., 56 sq.yd. paving Specification 42-5 $2.15, 2,332 sq.yd. grading $0.35, 1,335 lin.ft. combined curb and gutter Det. "E" $1.48, 96 lin.ft. single curb Det. "F" $0.85, 84 lin.ft. single gutter Det "G" $0.95, etc.; and to Pacific Constr. Co., Natl. Bank of Arizona Bldg., improving 8th St. between Garfield and Roosevelt Sts., 1,107 sq.yd. paving Specification 26AA at $2.03 per sq.yd., 99 sq.yd. paving Specification 42-5 $2.10, 1,206 sq.yd. grading $0.35, 615 lin.ft. combined curb and gutter Det. "E" $1.47, 169 lin.ft. single curb Det. "F" $0.87, and 131 lin.ft. single gutter Det. "G" $0.97.

Calif., Huntington Beach—Grading, curbing, iron culverts, ornamental street lighting system, 5 in. Topeka on asphaltic concrete surfacing, etc., 13th St. between Palm and Ocean Aves., to G. M. Souter, 410 9th St., $47,260. Noted Dec. 24.

Calif., Los Angeles—Curbing, walks and concrete paving Hyatt Ave. between O and Grant Sts., also, curbing, guttering, walks, concrete paving, etc., K St. between Banning and Wilmington Sts., to Sully-Miller Co., 1500 West 7th St., Long Beach, $30,893 and $49,300 respectively. Noted Jan. 14.

Calif., Los Angeles — Los Angeles Co. curbing, guttering and paving Moneta Ave. between 93rd and Pacific Electric Ry. right-of-way, 270,607 sq.ft. 6 in. concrete base, 281,166 sq.ft. 2 in. asphaltic concrete top, to G. H. Oswald, 366 East 58th St., $109,347.

Calif., Mill Valley—W. Falley, town clk., grading, asphaltic concrete paving, etc. Cascade Dr., to Pacific States Constr. Co., Call Bldg., San Francisco, $64,395. Noted Jan. 14.

Calif., San Bernardino—For 4 and 6 in. concrete paving and 6- to 10-in. vitr. sewers in 19th St. between A and Wall Sts., to G. Herz & Co., 456 E St., $40,950.

Calif., San Diego — Common Council, grading, sidewalks warrenite on bituminous paving 240,543 sq.ft. Harrison Ave., 24th and N Sts. to Griffith Co., 25 14th St., $52,-676. Noted Jan. 14.

Calif., San Francisco—Paving, etc. Civic Center Plaza, to Reed & Reed, 180 Jessie St., $83,797. Noted Dec. 31.

Calif., Ventura—Ventura Co., will grade and pave, etc. 250,000 sq.ft. portions of Spear Rd., by force account. C. W. Petit, Ventura, co. surv. Noted Jan. 7.

Calif., Vernon—Curbing, walks and 8 in. asphaltic concrete paving 141,900 sq.ft. portion East 49th St., to Los Angeles Paving Co., 2900 Santa Fe Ave., Los Angeles, $39,150.

Buildings—Industrial

PROPOSED WORK

Mass., Amesbury — DYE HOUSE — Merrimack Hat Corp., Merrimack St., plans 2 story, brick and steel, Merrimack St. $50,000.

Mass., Boston — FACTORY — L. Jolles, 174 Lincoln St., had plans prepared by A. J. Carpenter, Massachusetts Hill Ave., Jamaica Plains, 5 story, brick and steel, Lincoln St. $50,000.

Mass., Quincy (Ind. br. Boston)—FACTORY—Pneumatic Scale Co., N. S. Ross, purch. agt., 65 Newport Ave., plans 3 story, brick and steel addition, Newport Ave. $50,-000. Engineer and architect not selected.

Conn., Hartford — REPAIR SHOP and GARAGE—Nirenstein & Schwartz, North Main St., having plans prepared by Berenson & Moses, 30 Allyn St., 1 story, 61 x 154 ft., rein.-con., brick and steel, North Main St. $40,000.

Conn., Torrington—FACTORY—Progressive Mfg. Co., 52 Norwood St., had plans prepared by W. E. Hunt, 182 Church St., 55 x 141 ft., brick and timber addition. $40,000.

N. Y., Buffalo — CEMENT PLANT — Buffalo Slag Co., Ellicott Sq. Bldg., plans cement plant. $2,000,000.

N. Y., New York—SUB-STATION—New York Edison Co., East 15th St., having plans prepared by W. Whitehill, 709 6th Ave., brick, steel and stone, plain foundation, 22 East 33rd St. $40,000.

N. J., Trenton—MACHINE SHOP, etc.—Essex Rubber Co., Beakes and May Sts., plans rebuilding machine shop, finishing and inspecting departments, recently destroyed by fire. $200,000. C. H. Oakley, pres. Engineer and architect not selected.

Pa., Phila.—MILL—Penrose Tapestry Co., Kinsey and Josephine Sts., soon lets contract 2 story and basement, 122 x 256 ft., rein.-con., brick and steel, plain foundation, Kensington Ave. and Buckins St. $250,000. Private plans.

Pa., Pittsburgh—PUBLISHING PLANT — Pittsburgh Press Publishing Co., 22 Oliver Ave., having plans prepared 160 x 240 ft. plant, 2nd Ave. and Short St. Private plans.

Fla., Davenport—CONCRETE PLANT—Davenport Lumber & Supply Co., Inc., H. H. Brenner, pres., plans (1st unit) 28 x 72 ft., and 65 x 137 ft. woodworking division, room for manufacturing cement products office, warehouse, etc.

Fla., Fulford—CEMENT PLANT—Kelbay Corp., 342 Madison Ave., New York City, N. Y. plans cement block plant, 25,-000 daily capacity, here. $100,000.

Fla., Lakeland — ICE and COLD STORAGE PLANT — Lakeland Cold Storage Co., R. H. Alderman, pres., plans ice and cold storage plant. $125,000.

Ala., Gadsden—WAREHOUSES—A. and J Stove Mfg. Co., plans 50 x 150 ft. and 40 x 150 ft., brick warehouses.

Miss., Vicksburg—ICE PLANT—City Ice Co. having plans prepared by J. L. Blackwell, Vicksburg, brick and concrete ice plant. $50,000.

La., Morgan City — PULP and PAPER MILL — Dixie Pulp & Paper Corp., Union Indemnity Bldg., New Orleans, plans pulp and paper mill, near here. E. G. Simmons, Union Indemnity Bldg., New Orleans, vice-pres. and genl. mgr.

Ky., Louisville — HYDRO-ELECTRIC PLANT — Kentucky Hydro-Electric Co. having plans prepared by L. F. Harza, 53 West Van Buren St., Chicago, Ill., 2,000 kw. hydro-electric plant, at Lock 7, on Kentucky River.

O., Cleveland — FACTORY — Cleveland Automobile Co., c/o J. J. Krall, secy.-treas., London Rd., had plans prepared by E. McGeorge, engr. and archt., 3030 Euclid Ave., 1 story, 120 x 180 ft., brick and steel addition. $100,000.

O., Cleveland—FACTORY—W. S. Tyler Co., 3613 Superior Ave., had plans prepared by G. S. Rider Co., Century Bldg., 6 story and basement, 82 x 118 ft., rein.-con., brick and steel, Superior Ave. $300,-000.

O., Irondale—PLANT—F. J. Dando plans rebuilding plant, recently destroyed by fire. $75,000.

O., Toledo—FACTORY—Champion Spark Plug Co., Avondale and Upton Sts., H. A. Stranahan, pres., plans 6 story factory addition.

Ill., Chicago — FACTORY — A. S. Alschuler, archt., 28 East Jackson Blvd., takes bids about Jan. 25, 6 story and basement, 87 x 100 ft., brick and stone factory and altering adjoining structure, Superior and Sedgwick Sts., for Peanut Specialty Co., 212 West Superior St. Noted Dec. 31.

Ill., Chicago — MANUFACTURING — P. Mayer, Parkway Hotel, having sketches made by L. G. Hallberg & Co., 116 South Michigan Ave., 8 story and basement, 160 x 200 ft., rein.-con. and brick, 613-701 South Clinton St. $500,000.

Ill., Chicago—FACTORY—Olson Rug Co., 28 South Laflin St., having plans prepared by J. E. Davidson, 53 West Jackson Blvd., 6 story and basement, 82 x 135 ft. addition, 14-20 South Laflin St.

Wis., Antigo—CHEESE FACTORY and CREAMERY—D. D. Korth, R. F. D., plans 2 story, brick and tile, plain foundation, near here. $40,000. Engineer and architect not selected.

Wis., Madison — MILL — Way Building Co., c/o W. Way, 20 North Orchard St., plans brick, tile and timber, plain foundation, Orchard St. $40,000. Engineer and architect not selected.

Wis., Madison — REPAIR SHOP — R. Mitchell, 635 Williamson St., having plans prepared by F. L. Kronenberg, Carroll Bldg., 2 story, 50 x 150 ft., brick, tile and rein.-con., Williamson St. $50,000.

Wis., Mineral Point — CANNERY — Mineral Point Canning Co., c/o W. H. Carrell and A. A. Schnurr, plans 2 story, brick and timber, plain foundation cannery, here. $50,000. Engineer and architect not selected.

Wis., St. Nazianz—POWER PLANT and LAUNDRY — See "Buildings—Educational, Religious."

Ia., Oskaloosa—BRICK PLANT—Standard Clay Products Co., T. J. Neiswanger, supt., plans 1 story and basement, brick addition. $50,000. Private plans.

Missouri — COLD STORAGE — Missouri Farmers Assn., Inc., Columbia, H. A. Cowden, secy., making preliminary plans 2 story and basement cold storage plant. $150,000.

Mo., Jackson — SHOE FACTORY — International Shoe Co., 1501 Washington Ave., St. Louis, making preliminary plans 2 story, brick and concrete top addition. $65,000.

Mo., Kansas City — GARAGE and MACHINE SHOP — H. F. Hoffman, Trenton, plans 2 story and basement 57 x 150 ft. garage and machine shop, 36th St. and Bway. Private plans.

Mo., Kansas City — DISTRIBUTING PLANT — Sun Oil Co., 524 South Cheyenne St., Tulsa, Okla., A. M. Ballard, sales mgr., plans distributing plant, here. $200,-000.

Tex., Amarillo — COTTON SEED OIL MILL—H. W. Allen, Shamrock, purchased 10 acre site and plans rein.-con., brick, tile and stone, plain foundation. $250,000. Private plans.

Tex., Denison — PAPER PLANT — Denison Herald Publishing Co., c/o J. L. Green, bus. mgr., plans new rein.-con. and brick plant. $45,000. Engineer and architect not selected.

Tex., Junction — PLANT — West Texas Utility Co., Abilene, purchased plant and making surveys enlarging same, here. $40,-000 or more. Private plans.

Tex., Kenedy — ICE PLANT — Texas Central Power Co., c/o Frost Bank Bldg., San Antonio, plans wrecking present 18 ton plant and construct new 30 ton plant, here. $50,000. Private plans.

Tex., Kerrville—WOOLEN MILL—Stock Co., c/o O. E. Salter, having surveys made permanent construction woolen mill. $200,-000 or more.

Okla., Enid — CREAMERY — Armour & Co., 208 South La Salle St., Chicago, Ill., having preliminary plans prepared 2 story and basement, 96 x 164 ft., brick, plain foundation, here. $160,000. Engineer and architect's names withheld.

Wash., Seattle—FACTORY—J. Graham, archt., Dexter Horton Bldg., takes bids about Mar. 11, 5 story and basement, 100 x 200 ft., rein.-con. factory, for Best Universal Lock Co., 1121 Post St. $250,000.

Calif., Fresno—MACHINE SHOP, etc.—Southern Pacific Ry. Co., 65 Market St., San Francisco, plans round house, machine shop, switching facilities, ice plant. $1,500,000 or more. Eng. Dept. of Owners, engrs.

Calif., Hayward — SUB-STATION — Pacific Gas & Electric Co., 245 Market St., San Francisco, plans sub-station, here. $150,000. Eng. Dept. of Owners, engrs.

Calif., Isleton — FACTORY — Isleton Canning Co., J. S. Warmington, mgr., plans 1 story, 150 x 250 ft. factory.

See proposal advertisements on page 116, Advertising Section.

Buildings—Industrial (Continued)

Calif., Isleton — PACKING PLANT — California Co-Operative Canneries, 230 California St., San Francisco, plans packing plant, here. $250,000.

Calif., Los Angeles — FACTORY — Advance Auto Body Wks., 515 Mission Rd., having plans prepared by H. E. Bean, Central Bldg., 2 story, 125 x 156 ft., and 30 x 40 ft. separate building, Macy St. and Mission Rd. $100,000 or more.

Calif., Los Angeles — FACTORY — Angelus Furniture Mfg. Co., 931 East Pico St., having plans prepared by C. J. Smale, 509 South Western Ave., 2 story, 177 x 504 ft., brick, East Pico St. $150,000.

Calif., Manteca—SUB-STATION—Pacific Gas & Electric Co., 245 Market St., San Francisco, plans sub-station, here. $250,000. Eng. Dept. of Owners, engrs.

Calif., Redwood City—SUB-STATION—Pacific Gas & Electric Co., 245 Market St., San Francisco, plans sub-station here. $175,000. Eng. Dept. of Owners, engrs.

Calif., Salinas—SUB-STATION—Pacific Gas & Electric Co., 245 Market St., San Francisco, plans sub-station, here. $125,000. Eng. Dept. of Owners, engrs.

Calif., San Carlos—FACTORY—California Concrete Products Co., Inc., Sunnyvale, plans concrete building tile, etc. factory, here. $40,000 or more.

Calif., San Mateo — SUB-STATION — Pacific Gas & Electric Co., 245 Market St., San Francisco, plans sub-station here. $165,000. Eng. Dept. of Owners, engrs.

Que., Hull—GENERATING STATION—Canadian International Paper Co., Three Rivers and Hull, had plans prepared generating station and concrete dam in Ottawa River, near here. *3,000,000. O. Lefevre, Montreal, engr.

Ont., Port Arthur—NEWSPRINT PLANT — Thunder Bay Paper Co. Ltd., having plans prepared 100 tons daily capacity, rein.-con., brick and steel, caisson foundation. $1,000,000. Private plans.

BIDS DESIRED

Pa., Chester—MILL—Feb. 1, by Heckman & Lemaistre, archts., Bellevue Court Bldg., Phila., 53 x 992 ft. winding building, 58 x 300 ft. weaving building, 56 x 134 ft. finishing building, each 2 story and basement, also 1 story and basement, 43 x 100 ft. bleaching building, all rein.-con. and brick additions, plain foundations, here, for Chester Lace Mills, 2nd and Clayton Sts.

Pa., Pittsburgh—DYEING and CLEANING PLANT—Crandall-McKenzie Co., Jenkins Arcade, taking bids 2 story and basement, irregular shaped, brick and hollow tile, Spencer St. $40,000. Private plans.

Pa., Pittsburgh — DAIRY PLANT — Shadyside Dairy Co. and McCormick Co., archts., South Negley Ave., taking bids 1 and 2 story and basement, irregular shaped, brick and steel, Dennison Ave. $50,000.

Ind., Indianapolis—SUB-STATION—Merchants Heat & Light Co., Meridian and Washington Aves., taking bids 6 story, 100 x 125 ft., brick, steel and rein.-con. substation. $100,000. C. Brossman, 1503 Merchants Bank Bldg., engr.

Mich., Detroit—SERVICE—Jan. 23, by A. Kahn, archt., 1000 Marquette Bldg., 2 story (ultimately 4 story) and basement, 131 x 147 ft., rein.-con. and brick, plain foundation, Hague Ave., for Packard Motor Co., East Grand Blvd. $150,000.

Wis., Elcho — GARAGE and REPAIR SHOP—C. W. Fish taking bids 1 story, 52 x 100 ft., concrete and stone, plain foundation. $50,000. Wolf, Sexton, Harper & Treaux, 7 West Madison St., Chicago, Ill., archts.

Ia., Marshalltown—PLANT—See "Contracts Awarded."

N. D., Fargo — PRINTING PLANT — Fargo Forum plans 2 story and basement, 75 x 140 ft., rein.-con. and brick, 5th St. and 1st Ave., N. $85,000.

Tex., San Angelo — ICE PLANT — See "Contracts Awarded."

Sask., Moose Jaw—PACKING PLANT—See "Contracts Awarded."

CONTRACTS AWARDED

Pa., Pittsburgh—MANUFACTURING—Lustro Coated Sheet Co., 1312 Sheffield St., general contract 1 story, 100 x 200 ft., Ridge Ave., to Austin Co., Union Trust Bldg. Archts. est. $500,000. Noted Jan. 14.

Va., Richmond—FACTORY—Liggett & Myers Tobacco Co., Inc., 212 5th Ave., New York City, 5 story, rein.-con. and steel addition, plain foundation, 7th St., here, to Wise Granite & Constr. Co., Amer. Bank Bldg.

W. Va., Huntington—PLANT—International Nickel Co., Guyan River Rd., general contract two 65 x 275 ft. building additions, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O.

SEWER—CHICAGO, ILL.

Bids were opened by Sanitary District of Chicago for North Side Intercepting Sewer, Contract No. 7 (lowest four and highest), (A) American Sewer & Drain Construction Co., Kenilworth and Central Park Aves., Niles Center, Ill. (awarded contract); (B) T. J. Forschner Contracting Co., 3028 East 96th St.; (C) Nash-Dowdle Co., 77 West Washington St.; (D) Ranieri & Morley, 4901 Altgeld St.; (E) Chicago Foundation Co., 76 West Monroe St. The unit bids are as follows:

	A	B	C	D	E
2,900 lin.ft. sewer, 6-ft. internal width	$69.00	$76.00	$65.00	$75.00	$83.30
4,000 lin.ft. sewer, 4-ft. internal width	43.00	56.00	56.00	60.00	69.00
Junction chamber (lump sum)	1,500.00	2,300.00	40,000.00	1,500.00	1,500.00
200 lin.ft. manholes	15.00	35.00	20.00	25.00	15.00
22,000 lb. reinforcing steel	.08	.08	.10	.03½	.08
7,000 lb. iron castings and miscellaneous metals	.10	.12	.12	.03	.11
100 cu.yd. rock excavation	5.00	5.00	5.00	5.00	5.00
100 cu.yd. additional earth excavation, in tunnel	4.00	4.00	4.00	4.00	4.00
100 cu.yd. additional earth excavation, in open cut	3.00	3.00	3.00	3.00	3.00
100 cu.yd. additional concrete, Class A, in tunnel	17.00	17.00	17.00	17.00	17.00
100 cu.yd. additional concrete, Class A, in open cut	14.00	14.00	14.00	14.00	14.00
100 cu.yd. additional concrete, Class B	12.00	12.00	12.00	12.00	12.00
Extended totals	$384,560	$461,800	$465,040	$470,425	$530,100

Md., Conowingo — POWER PLANT — Stone & Webster, 120 Bway., New York City, N. Y., sublet contracts for excavation, dam, etc., here, to Arundel Corp., Pier 2, Pratt St., Baltimore; for Susquehanna Power Co., (owned by Phila. Electric Co., 20th and Chestnut Sts., Phila. Pa.) Approximately $20,000,000. Noted Mar. 5.

Fla., Tampa—WATER HEATER PLANT—Solar Water Heater Co., (1st unit) 100 x 100 ft. plant, to Logan Bros., 918 Citizens Bank Bldg., approximately $60,000. Engineer and architect not announced.

Ala., Mobile — MANUFACTURING — Kahn Mfg. Co., St. Louis St., plant addition, to G. A. Chamblin & Son, St. Joseph St., $60,000.

Ala., Montgomery—ICE PLANT—Independent Ice Co., J. W. Hunter, secy., 115 North Lawrence St., Plant 2, to S. O. Estest Co., 23 Adam St. Engrs. est. $200,000. Noted Oct. 29.

Tenn., Chattanooga—FACTORY—Corley Mfg. Co., 1901 Williams St., 90 x 200 ft., 30 x 60 ft., and 40 x 50 ft., rein.-con. and steel buildings, to Buenner & Cannon, Frazier St., $30,000. Noted Dec. 17.

O., Cleveland—BOILER HOUSE—Amer. Steel & Wire Co., Rockefeller Bldg., steel contract 4 story and basement, 98 x 139 ft., concrete, brick and steel, Bway., to Amer. Bridge Co., Frick Bldg., Pittsburgh, Pa. Archts. est. $200,000.

O., Cleveland—FACTORY—Dill Mfg. Co., A. E. Bronson, secy., 694 East 82nd St., 4 story and basement, 46 x 80 ft., brick and steel addition, to J. C. F. Shafer Co., Smythe Bldg. Archts. est. $50,000.

O., Cleveland — FOUNDRY and MACHINE SHOP — Morgan Brass Co., L. Stern, secy., 2104 Woodland Ave., 1 story, 100 x 200 ft., brick and steel, 9115 George Ave., to J. Baskin, 9215 Parkgate Ave. Archts. est. $75,000. Noted Nov. 19.

Ind., Terre Haute — SUB-STATION — Indiana Electric Corp., 2701 South 8th St., brick, steel and rein.-con. addition to Lenore sub-station, plain foundation, to Stone & Webster, 147 Milk St., Boston, Mass. Engrs. est. $250,000.

Mich., Detroit — STOCK BUILDING — Hudson Motor Car Co., 12601 East Jefferson Ave., 1 story, 150 x 340 ft. stock building with craneway addition, Jefferson Ave., to H. G. Christman Co., 315 Stevens Bldg. Noted Sept. 24.

Mich., Detroit—SWITCHING STATIONS—Pub. Lighting Comn., 174 East Atwater St., Switching Stations, A, B and C, each 2 story and basement, 64 x 89 ft., 55 ft. high, rein.-con., brick and steel, in connection with Morrell St. power plant, to W. H. Mueller, 2210 Park Ave., $373,000. Noted Dec. 17.

Mich., Detroit—GARAGE and SERVICE—Weston & Ellington, engrs. and archts., 1507 Stroh Bldg., 3 story and basement, 160 x 198 ft., rein.-con., brick and steel, plain foundation, Sixth and Noble Sts., to Walbridge & Alldinger Co., 2356 Penobscot Bldg., for Detroit City Gas Co., Clifford and Bagley Aves. Archts. est. $150,000. Noted Oct. 22.

Ill., Chicago—PAINT FACTORY—Wadsworth Howland Co., 225 North Carpenter St., general contract 6 story and basement, 111 x 163 ft., brick and stone, Northwestern Ave. and Pan Handle Ry. tracks, to H. F. Friedstedt Co., 431 North Michigan Ave. Archts. est. $150,000.

Wis., Kenosha—DAIRY—Guernsey Co-Operative Milk Co., 1208 Salem Ave., 1 and 2 story and basement, 60 x 70 ft., brick and concrete, plain foundatino, Huron St., to K. P. Knudsen, 473 Pomeroy St. Archts. est. $45,000.

Wis., Milwaukee—FACTORY—A. L. Seidenschwartz, archt., 290 3rd St., superstructure 1 story, 76 x 200 ft., brick and timber, Port Washington Rd., to Lupinski & Wolff, 82 Wisconsin Ave., for Plastic Products Co., 123 Reservoir Ave. Noted Dec. 24.

Wis., Milwaukee — ENGINE-BLOWER HOUSE—Red Star Yeast & Products Co., 79 Buffalo St., 2 story, 52 x 70 ft., brick, concrete and steel addition, plain foundation, 27th St., to Universal Constr. Co., 915 Chestnut St. Archts. est. $50,000.

Ia., Marshalltown — PLANT — Marshalltown Mfg. Co., F. M. Farber, mgr. and secy., will build 3 story, 60 x 75 ft. addition, by day labor.

Ia., Newton—GREY IRON FOUNDRY—Maytag Co., 1 story and basement, 190 x 280 ft., brick and concrete addition, to Lanning Bros., Oskaloosa.

Mo., Sedalia—RECLAMATION PLANT—See "Railways."

Tex., San Angelo—ICE PLANT—M. D. and W. F. Kennemer, will build brick and concrete, 50 ton capacity North Chadbourne St., by day labor. $100,000. Private plans.

Ore., St. Helens — PAPER MILL — St. Helens Paper & Pulp Co., 2 story, 80 x 300 ft. paper mill, to A. Gutherie & Co., Sherlock Bldg., Portland. Engrs. est. $500,000.

Calif., San Francisco — PRINTING PLANT — T. Ronneberg, engr., Crocker Bldg., 3 story, rein.-con., Sansome St. near Green St., to Cahill Bros., 55 New Montgomery St., for Sunset Publishing Co. Approximately $155,500. Noted Dec. 31.

Sask., Moose Jaw—PACKING PLANT—Swift Canadian Co. Ltd., Winnipeg, Man., will repair and remodel plant, here, by day labor. $90,000.

Buildings—Commercial

PROPOSED WORK

Mass., Dorchester (Boston P. O.)—HOSPITAL—Boston Hospital for Incurables, 2049 Dorchester Ave., having preliminary plans prepared by Kendall Taylor Co., 142 Berkeley St., Boston, new hospital. $250,000.

R. I., Edgewood (sta. Providence) — TEMPLE—Building Com. Harmony Lodge Masons, having plans prepared by Jackson, Robertson & Adams, 1216 Turks Head Bldg., Providence, brick and steel, Norwood Ave. $200,000.

R. I., Providence — BANK — Morris Plan Co., Canal St., having plans prepared by Jackson, Robertson & Adams, 1216 Turks Head Bldg., brick, steel and stone, Canal St. $200,000.

R. I., Providence—MARKET—Owner, c/o W. S. Sweet, pres. Fruit & Produce Assn., having plans prepared by T. J. Hill Pierce, Inc., 30 Allens Ave., 3 or 4 buildings, 2 main buildings, 90 x 600 ft., and 90 x 700 ft., brick and steel, incl. stores, garage, refrigeration plant, club, etc., Allens Ave. $2,500,000.

Conn., Middletown — HOSPITAL — State Hospital for Insane; F. M. Salmon, comptroller, State House, Hartford, having plans prepared by W. P. Crabtree, 272 Main St., New Britain, brick and steel additions to group of buildings, here. $150,000 or more. Noted July 9.

Conn., New Haven — BANK — Union & New Haven Trust Co., 57 Church St., having plans prepared by Cross & Cross, 681 Fifth Ave., New York City, brick, steel and stone, Elm and Church Sts. To exceed $150,000.

Conn., Norwich—ADMINISTRATION—Norwich State Sanitarium having plans prepared by A. Thompson, Norwich, and

See proposal advertisements on page 116, Advertising Section.

Buildings—Commercial (Continued)

takes bids in February, administration building. $150,000. Noted Nov. 5.

N. Y., Albany — APARTMENT — J. J. Finn, 74 Northern Blvd., plans 6 story, 68 x 90 ft., rein.-con. and brick, plain foundation, Stanvix St. $150,000. Private plans.

N. Y., Albany—OFFICE—Press Co., 18 Beaver St., had plans prepared by M. T. Reynolds, engr. and archt., 100 State St., 3 story, 100 x 150 ft., rein.-con., brick and steel, plain foundation, Eagle St. $300,000.

N. Y., Buffalo—STORE and OFFICE—A. Victor & Co., 514 Main St., plans 10 story store and office building, West Genesee St. To exceed $500,000.

N. Y., Lockport—Y. M. C. A. having preliminary plans prepared 190 x 200 ft., rein.-con. and brick building. $500,000.

N. Y., New York — APARTMENT — Westhome Realty Corp., c/o G. G. Miller, engr. and archt., 1482 Bway., having plans prepared 6 story, brick, steel and stone, plain foundation, Park Ave. and 184th St. $300,000.

N. Y., New York—APARTMENT—Park Ave. Leasing Corp., c/o G. L. Miller, engr. and archt., 1482 Bway., having plans prepared 15 story, brick, steel and stone, plain foundation, 100 West 58th St. $2,000,000.

N. Y., New York — APARTMENT — Dwellers Building Corp., c/o Springsteen & Goldhammer, engrs. and archts., 32 Union Sq., having plans prepared 5 story, brick, steel and stone, plain foundation, Allerton Ave. $250,000.

N. Y., New York—HOTEL—Ansonia Hotel, Bway. and 74th St., plans brick, steel and stone addition, plain foundation. $250,000. Engineer and architect not selected.

N. Y., Queens (Ind. br. Jamaica) — APARTMENT — W. Levine, c/o B. Driesler, engr. and archt., 153 Remsen St., Brooklyn, having plans prepared 4 story, 100 x 140 ft., brick, steel and stone, plain foundation, Roosevelt Ave.

N. J., Union — THEATRE — J. Stern Theatrical Enterprises, c/o W. E. Lehman, engr. and archt., Broad St., Newark, having plans prepared brick, steel and stone, plain foundation, here. $200,000.

Pa., Homestead — BANK — Monongahela Trust Co., 8th and Ann Sts., having plans prepared by A. G. Wickerham, archt., and Hopkins & Dentz, associated archts., 415 Lexington Ave., New York City, N. Y., for bank, 7th and Amity Sts. $500,000.

Pa., Phila.—BANK and OFFICE—Provident Trust Co., 409 Chestnut St., having plans prepared by Rankin, Kellogg & Crane, 1805 Walnut St., bank and office, 17th and Chestnut Sts.

Pa., Phila.—HOSPITAL—Mt. Sinai Hospital, 1429 South 5th St., having plans prepared by Magaziner, Eberhard & Harris, 603 Chestnut St., 4 and 8 story and basement, hospital buildings.

Pa., Phila.—Stadium, etc.—University of Pennsylvania, 34th and Spruce Sts., having preliminary plans prepared by Day & Klauder, Franklin Bank Bldg., 1 and 2 story, 277 x 343 ft., rein.-con. and brick indoor stadium and gymnasium, plain foundation, 33rd and South Sts. $400,000.

Pa., Phila.—STORE—W. L. Charr, archt., Victory Bldg., preparing plans 4 story and basement, 35 x 115 ft., rein.-con., brick and steel, plain foundation, 136-38 South St. Owner's name withheld.

Pa., Pittsburgh—THEATRE—Rowland & Clarke, Inc., State Theatre Bldg., having plans prepared by V. A. Rigamount, State Theatre Bldg., 2 story and basement, 180 x 200 ft., Penn Ave. between Beatty and Euclid Sts. $300,000.

Pa., Wilkinsburg—THEATRE—Rowland & Clarke, Inc., State Theatre Bldg., Pittsburgh, having plans prepared by V. A. Rigamount, State Theatre Bldg., Pittsburgh, and soon takes bids 2 story and basement theatre, Penn Ave. and Wood St. $250,000.

N. C., Albemarle — COURT HOUSE — Stanley Co. election in February $250,000 bonds, court house. Noted April 2.

N. C., Asheville — CITY HALL — Plans new city hall. $150,000. J. H. Cathey, mayor. C. Brown, chn. building com.

N. C., Winston-Salem—WAREHOUSE—R. J. Reynolds Tobacco Co., plans 5 story, 224 x 240 ft., rein.-con. warehouse, north of 5th St. $400,000.

Ga., Atlanta—CITY HALL—Plans election in March or April $1,000,000 bonds, new city hall. W. Sims, mayor. Noted Oct. 15.

Ga., Atlanta — OFFICE and STORE — Whitehead Realty Co., Candler Bldg., had plans prepared by Pringle & Smith, Atlanta Trust Co. Bldg., 10 story, 50 x 100 ft., rein.-con., brick and steel, Peachtree St. between Harris and Cain Sts. $314,000. Barge & Thompson Co., 100 East Ellis St., engrs.

Ga., Atlanta—THEATRE—A. F. Winecoff, Austell Bldg., having plans prepared by R. C. Snow, Bona Allen Bldg., 3 story 120 x 130 ft., rein.-con., brick and steel, 509 Peachtree St. $300,000. Griffin Hodges Co., Bona Allen Bldg., engrs.

Fla., Ft. Lauderdale — HOTEL — U. S. Realty Co., c/o Plaza Hotel, 5th Ave. and 59th St., New York City, N. Y., having preliminary plans prepared by Cass Gilbert, 244 Madison Ave., New York City, N. Y., 900 room hotel, here. $6,000,000.

Fla., Homestead—HOTEL—W. D. Horne and associates, plan hotel, North Krome Ave. $300,000.

Fla., Jacksonville—HOTEL—R. Kloeppell and associates, purchased site and plan hotel, West Adams and Julia Sts. $1,500,000. Marsh & Saxelbye, West Bldg., archts.

Fla., Sarasota—HOTEL—United Hotels Corp. of Sarasota purchased site and plans (1st unit) 12 story hotel. $400,000.

La., Lafayette — COURT HOUSE — Lafayette Parish Police Jury having plans prepared by J. W. Smith, Monroe, court house. $300,000. Noted Jan. 14.

Tenn., Bristol — HOTEL — Shelby Hotel Corp., plans 8 story and basement, 51 x 125 ft. rein.-con. hotel. Engineer and architect not selected.

O., Akron — WAREHOUSE — Firestone Tire Rubber Co., 1289 South Main St., plans new fabric warehouse. $200,000.

O., Hamilton—HOSPITAL—Mercy Hospital Assn. having plans prepared by G. Barkman, 4 story and basement, 85 x 195 ft. wings, concrete, brick and steel, Dayton St. $650,000.

O., Lakewood (br. Cleveland)—APARTMENT — J. T. Fritsche, 2193 McKinley Ave., plans 2 and 3 story, brick, Clifton Blvd. at Sloan and Kenilworth Aves. $225,000. Private plans.

O., Zanesville — COMMERCIAL and THEATRE — Brown Theatrical Co., O. Brown, pres., had preliminary plans prepared by Lockwood, Greene & Co., engrs. and archts., Hanna Bldg., Cleveland, 1 story, brick, steel and concrete commercial and theatre building. $200,000.

O., Youngstown — GARAGE and SERVICE STATION — F. G. King, pres. J. H. Fitch Co., having plans prepared by M. W. Scheibel, Realty Bldg., 5 story and basement, 63 x 250 ft., brick and rein.-con., Wick Ave. $400,000. Shanks & Foster, 6007 Euclid Ave., Cleveland, structural engrs. Noted Nov. 26.

Ind., Seymour—BANK—First Natl. Bank, having plans prepared by McGuire & Shook, Pythian Bldg., Indianapolis, 2 story and basement, 40 x 132 ft., brick, steel and rein.-con., concrete pile foundation. $160,000.

Mich., Detroit—OFFICE—Detroit Trust Co., West Fort St., having plans prepared 2 story and basement, 100 x 138 ft., rein.-con., brick and steel addition, plain foundation. $250,000. Engineer and architect names withheld.

Ill., Chicago — HOTEL — R. C. Harris, archt., 190 North State St., soon lets contract 15 story and basement, 50 x 100 ft., rein.-con., brick and stone, 17-19 East Ohio St., for A. Strunk, 69 Bellevue Pl. $725,000.

Ill., East St. Louis—HOTEL, etc.—C. E. Richardson et al., International Life Bldg., St. Louis, Mo., plans 2 large buildings, one hotel and apartment and other, office and store, on old brewery site, 10th and State Sts., here. Engineer and architect not selected.

Ill., Waukegan—BANK and OFFICE—A. S. Alschuler, archt., 28 East Jackson Blvd., takes bids about Jan. 25, 6 story and basement, 63 x 90 ft., brick and stone, Washington St., for Security Savings & Trust Co., Waukegan. Noted Jan. 7.

Wis., Baraboo—HOTEL—Warren Hotel, L. Hill, mgr., plans 4 story, brick, rein.-con., and steel addition. $150,000. Engineer and architect not selected.

Wis., Kenosha—CLUBHOUSE—F. O. E. Lodge 1055, J. Hermann, secy., East Wisconsin St., plans 2 story and basement, brick and concrete addition, plain foundation. $150,000. Engineer and architect not selected.

Wis., Kenosha — THEATRE — Saxe Amusement Enterprises, 530 Grand Ave., Milwaukee, having preliminary plans prepared by C. W. and G. L. Rapp, 190 North State St., Chicago, Ill., brick, concrete and terra cotta, plain foundation, Market St. $500,000.

Wis., Manitowoc — HOTEL — Hotel Williams, W. Seibel, proprietor, South 8th St., having plans prepared by Barkhausen & Logemann, 79 Wisconsin St., Milwaukee, 4 story and basement, 92 x 100 ft., brick, steel and concrete addition, plain foundation. $200,000.

Wis., Milwaukee — APARTMENT — J. Topzant, archt., 144 Oneida St., takes bids about Feb. 1, (2 units) each 3 story and basement, 43 x 161 ft., brick and tile, plain foundation, Sycamore and 24th Sts., for Goodsitt & Helfaer, 4609 North Ave., $275,000. Noted Dec. 3.

Wis., Milwaukee — OFFICE — R. T. Maischoss, 477 Menlo Blvd., having competitive sketches made 120 x 120 ft., brick and concrete or brick and steel, plain foundation, Bway. and Wisconsin St. Engineer and architect not selected.

Ia., Council Bluffs—HOTEL—Syndicate, c/o M. A. Tinley, doctor, plans hotel 1st and Pearl Sts. $400,000. Engineer and architect not selected.

Minn., Minneapolis—STORE and APARTMENT—H. Shanedling, vice-pres. Shanedling Dept. Stores, Inc., 3409 Lyndale Av. S., plans 3 story and basement, rein.-con. and brick, 4th St. S. E. and 13th-14th Aves. $150,000. Engineer and architect not announced.

Minn., St. Paul — GARAGE — Twin City Rapid Transit Co., 533 Wabasha St., having plans prepared several story and basement, rein.-con., and brick, 3rd and St. Peters Sts. $500,000. Private plans.

Kan., Wichita—APARTMENT—H. Hoffman, 1145 Coolidge Ave., having plans prepared 10 story and basement, 126 x 228 ft., brick and rein.-con. apartment. $500,000. Engineer and architect not selected.

Nebraska — THEATRES—World Realty Co., 1506 Douglas St., Omaha, plans 12 brick theatres in various cities, one at 29th and Leavenworth Sts., Omaha, one at Fremont, one at Columbus, and one at Hastings, etc. $100,000 each.

Neb., Omaha — CONVENTION HALL — Ak Sar Ben, Court House, plans 2 story and basement convention hall, Ak Sar Ben Field. $300,000. Engineer and architect not selected.

Neb., Omaha—MERCANTILE—T. Kilpatrick Co., 1511 Douglas St., having plans prepared by G. B. Prinz, Omaha Natl. Bank Bldg., 6 story and basement, 45 x 132 ft., brick, 1513 Douglas St. $300,000.

Mo., Kansas City — HOSPITAL — City making preliminary plans hospital. $1,200,000. Engineer and architect not selected.

Mo., St. Louis—WHOLESALE—Butler Building Co., c/o Butler Bros., 18th and Olive Sts., making preliminary plans rein.-con. and brick, approximately 750,000 ft. (ultimately 1,000,000 ft.) floor space. $3,000,000.

Ark., Hot Springs — HOTEL — J. W. Howe, et al., c/o Rockefellow Hotel, Hot Springs National Park, having plans prepared by Sanders & Ginnocchio, Hall Bldg., Little Rock, 6 story and basement, 60 x 116 ft., rein.-con., brick, steel and terra cotta, Central and Canyon Sts. $250,000. Noted Dec. 31.

Tex., Greenville—BANK and OFFICE—Greenville Natl. Exchange Bank, J. B. Clayton, pres. purchased site and plans 6 story and basement, 46 x 108 ft., rein.-con., brick and stone, plain foundation. $175,000.

Tex., Houston — HOTEL — Terminal Investment Co., c/o J. H. Crooker, 1202-16 State Natl. Bank Bldg., having plans prepared by J. R. Bailey, 1606 Main St. and takes bids about Feb. 10, 10 story, 125 x 250 ft., rein.-con., brick and steel, Texas Ave., Crawford and La Branch Sts. $800,000.

Tex., San Angelo—HOTEL—F. Roberts purchased site and making preliminary plans about 6 story and basement, rein.-con., brick, tile and stone, plain foundation. $150,000. Private plans.

Tex., San Benito—HOTEL—Hockenbury System, Inc., 200 North 3rd St., Harrisburg, Pa., plans 5 story and basement, rein.-con., brick and stone, plain foundation, here. $175,000. Private plans.

Okla., Bartlesville—CLUB—Bartlesville Country Club Assn. having plans prepared by E. B. Delk, 59th St. and Ward Parkway, 2 story and part basement, timber club. $150,000.

Okla., Oklahoma City—AUTO HOTEL—Reinhardt & Donovan, Tradesman Natl. Bank Bldg., plans 5 story and basement, rein.-con. auto hotel. Private plans.

Okla., Oklahoma City—OFFICE—Architects Assn., c/o H. Reynolds, archt., Terminal Bldg., having preliminary plans prepared 6 story and basement, 100 x 140 ft., rein.-con. and steel, plain foundation, 3rd St. $250,000.

Okla., Ponca City — OFFICE — Marland Oil Co., had plans prepared, 8 story and basement, 100 x 170 ft., rein.-con. and brick, plain foundation. $500,000. V. T. Moon, Ponca City, engr. Architect not selected.

Okla., Ponca City—WAREHOUSE and MILL—Ponca City Milling Co. had plans prepared 6 story, 73 x 300 ft. new warehouse and mill, also grain elevator, rein.-con., plain foundation, Central St. $200,000. Horner & Wyatt, Bd. of Trade Bldg., Kansas City, Mo., engrs.

See proposal advertisements on page 116, Advertising Section.

Buildings—Commercial (Continued)

Colo., Denver—HOSPITAL—Jewish Consumptives Relief Society, 5801 West Colfax Ave., having plans prepared by Fisher & Fisher, U. S. Natl. Bank Bldg., 4 story, 53 x 206 ft. womens pavilion, rein.-con., brick and steel, West Colfax St. and Colorado Blvd. $400,000.

Colo., Denver — OFFICE — Bosworth Chanute Building Co., 701 17th St., having plans prepared by Fisher & Fisher, U. S. Natl. Bank Bldg., 12 story and basement, 50 x 125 ft., rein.-con. steel, etc., 17th and California Sts. $500,000.

Colo., Denver — SOCIAL SERVICE — Y. W. C. A., 1545 Glenarm St., having plans prepared by Fisher & Fisher, U. S. Natl. Bank Bldg., 5 story and basement, 100 x 125 ft., fireproof, Tremont St. between 15th and 16th Sts. $500,000.

Colo., Denver — THEATRE — C. K. Boettcher & J. Evans, 828 17th St. having plans prepared by W. N. Bowman, Insurance Bldg., 6 story, 125 x 160 ft., rein.-con., brick and steel, 16th and Glenarm Sts. $750,000. Famous Players-Lasky Corp., 1625 Court Pl., lessee.

Ariz., Phoenix — HOTEL — Consolidated Hotels Corp., c/o H. L. Stevens, Co., 433 California St., San Francisco, Calif., plans approximately 12 story and basement, 150 x 275 ft., fireproof hotel, here. $500,000 or more.

Ore., Salem—BANK and OFFICE—First Natl. Bank having plans prepared by L. L. Dougan, Western Bond & Mortgage Bldg., Portland, 10 story, 46 x 102 ft., rein.-con. and terra cotta, State and Liberty Sts. $300,000. Noted Nov. 26.

California — HOSPITAL — City of San Francisco and San Francisco Co. purchased site and plans group tubercular preventorium buildings, rein.-con., near Pulgas tunnel, San Mateo Co. To exceed $1,000,000 incl. roads, etc. H. H. Meyers, Kohl Bldg., San Francisco, archt.

Calif., Alhambra—APARTMENT—Starrett & Payne, archts., Western Mutual Life Bldg., Los Angeles, soon take bids 5 story and basement, 90 x 171 ft., rein.-con., South Garfield Ave., for Community Hotel Co. of Alhambra, c/o architects. Noted Dec. 31.

Calif., Berkeley — THEATRE, STORE and OFFICE — Beach Krahn Theatres, Inc., M. I. Diggs, 244 Lake Dr. Blvd., Oakland, had plans prepared by J. A. Marshall, 5658 College Ave., Berkeley, Class "A," College and Claremont Aves. $250,000. Noted June 25.

Calif., El Centro — HOTEL — Barbara Worth Hotel, having plans prepared by Walker & Eisen, Great Republic Bldg., Los Angeles, 6 story and basement addition.

Calif., Fresno—COURT HOUSE—Fresno Co. plans election $350,000 bonds, court house annex. Noted Oct. 22.

Calif., Fresno—HOSPITAL—Fresno Co. plans election $150,000 bonds, tubercular hospital. Noted Oct. 22.

Calif., Los Angeles—HOTEL—C. F. DeLong, 107 South Irving Blvd., had plans prepared by M. E. Durfee, 505 Commercial Exch. Bldg., 10 story and basement, 110 x 147 ft., timber and rein.-con., 620 South Flower St. To exceed $150,000.

Calif., Los Angeles—STORE and OFFICE —Paulus & Hartfield, c/o Walker & Eisen, archts., Great Republic Bldg., having plans prepared 2 story, 145 x 185 ft., probably rein.-con., Bway. and Temple Sts. $150,000.

Calif., Los Angeles — STORE — Meyer-Seigel & Co., 617 South Bway., had plans prepared by Felchin, Shaw & Franklin, Commercial Exch. Bldg., 6 story and basement, 60 x 152 ft., rein.-con. and steel, Flower St. $250,000 or more.

Calif., Los Angeles — STORE and OFFICE — W. Crittenden having preliminary plans prepared by J. Cooper, Rives-Strong Bldg., 12 story and basement, 100 x 175 ft., rein.-con., Main and 10th Sts.

Calif., Los Angeles—STORE and OFFICE —H. Shapiro, had plans prepared by J. M. Haenke, Rives-Strong Bldg., 5 story and basement, 95 x 125 ft., rein.-con., Sunset Blvd. and Reservoir St. $150,000.

Calif., Los Angeles — THEATRE — J. P. Perrine, archt., Lincoln Bldg., soon takes bids 2 story and basement, fireproof, 26th and Pasadena Aves., for West Coast Theatres, Inc. $150,000.

Calif., Oakland — APARTMENT — Sommarstrom Bros., c/o C. N. Burrell, archts., 250 Grand Ave., had plans prepared 5 story and basement, brick and steel, Bay Pl. $200,000. Noted Dec. 31.

Calif., Oakland — LODGE — C. Werner, archt., Santa Fe Bldg., San Francisco, soon takes bids steel and rein.-con., Oak St. facing Lake Merritt, for Masonic Cathedral Assn. of Oakland. $1,000,000.

Calif., Oakland—THEATRE, STORE and OFFICE — J. A. Marshall, archt., 5658 College Ave., Berkeley, preparing plans rein.-con., Park Blvd., here. $150,000. Owner's name withheld.

Calif., San Diego—STORE and LOFT—H. L. Benbough Furniture Co., 1177 5th Ave., plans 6 story and basement, fireproof, 4th and B Sts. $250,000.

Calif., San Francisco—HOSPITAL—Shea & Shea, archts., 454 Montgomery St., takes bids about Jan. 19, 5 story and basement, rein.-con. annex, Stanyan, Grove, Schrader, and Hayes Sts., for St. Marys Hospital. $800,000. Coddington & Duncan, Phelan Bldg., engrs. Noted Oct. 22.

Calif., San Francisco — STORE — Weinstein Co., 1041 Market St., having plans prepared by W. Knowles, Hearst Bldg., 2 story, fireproof addition, Market St. near 7th Ave. $500,000.

Calif., San Francisco — THEATRE — Ackerman & Harris, Phelan Bldg., plan Class "A," 1,600 seating capacity, San Bruno Ave. $250,000.

Calif., Santa Barbara — ADMINISTRATION—State Building Comn., Sacramento, had plans prepared by G. B. McDougall, Forum Bldg., Sacramento, 2 story, Spanish type administration building, here. $150,000.

Calif., Santa Barbara—COURT HOUSE—Santa Barbara Co. having plans prepared by W. Mooser, Nevada Bank Bldg., San Francisco, fireproof court house. $600,000 bond election soon. Noted Dec. 3.

Calif., Santa Barbara — RECREATION CENTER — Margaret Baylor Inn, having revised plans prepared by J. Morgan, Merchants Exch. Bldg., San Francisco.

Calif., Ventura—LODGE and STORE—Masonic Lodge Assn. had plans prepared by C. C. Rittenhouse, Wilcox Bldg., Los Angeles, 3 story, fireproof construction. $150,000.

Que., Montreal—BANK—Royal Bank of Canada, St. James St., having plans prepared by York & Sawyer, engrs. and archts., 10 East 42nd St., New York City, N. Y., 16 story, steel and stone, St. Peter and St. James Sts., $1,000,000.

Ont., Fort William — HOTEL — J. McCranor, c/o Avenue Hotel, plans 3 story and basement, rein.-con., brick and steel addition plain foundation. $150,000.

Ont., Walkerville — HOSPITAL — Essex Border Utilities Comn., Murray Bldg., Windsor, plans 3 story and basement, rein.-con., brick and steel, plain foundation, here. $300,000. J. C. & Keith, Murray Bldg., Windsor, engr.

BIDS DESIRED

Mass., Hyannis — HOTEL — See "Contracts Awarded."

Mass., Malden (br. Boston) — APARTMENT — See "Contracts Awarded."

R. I., Pawtucket—HOME—Jan. 28, by B. P. O. E., 3 story, 82 x 150 ft., brick and steel, Exchange and Montgomery Sts. $150,000. O'Malley & Fitzsimmons, 84 Broad St., archts. Noted Jan. 14.

Conn., Hamden (br. New Haven) — THEATRE, OFFICE and STORE — Fishman Bros., 826 Dixwell Ave., New Haven, taking bids 2 story, 76 x 130 ft., brick and steel, Dixwell St., here. $150,000. C. H. Abramowitz, 42 Church St., New Haven, archt. Noted Dec. 24.

N. Y., Brooklyn — APARTMENTS — See "Contracts Awarded."

N. Y., Jamaica — APARTMENT — See "Contracts Awarded."

N. Y., New York—APARTMENTS—See "Contracts Awarded."

N. Y., West Haverstraw—HOSPITAL—Mar. 4, by State Hospital Comn., Albany, isolation building, nurses home, etc. at State Orthopedic Hospital, here. S. W. Jones, Capitol, Albany, archt.

N. J., Trenton—HOSPITAL, etc.—Feb. 8, by Bd. Institutions & Agencies, W. J. Ellis, acting comr., nurses home, physicians house, psychopathic and convalescent buildings, etc. at New Jersey State Hospital. $768,000. A. B. Mills, State Office Bldg., archt.

Pa., Butler—AUDITORIUM, etc.—Butler Fair Grounds Assn., E. A. Gibson, Younkens Bldg., taking bids 1 story, 48 x 320 ft. auditorium, etc. $150,000. Private plans. Noted Nov. 19.

Pa., Phila. — THEATRE — Jan. 25, by Boyd, Abel & Gugert, archts., Otis Bldg., 1 story and basement, 60 x 195 ft., rein.-con., brick and steel, plain foundation, Ogontz Ave. south of Chelton St., for Golden Bros., 1552 Germantown Ave. $175,000.

Fla., Tampa—HOSPITAL—Jan. 26, by City Council, new hospital in Marjory Park, Davis Islands. $1,000,000. Stevens & Lee, Boston, Mass., archt. L. M. Elliott, Citizens Bank Bldg., supervising archt. Noted Feb. 19.

La., New Orleans—BANK and OFFICE —Feb. 20, by E. Weil, archt., Whitney Bldg., 18 story, rein.-con., limestone and steel, on 110 x 235 ft. site, Common St., for Canal Bank & Trust Co. $4,000,000. Noted Aug. 6.

O., Cleveland Heights (Warrensville P. O.)—APARTMENT—Feb. 2, by Euclid-Overbrook Co., c/o F. Riley, Hanna Bldg., Cleveland, 4 story and basement, brick, Cedar Rd. near Euclid Heights Blvd., here. $400,000. A. W. Harris, Guarantee Title Bldg., Cleveland, archt. Noted Jan. 7.

Ill., Chicago—APARTMENT—McNally & Quinn, archts., 6 South La Salle St., and Quinn & Christensen, associated archts., 360 North Michigan Ave., taking bids 15 story and basement, 100 x 166 ft., rein.-con. and brick, 424 Melrose St., for W. C. Bannerman & Co., 77 West Washington St. $2,100,000.

Wis., Oshkosh—OFFICE—Jan. 28, by Wisconsin Natl. Insurance Co., 14 Washington St., and Auler & Jensen, archts., F. R. A. Bldg., 3 story and basement, 77 x 100 ft., stone and concrete, plain foundation. $200,000. Noted Nov. 12.

Ia., Des Moines—TEMPLE—Jan. 30, by Scottish Rite Temple Assn., W. Koch, chn., 6 story and basement, 114 x 162 ft., rein.-con., brick, stone, granite and steel, 6th and Park Sts. $600,000. Eng. Serv. Co., 620 Securities Bldg., engrs. Wetherall & Harrison, 1012 L. & J. Bldg., and Keffer & Jones, 204 Masonic Temple Bldg., archts. Noted Dec. 17.

Mo., St. Louis—HOME—La Beaume & Klein, archts., Compton Bldg., taking bids and open same about Jan. 22, 3 story and basement, 134 x 180 ft., rein.-con., brick and stone, Locust and Beaumont Sts., for Womens Christian Home, 1815 Washington Ave.

Mo., St. Louis—MORGUE—Feb. 16, by Bd. Pub. Serv., 208 City Hall, 1 and 2 story, 88 x 130 ft., rein.-con., brick and terra cotta, Clark Ave. $200,000. L. R. Bowen, 301 City Hall, engr. and archt. H. Updike, 301 City Hall, engr. Former bids rejected. Noted Sept. 24.

Wash., Zenith—INSTITUTION—Feb. 1, by Heath, Gove & Bell, archts., Pacific Savings Bank, Tacoma, 5 story, 30,000 sq.ft. floor space, fireproof building, here.

EXCAVATION, GRADING, ETC.—WHITE PLAINS, N. Y.

Bids were opened by Westchester County Park Comn., 72 West Pondfield Rd., Bronxville, for excavating, grading and drainage structures Silver Lake Parkway Dr. from Westchester Ave., to Hancock St., (A) Yonkers Contracting Co., 923 Nepperhan Ave., Yonkers (awarded contract); (B) Carofano Construction Co., First National Bank Bldg., Mt. Vernon; (C) W. F. Carey Co., Inc., 25 Broad St., N. Y.; E. Murolo, Thompson, Conn., $67,808; J. Palladino, Inc., 4179 Park Ave., New York, $72,155; Peckham Road Corp., White Plains, $72,750; Romaniello Contracting Co., New Rochelle, $95,900; Daly & Merritt, Inc., Port Chester, $98,420. The unit bids are as follows:

	A	B	C
13,000 cu.yd. stripping and storing top soil	$0.90	$1.00	$1.00
16,000 cu.yd. earth excavation	.45	1.00	.90
200 cu.yd. rock excavation	2.50	3.00	2.50
500 cu.yd. trenching	1.25	1.50	.75
350 cu.yd trench refill	.50	.01	.50
35,000 cu.yd embankment	.60	.59	.85
350 lin.ft. 8 in. porous tile underdrains	2.00	1.00	.75
260 lin.ft. 12 in. vitrified pipe, alt. A	1.00	1.00	1.00
260 lin.ft. 12 in. concrete pipe, alt. B	.75	1.00	1.50
180 lin.ft. 24 in. vitrified pipe, alt. A	4.00	4.25	3.00
180 lin.ft. 24 in. concrete pipe, alt. B	3.25	4.25	3.50
200 bbl. portland cement	3.25	3.50	3.25
80 cu.yd. concrete class A	17.00	18.00	18.00
50 cu.yd. rubble masonry	15.00	16.00	12.50
5,000 lb. reinforcing steel	.06	.06	.06
100 lin.ft. 12 in. reinforced concrete pipe	2.25	1.25	1.75
80 lin.ft. 24 in. reinforced concrete pipe	5.00	4.25	3.50
240 lin.ft. 36 in. reinforced concrete pipe	7.00	8.00	8.00
Extended totals alt. B	$48,245	$58,003	$64,872

See proposal advertisements on page 116, Advertising Section.

Buildings—Commercial (Continued)

for Washington State Masonic Home. $600,000.

Calif., San Jose — STORE and LOFT — Ashley & Evers, archts., Holbrook Bldg., San Francisco, taking bids 3 story, rein.-con., South 1st St., for Trinkler-Dohrmann Co., c/o architects. $150,000. Noted Oct. 29.

T. H., Honolulu—J. Morgan, archt., Merchants Exch. Bldg., San Francisco, Calif., taking bids 3 story and basement, rein.-con. with swimming pool, for Y. W. C. A., here. $300,000.

BIDS RECEIVED

Conn., New Haven — TEMPLE — Olive Branch Masons, 909 Whalley Ave., Nov. 18, 2 story and basement, 70 x 120 ft. brick and steel, from J. N. Leonard Co., 902 Chapel St., about $100,000. Noted Oct. 29.

Ia., Iowa City — MEMORIAL — Iowa Memorial Union Assn., Dec. 29, general contract (2nd unit) 3 story and basement, 55 x 136 ft., rein.-con., brick and stone, State University campus, from J. Hunzinger, Security Bldg., Davenport, $183,343.

Calif., Los Angeles—CLUB—P. R. Williams, archt., Stock Exch. Bldg., 4 story and basement, 100 x 100 ft., rein.-con., 28th St. and Paloma Ave., from W. Slater Co., 2314 Santa Fe Ave., for Y. M. C. A. Approximately $150,500. Noted Jan. 14.

Calif., Pasadena — CITY HALL — City Directors, Jan. 4, 3 story and basement, 50 x 352 ft. main section 100 x 100 ft. dome, 200 ft. high and two 63 x 188 ft. wings, brick, steel and rein.-con. city hall, from Orndorff Constr. Co., 351 North Western Ave., Los Angeles, approximately $652,000. Noted Dec. 10.

CONTRACTS AWARDED

N. H. Nashua—STORE—C. H. Avery Co., 50 Factory St., 5 story and basement, 75 x 95 ft., brick, to D. F. Holt & Son, 112 Vine St. Archts. est. $175,000. Noted Dec. 17.

Mass., Hyannis—HOTEL—H. T. Collette, c/o H. A. Lewis, archt., 75 Westminster St., Providence, will build 3 story and basement, brick and stucco hotel. $150,000. Work will be done by separate contracts. Noted Dec. 17.

Mass., Malden (br. Boston) — APARTMENT — Medford Real Estate Co., 69 Ashford St., Medford, will build brick apartment, 213-219 Main St., here, by day labor. $150,000. Private plans.

N. Y., Bronxville (Ind. br. Yonkers)—OFFICE—Lawrence Realty Co., c/o Walker & Gillette, engrs. and archts., 128 East 37th St., New York City, 2 story, 150 x 200 ft., brick, steel and stone, plain foundation, Station Plaza, here, to Cuzzi Bros., 10 South 2nd Ave., Mt. Vernon. Archts. est. $200,000. Noted Dec. 17.

N. Y., Brooklyn — APARTMENTS — S. Ageloff, c/o B. Drieser, engr. and archt., 153 Remsen St., will build 6 story, 80 x 100 ft., Willoughby and Throop Aves., also 5 story, 80 x 100 ft., Hart St. and Throop Ave., both brick, steel and stone, plain foundations. Work will be done by separate contracts.

N. Y., Brooklyn—BANK and OFFICE—City Savings Bank, 1 Lafayette Ave., altering, brick, steel and stone, plain foundation, Lafayette Ave., to W. Kennedy Constr. Co., 215 Montague St. Archts. est. $225,000.

N. Y., Buffalo—MARKET—Commissioner Parks & Buildings, City Hall, rein.-con., brick and steel, Baily Ave., to F. C. Hanssel, Ellicott Sq. Bldg., $226,000. Noted Jan. 7.

N. Y., Jamaica—APARTMENT—Dickel Constr. Co., c/o Shampan & Shampan, engrs. and archts., 188 Montague St., Brooklyn, will build 100 x 200 ft., brick, steel and stone, plain foundation, Jamaica Ave. and 77th St., by day labor. $500,000.

N. Y., New York—APARTMENT—Duo Building Corp., c/o G. G. Miller, engr. and archt., 1482 Bway., will build brick, steel and stone, plain foundation, Washington Ave. and 180th St., by day labor. $300,000.

N. Y., New York — APARTMENTS — Silberk Realty Corp., c/o I. L. Cransman, engr. and archt., 370 East 149th St., will build 5 story, 88 x 100 ft., 184th St. near Park Ave., also 5 story, 187th St. near Washington Ave., both brick, steel and stone, plain foundations, by day labor. $175,000 each.

N. J., Newark—OFFICE—Newark Professional Building Co., 126 Clinton Ave., D. Kraker, pres., 10 story, brick, steel and stone, plain foundation, Lincoln Park, to H. Kruvant, 222 Clinton Ave. Archts. est. $500,000.

Pa., Chester — THEATRE and APARTMENT — C. S. Adams, archt., 2038 Spruce St., 4 story and basement, 140 x 150 ft., rein.-con., brick and steel, 3rd and Central Sts., to J. P. Hallahan, 2315 Walnut St. Archts. est. $500,000. Owner's name withheld. Noted Nov. 19.

Pa., Lewistown—BANK—Russell Natl. Bank, East Market and Brown Sts., S. B. Russell, pres., 1 story and basement, 31 x 135 ft., brick, stone and granite, East Market St., to Central Constr. Co., 206 Pine St., Harrisburg. Archts. est. $150,000. Noted May 5.

Pa., Phila. — CLUB and HOTEL — Emergency Aid of Pennsylvania, J. W. Martin, secy., 21st and Walnut Sts., 14 story and basement, 54 x 85 ft., rein.-con., brick and steel, plain foundation, 20th and Sansom Sts., to Wark Co., 1600 Walnut St. Archts. est. $850,000.

Pa., Phila. — EXHIBITION — Textile Imperial Exhibit Assn., 533 Chestnut St., 1 story, octagonal, 840 ft. diam., Palace of Fashion, stucco and steel, wood pile foundation, Broad and Pattison Sts., to Barras Constr. Co., 366 Madison Ave., New York City, N. Y.

Pa., Scranton—Y. W. C. A., 4 story and basement, 80 x 160 ft., brick and stone addition, incl. swimming pool, to M. C. Tuttle Co., 862 Park Square Bldg., Boston, Mass.

Pa., Sharon—STORE and APARTMENT —E. E. Anderson, general contract 4 story and basement, irregular shaped store and apartment, to A. Wishart & Sons, Sharon. Archts. est. $150,000.

Md., Baltimore — GARAGE — Lake Dr. Garage Co., c/o G. S. Childs, archt., 306 St. Paul St., 2 story, 100 x 212 ft., rein.-con. and brick, plain foundation, Madison Ave. and Whitelock St., to B. F. Bennett Building Co., 123 South Howard St., $150,000.

La., New Orleans — OFFICE — W. E. Spink, archt., Canal-Commercial Bldg., superstructure Pere Marquette Bldg., 18 story, brick and terra cotta, Baronne and Common Sts., to Ferro Constr. Co., 3rd and Elm Sts., Cincinnati, O., for Chicago Syndicate incl. E. M. Loeb, J. S. Joy, et al. $858,500. Noted Dec. 24.

O., Cleveland — GARAGE — A. A. Kerr, 1301 Chester Ave., 5 story and basement, 100 x 130 ft., rein.-con. and brick, East 12th St., to Crowell & Littel Constr. Co., Hanna Bldg. Archts. est. $300,000.

O., Dayton—CLUB—Fraternal Order of Eagles, H. W. Osler, treas., 320 South Main St., 2 story, 75 x 120 ft., brick and rein.-con., plain foundation, South Main St., to Industrial Building Co., Reibold Bldg., $175,000.

Ind., Richmond—THEATRE——M. Remley Corp., 2 story and basement, 70 x 160 ft., rein.-con., brick and steel, concrete pile foundation, to United Studios Co., 28 West Lake St., Chicago. $150,000, cost plus percentage basis. Noted Jan. 7.

Mich., Detroit — HOTEL — Bonnah & Chaffee, archts., 300 Barlum Bldg., 21 story and basement, 100 x 120 ft., rein.-con., brick and steel, wood pile foundation, Cadillac Sq., to O. Misch Co., 159 East Columbia Ave., for J. J. Barlum, 206 East Grand River Ave. Archts. est. $2,500,000. Noted Dec. 10.

Ill., Aurora — BANK and OFFICE — Weary & Alford, archts., 1923 Calumet Ave., 13 story, 70 x 80 ft., rein.-con., steel and terra cotta, Main St. and Bway., to F. M. Siesel Co., 160 Ogden Ave., Milwaukee, Wis. Archts. est. $400,000. Noted Aug. 27.

Minn., Duluth—BUSINESS—L. F. Bowman, consult. archt., Exch. Bldg., 2 story and basement, 25 x 140 ft., rein.-con., brick and steel, concrete pile foundation, Superior St. and 1st Ave. W., to H. Fawcett, 31 Mesabe Blk., for A. H. Polinsky & E. R. Riheneck. $175,000.

Neb., Omaha—THEATRE—A. H. Blank, 300 Commonwealth Bldg., Des Moines, Ia., structural steel contract 5 story and basement theatre, 20th and Farnam Sts., here, to Omaha Steel Wks., 4802 Leavenworth St., $75,000. Noted Oct. 29.

Mo., St. Louis—STORE—McCrory Stores Corp., 1107 Bway., New York City, N. Y., general contract 4 or 10 story and basement, 104 x 120 ft., rein.-con., brick, stone and steel, 6th and St. Charles Sts., to Wimmer Constr. Co., 916 Victoria Bldg. Noted Dec. 31.

Tex., San Antonio—SALES, STORE and WAREHOUSE—A. A. Herff, archt., Savings and Loan Bldg., general contract, 2 story, 125 x 150 ft. and 1 story, 80 x 150 ft., rein.-con. and brick, East Huston and Chestnut Sts., here, to E. W. Oeffinger, Maverick Bldg., for Crane Co., 836 South Michigan Ave., Chicago, Ill. Noted Dec. 17.

Tex., San Antonio — THEATRE — W. J. Lytle, Princess Theatre Bldg., terra cotta for 5 story and basement, rein.-con., stone, brick and steel, West Houston St., to Western Terra Cotta Co., 1st and Franklin Sts., Kansas City, Mo.; structural steel to Virginia Bridge & Iron Wks., Roanoke, Va., for Famous Players-Lasky Corp. et al. Archts. est. approximately $150,000. Noted Jan. 7.

Calif., Berkeley — THEATRE — M. T. Jorgensen, 110 Sutter St., San Francisco, general contract rein.-con., University and San Pablo Aves., to Barrett & Hilp, 525 Harrison St., San Francisco, for Golden State Theatre, Inc. $125,000. Noted Dec. 31.

Calif., Los Angeles—THEATRE and OFFICE—L. A. Smith, archt., Lily-Fletcher Bldg., 2 story, rein.-con., 1,500 seating capacity, Maplewood and Western Aves., to Barkelew & Gould, 401 Glendale Blvd., for West Coast Theatres, Inc., Film Exchange Bldg. Approximately $175,000. Noted Nov. 12.

Calif., Oakland—STORE and OFFICE—S. H. Kress & Co., 114 5th Ave., New York City, N. Y., 4 story and basement, rein.-con., 14th and Bway. Sts., to Clinton Constr. Co., 923 Folsom St., San Francisco, $250,416.

Buildings—Educational, Religious

PROPOSED WORK

Mass., Gardner — CHURCH — Sacred Heart Church, Cross St., plans new church, Central St. $150,000 or more. Engineer and architect not selected.

Mass., Worcester — SCHOOLS — City, Dept. Pub. Buildings, City Hall, plans schools, Granite, May and Thorndyke Sts. $150,000 each. Engineer and architect not selected.

R. I., Olneyville (Ind. sta. Providence) — CHURCH — Tabernacle Church, plans stone church. $250,000. Woodbury & Stewart, 581 Boylston St., Boston, archts.

Conn., Farmington — HIGH SCHOOL — Bd. Educ., H. C. Ney, 1st Selectman, plans new high school, Farmington Ave. $250,000. Engineer and architect not selected.

Conn., Hartford — CHURCH — St. Anthony's Church, A. Kelley, pastor, having plans prepared by D. A. Guerriero, 1029 Main St., 2 story and basement, brick and steel, Market and Talcott Sts. $150,000.

Conn., Hartford—CHURCH—St. John's Parish, W. T. Hooper, pastor, had plans prepared by B. Goodhue, 2 West 47th St., New York City, brick and stone addition, Farmington Ave. $150,000.

N. Y., Alexandria Bay—HIGH SCHOOL —Bd. Educ., having plans prepared by Tooker & Marsh, engrs. and archts., 101 Park Ave., New York City, 2 story, brick, steel and stone, plain foundation. $250,000.

N. Y., Buffalo — CHURCH — Roman Catholic Congregation, E. S. Fenwick, member com., 1746 Hertel Ave., having preliminary plans prepared church and school, Parkside Ave. $160,000. Engineer and architect's names withheld.

N. Y., New York—SCHOOL—New York University, Burnside Ave., plans School of Commerce, Accounts & Finance, Wooster and 3rd Sts. $1,500,000. Engineer and architect not announced.

N. J., Trenton—HIGH SCHOOL—City Comn. having plans prepared by E. Sibley, Palisades, Senior High School, 1 story, Chambers and Greenwood Aves. To exceed $1,000,000.

Pa., Beaver Falls — CHURCH — First Presbyterian Church, Lincoln Pl., having preliminary plans prepared by J. P. Piper, Oliver Bldg., Pittsburgh, and B. G. Goodhue, associated archt., 2 West 47th St., New York City, N. Y., 1 and 2 story and basement, 100 x 166 ft., stone, here. $250,000.

Pa., Greensburg — COMMUNITY — First Reformed Congregation having plans prepared by E. B. Lee, Chamber of Commerce Bldg., Pittsburgh, 2 story and basement, brick and tile, Maple Ave. $175,000.

Pa., Johnstown—HIGH SCHOOL—J. D. Rutledge, pres. Bd. Directors School Dist., 601 Swank Bldg., rejected bids Jan. 11, Garfield High School, 3 story and basement, 260 x 300 ft., brick and steel, Morrellville St. $750,000. J. E. Adams, Nemo Bldg., archt. Noted Dec. 3.

See proposal advertisements on page 116, Advertising Section.

Buildings, Educational, Religious (Cont.)

Pa., Knoxville (Pittsburgh P. O.) — SCHOOL—Bd. Educ. having plans prepared by P. C. Dowler, Magee Bldg., Pittsburgh, 2 story and basement, irregular shaped, brick and hollow tile, Charles and Virginia Aves. $250,000.

Pa., Phila. — GYMNASIUM — See "Unclassified."

Pa., West Homestead (Homestead P. O.) —SCHOOL—School Dist. having plans prepared by A. G. Wickerham, 135 8th St., Homestead, 2 story and basement, 96 x 128 ft., brick and hollow tile school. $200,000.

Pa., Williamsport—HIGH SCHOOL—Bd. Educ. having plans prepared by Gilbert & Betelle, 20 Branford Pl., Newark, N. J., Thadius Stevens Junior High School, 2 story and basement, irregular shaped building. $400,000.

Pa., Williamsport—SCHOOL—Loyalsock Twp. School Bd., purchased 4 acre site and plans 3 story and basement, 120 x 130 ft., brick, on Warrensville Rd. between Four Mile Dr. and Mountoursville Highway, near Faxon. $400,000. Engineer and architect not selected.

N. C., Wilmington — CHURCH — First Presbyterian Church, A. D. P. Gilmour, pastor, having plans prepared by H. L. Cain, 12 North 9th St., Richmond, Va. rebuilding church recently destroyed by fire. $300,000.

Ga., Atlanta — SCHOOLS — Plans election in March or April $2,000,000 bonds, for schools. W. Sims, mayor.

Fla., Titusville—SCHOOL—Brevard Co., election soon $250,000 bonds, school, for Bd. Pub. Instruction.

La., Homer—HIGH SCHOOL—Claiborne Parish Bd. Educ. soon takes bids 3 story, rein.-con., brick and stone high school. $175,000. J. W. Smith, Monroe, archt. Noted Sept. 3.

La., Monroe—SCHOOL—Ouachita Parish election Feb. 2, $800,000 bonds school building, and new filtration plant, etc.

O., Alliance — LIBRARY and MUSIC HALL—Mount Union College having plans prepared by Walker & Weeks, 1900 Euclid Bldg., Cleveland, 2 story, brick library and music hall. $200,000.

O., Cleveland—SCHOOLS—Bd. Educ., F. G. Hogan, dir., having preliminary plans prepared by G. M. Hopkinson, Auditorium Garage Bldg., two 2 story and basement, brick, steel and concrete schools, one at East 185th St. and Muskoka Ave., $475,000, and Charles Dickens School, $150,000.

Ind., Mishawaka — SCHOOL — Freyermuth & Maurer, archts. and engrs., 654 Associates Bldg., South Bend, takes bids about Mar. 1, 2 story, 112 x 162 ft., brick and stone, here, for City. $150,000.

Mich., Detroit — CHURCH — Central Woodward Christian Church, N. Bentley, chn. building com., 1160 Chicago Blvd., having plans prepared by G. D. Mason & Co., 508 Griswold St., 3 story and basement, rein.-con., brick and steel, plain foundation, Woodward and Josephine Aves. $500,000.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., having plans prepared by McGrath, Dohmen & Page, archts., 2331 Park Ave., 2 story and basement, rein.-con., brick and steel, plain foundation, Nevada and Lumpkin Aves. $150,000.

Ill., Hillside — SCHOOL, MONASTERY, CHURCH, etc.—Servite Fathers Monastery, c/o A. Brosnahan, pastor, 3121 West Jackson Ave., Chicago, takes bids about Mar. 7, group 2 and 3 story and basement, brick and rein.-con. buildings, here. $200,000. O'Meara & Hills, Arcade Bldg., St. Louis, Mo., archt.

Wis., Appleton — GYMNASIUM — Lawrence College, H. W. Wreston, pres., having plans prepared by Childs & Smith, North Michigan Ave., Chicago, Ill., rein.-con., brick and steel gymnasium. $250,000.

Wis., Madison — FIELD HOUSE — University of Wisconsin, c/o J. Phillips, bus. mgr., plans brick, rein.-con. and steel field house. $200,000. Engineer and architect not selected.

Wis., Madison — LIBRARY — University of Wisconsin, c/o J. H. Phillips, bus. mgr., plans 4 story, rein.-con., brick and stone addition, plain foundation. $150,000. Engineer and architect not selected.

Wis., Milwaukee — CONTINUATION SCHOOL — Bd. Industrial Educ., 7th and Prairie Sts., having plans prepared by Van Ryn & DeGelleke, 114 Grand Ave., (3rd unit (6 story and basement, 143 x 266 ft., brick and rein.-con., plain foundation, 6th and State Sts. $1,000,000.

HIGHWAY—OREGON

Bids were opened by State Highway Comm., Salem, for constructing 12.54 mi. Hereford-Mill Gulch Section Baker-Unity Highway, Baker Co., (A) H. E. Cornell, 1403 Worm Springs Ave., Boise, Idaho (awarded contract); (B) Triangle Construction Co., Spokane, Wash.; (C) Drummins & Toller. The unit bids are as follows:

	A	B	C
Clearing and grubbing (lump sum)	$2,000 00	$2,000 00	$2,000 00
44,000 cu.yd. common excavation	.23	25	25
65,000 cu.yd. intermediate excavation	44	40	42
66,000 cu.yd. solid rock excavation	.85	96	90
98,000 cu.yd. overhaul	.04	05	05
140 cu.yd. Class A concrete	26 00	27 00	32 00
100 cu.yd. Class B concrete	23 00	24 00	30 00
280 cu.yd. dry rubble	5 00	4 00	4 50
150 cu.yd. riprap	2 00	3 00	2 50
3,350 cu.yd. earth cushion	35	40	50
118 ft. b.m. lumber and timber	65 00	60 00	70 00
10,400 lb. metal reinforcing	08	09	10
1,100 lin.ft. 18-in. concrete culvert pipe	2 50	2 65	3 00
710 linft. 24-in. concrete culvert pipe	3 50	3 83	4 30
310 lin.ft. 36-in. concrete culvert pipe	6 00	6 55	7 50
400 lin.ft. 18-in. concrete siphon pipe	2 60	2 80	3 10
80 lin.ft. 36-in. concrete siphon pipe	6 25	6 80	7 70
Extended totals	$126,690	$133,694	$135,224

Wis., Milwaukee—SCHOOL—St. Thomas Aquinas Congregation, 676 36th St., having plans prepared by Eschweiler & Eschweiler, 210 Mason St., 2 story and basement, brick and tile, plain foundation, 34th St. $200,000.

Wis., Oshkosh—CHURCH—Sacred Heart Congregation, 1318 6th St., having plans prepared by E. Brielmaier & Sons Co., 432 Bway., Milwaukee, 2 story and basement, brick and stone, plain foundation, Knapp St. $185,000.

Wis., St. Nazianz — COLLEGE, etc. — Salvation Fathers, have preliminary plans prepared by E. Brielmaier & Sons Co., 432 Bway., Milwaukee, 3 story and basement, rein.-con. and brick college, also power plant and laundry. $300,000.

Wis., Wauwatosa—SCHOOL—Bd. Educ., R. Baird, pres., having preliminary plans prepared by Herbst & Kuenzli, 114 Grand Ave., Milwaukee, 3 story and basement, 37 x 135 ft., brick and tile addition, plain foundation, Windsor Ave. $100,000-$150,000.

Ia., Decorah — GYMNASIUM — Luther College had plans prepared by Hanson & Altfillisch, Decorah, 3 story and basement, rein.-con. and brick gymnasium. $150,000.

Ia., Mt. Pleasant — SCIENCE — Iowa Wesleyan College, H. S. Smith, pres., having plans prepared by H. O. Eckland, McKinney Bldg., Moline, Ill., 3 story and basement, rein.-con., brick and stone. $250,000. Noted Aug. 27.

Minn., Eveleth—HIGH SCHOOL—Secretary Eveleth Bd. Educ., takes bids in March, 3 story, 98 x 160 ft., rein.-con., brick and tile addition, wood pile foundation. $200,000. E. H. Berg, Eveleth, engr. and archt.

Kan., Lindsborg — MUSIC and FINE ARTS—Bethany College having preliminary plans prepared music and fine arts building. $150,000. Engineer and architect not selected.

S. D., Aberdeen — GYMNASIUM — State Normal School, c/o Bd. of Regents, T. W. Dwight, pres., having plans prepared by J. W. Henry, Aberdeen, 3 story and basement, rein.-con., brick, tile and stone at State Normal School. $250,000.

Mo., St. Louis—CHURCH—H. P. Hess, archt., 1237 North Taylor Ave., takes bids about Jan. 29, 2 story and basement, 60 x 164 ft., rein.-con., brick and stone, Carter and Marcus Sts., for St. Engelberts Parish, c/o A. J. VonBrunn, pastor, 4740 Carter Ave. $200,000.

Ark., Pine Bluff—CHURCH—First Presbyterian Congregation, R. E. Fry, pastor, will not construct 2 story and basement, brick, stone and concrete church. Project postponed. Noted Oct. 16.

Tex., Abilene—CHURCH—Central Presbyterian Church, having plans prepared by Shephard & Wiser, R. A. Long Bldg., Kansas City, Mo., 2 story and basement, 140 x 210 ft., rein.-con., brick, stone and steel church. $250,000.

Tex., Austin — CHURCH — Central Christian Congregation, having plans prepared by R. L. White, Univ. Sta., 3 story and basement, rein.-con., brick and steel, 12th and Guadalupe Sts. $150,000.

Tex., Ft. Worth—SCHOOLS—Bd. Educ., c/o M. H. Moore, supt., 921 Jennings Ave., having plans prepared by Glasgow & Longley, 1st Natl. Bank Bldg., D. McRae Ward School, 2 story and basement, 13,000 sq.ft. floor space, 3321 Millet St. $150,000, by W. G. Clarkson & Co., 1st Natl. Bank Bldg., North Side Jr. High School, 3 story and basement, 26,000 sq.ft. floor space, North Ft. Worth St. $300,000, Arlington Heights High School, 3 story and basement, 26,000 sq.ft. floor space, $300,000, Polytechnic Jr. High School, 3 story, 26,000 sq.ft. floor space, South East Ft. Worth St. $300,000, all foregoing rein.-con., brick and stone, also takes bids about Jan. 15, Senior High School, 3 story and basement, 40,000 sq.ft. floor space, brick and terra cotta, 1003 Cannon St., $650,000.

Okla., Cordell — DORMITORY — Oklahoma Christian College having preliminary plans prepared 3 story and basement, brick and rein.-con., plain foundation, campus. $175,000. Engineer and architect not selected.

Okla., Enid—HIGH SCHOOL—Bd. Educ. had preliminary plans prepared Junior High School, 2 story and basement, 116 x 224 ft., brick and rein.-con., plain foundation, 7th Ave. $285,000 bond election in spring. Engineer and architect not selected.

Okla., Wewoka—HIGH SCHOOL—Election Jan. 28, $150,000 bonds, 2 story and basement, Okfuskey St. Tonini & Bramblett, Terminal Arcade, Oklahoma City, archts.

Calif., Beverly Hills — SCHOOL — Voted $260,000 bonds, purchasing site and constructing school.

Calif., Compton—SCHOOLS—Plans election $150,000 bonds, 1 new school and additions to present 2 schools.

Calif., Los Angeles—CHURCH—Christian Church of Los Angeles having plans prepared by H. Cross, Merchants Natl. Bank Bldg., fireproof, Pico Blvd. $150,000.

Calif., Los Angeles — CHURCH — Sixth Church of Christ Scientist, plans fireproof church, 42nd and Flower Sts. $150,000 or more. Engineer and architect not selected.

Calif., Los Angeles — SCHOOL — Bd. Educ., having plans prepared by O. R. Clark, Chapman Bldg., 2 story and basement, brick school. $150,000.

Calif., Pasadena—HIGH SCHOOL—City soon takes bids 2 story, 160 x 200 ft., stucco and rein.-con. addition to Center and Oak Knoll Junior High School. $175,000 or more. Austin & Ashley, Chamber of Commerce Bldg., Los Angeles, archts.

Calif., San Francisco—CHURCH—Roman Catholic Archbishop, 1100 Franklin St., takes bids probably in March, general contract steel and rein.-con. Masonic Ave. near Page Ave. $150,000 or more. L. J. Devlin, Pacific Bldg., archt. Steel contract awarded to Schrader Iron Wks., 1247 Harrison St.

Ont., Toronto—SCHOOL—Bd. Educ., 155 College St., plans 2 story and basement, rein.-con., brick and steel, plain foundation, in vicinity of Victoria, George and Duke Sts. $200,000. Private plans.

Ont., Toronto—TECHNICAL SCHOOL—Bd. Educ., 155 College St., having plans prepared by C. E. Dyson, 155 College St., 3 story and basement, rein.-con. and brick, timber, plain foundation, West End. $1,000,000.

BIDS DESIRED

Conn., Torrington—CHURCH—St. Peters Italian Church, A. Bonforti, pastor, taking bids 1 story and basement, brick and steel, West Main St. $150,000. D. A. Guerriero, 1029 Main St., Hartford, archt.

Conn., Waterbury — CHURCH—Immaculate Conception Church, W. J. McGurk, pastor, taking bids 1 story and basement, brick, steel and stone, West Main St. $250,000. Maginnis & Walsh, 100 Boylston St., Boston, Mass., archts. Noted Feb. 19.

N. Y., Wellsville—HIGH SCHOOL—Feb. 16, by Bd. Educ., brick, steel and stone, plain foundation. $300,000. Tooker &

See proposal advertisements on page 116, Advertising Section.

Buildings—Educational, Religious (Con'd) Marsh, 101 Park Ave., New York City, archts. J. F. Musselman, 101 Park Ave., New York City, engr.

N. J., West Englewood—SCHOOL—Jan. 29, by Bd. Educ. Teaneck Twp., School 2, Teaneck Rd., Teaneck, addition to Elementary School, here. Hacker & Hacker, 1012 Palisades Ave., Palisade, engrs.; adv. E. N.-R. Jan. 14.

Pa., Lewistown—CHURCH—Mar. 15, by Trinity Reformed Church Bd., Oak St., H. E. Knepp, chn., and J. E. Rupley, pastor, 2 story and basement, 80 x 120 ft., stone church incl. parsonage, boiler room, auditorium, etc. $150,000. Bolton & Son, Schaff Bldg., Phila., archts.

Md., Owings Mills—DORMITORY—Feb. 3, by W. W. Emmart, archt., Union Trust Bldg., Baltimore, 2 story and basement, 60 x 150 ft., dormitory, here, for Rosewood State Training School. $150,000.

La., Baton Rouge—SCHOOLS—Mar. 3, by Building Com. East Baton Rouge Parish School Bd., Baton Rouge High School, with swimming pool, etc., McKinley High School, and Bernard Terrace School, all brick and stone. Noted May 28 and Nov. 12.

La., New Orleans—SCHOOL—Feb. 12, by E. A. Christy, supervy. archt., City Hall Annex, McDonough No. 9 School, 3 story, brick and stone, Rocheblave, Tonti, D'Abadie and Onzago Sts., for Orleans Parish School Bd. $250,000. Noted Nov. 12.

Ind., Terre Haute—SCHOOL—Feb. 1, by Secretary School Bd., Administration Bldg., general contract 2 story and basement, 310 x 330 ft., brick and plain foundation, 25th and Poplar Sts. $550,000. Johnson, Miller, Miller & Yeager, 30 North 5th St., archts. and engrs. Noted Jan. 7.

Mich., Ferndale (br. Detroit)—SCHOOLS—Feb. 22, by G. Damon, secy. Bd. Educ. Dist. 9, 1 story, rein.-con. and brick, plain foundation, Nine Mile Rd.; also 1 story, brick and concrete addition to Woodward and Nine Mile Rd. School; and brick and concrete addition to Wilson School, Woodward Ave. $160,000. H. T. Keyes, 635 Free Press Bldg., Detroit, archt.

Mich., Milan—HIGH SCHOOL—Feb. 1, by Warren Holmes-Powers Co., archts., Lansing, 2 story and basement, 90 x 146 ft., rein.-con., brick and steel, plain foundation, here, for Bd. Educ., G. A. Dennison, secy. $150,000.

Minn., Minneapolis—BOTANY—Jan. 26, by State Bd. Administration & Finance, Capitol Bldg., St. Paul, 3 story, rein.-con., brick, stone and terra cotta at University, here. $200,000. C. H. Johnston, 715 Capital Bank Bldg., archt. Noted Oct. 1.

Mo., University (Sta. St. Louis)—SCHOOL — Jan. 27, by Bd. Educ., 6701 Delmar Blvd., 2 story and basement, brick and concrete additions to Flynn Park and Pershing Schools. Ferrand & Fitch, 6188 Delmar Blvd., archts. Noted Dec. 24.

BIDS RECEIVED

Pa., Johnstown—HIGH SCHOOL—Bd. Educ., Garfield Junior High School, 4 story and basement, 65 x 404 ft., from R. R. Kitchen Co., Bacmar Pl., Wheeling, W. Va., $686,000. Noted Nov. 5.

D. C., Wash.—HIGH SCHOOL—Dist. Comrs., Jan. 12, Randall Junior High School, from King Lumber Co., Charlottesville, Va., $193,000. Noted Jan. 7.

Calif., Los Angeles—HIGH SCHOOL—Bd. Educ., general contract Foshay Junior High School, 3 story, 55 x 150 ft., brick, from H. W. Schleuter, Black Bldg., $110,000. Noted Dec. 3.

CONTRACTS AWARDED

N. Y., New York—SYNAGOGUE—Park Ave. Temple, J. Freedman, pres., c/o Deutsch & Schneider, engrs. and archts., 35 Maiden Lane, brick, steel and stone, plain foundation, to Lustbader Constr. Co., 101 Park Ave. Archts. est. $400,000.

N. J., Camden — NURSES HOME — Lackey & Hettel, archts., 5 Hudson Ave., 5 story and basement, 45 x 115 ft., and 56 x 105 ft., rein.-con. and brick nurses home and childrens quarters, plain foundation, Mt. Ephraim Pike and Atlantic Ave., to T. H. Gibbs Constr. Co., Corn Exch. Bldg., Phila., Pa., for West Jersey Homeopathic Hospital. Archts. est. $300,000. Noted Nov. 19.

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, 4 story and basement, 65 x 169 ft., rein.-con. and brick, plain foundation, Spring Garden St. west of 13th St., general contract, to W. Langhorne, 10 South 18th St., $465,787; heating, to Philadelphia Piping & Eng. Co., 1605 Rockland St. $27,500. Noted Jan. 14.

Pa., Pittsburgh—CHURCH—St. Francis Xavier Congregation, general contract 1 story and part basement, 64 x 170 ft. church, California Ave., to Helmer & Reznor, Empire Bldg. Archts. est. $200,000.

Md., Baltimore — SYNAGOGUE — Beth Tfiloh Congregation, c/o F. A. Fletcher, archt., 407 North Charles St., 1 story, 71 x 80 ft., steel and stone, plain foundation, Garrison and Dalrymple Aves., to Price Constr. Co., Maryland Trust Bldg., $165,000. Noted Dec. 17.

D. C., Wash. — HIGH SCHOOL — Dist. Comrs., Dist. Bldg., John H. Francis Junior High School, to C. H. Tompkins, 1612 Park Rd., $414,240. Noted Jan. 14.

O., Cleveland—CHAPEL and CREMATORY—W. R. Hopkins, city mgr., City Hall, 1 and 2 story, 91 x 112 ft., brick, steel and granite, Highland Park, to Craig-Curtiss Co., 4614 Prospect Ave. Archts. est. $250,000. Noted Nov. 19.

O., Vermilion — HIGH SCHOOL — Bd. Educ., C. A. Trinter, clk., 2 story and basement, 115 x 140 ft., brick, steel and concrete to Fravel Constr. Co., 8 East Long St., Columbus. Noted Dec. 24.

Ill., Chicago—HIGH SCHOOL—Catholic Bishop of Chicago, 740 Cass St., St. Leo High School, 3 story and basement, 26 x 112 ft., 901 West 79th St., to J. R. O'Connor, 79th and East End Ave. Archts. est. $650,000.

Kan., Kansas City — HIGH SCHOOL — Bd. Educ., Rose Dale High School, 3 and 4 story and basement, 115 x 170 ft., brick, steel, stone and rein.-con., to E. Drier & Son, Peoples Natl. Bank Bldg., $215,984. Noted Dec. 31.

Mo., St. Louis—BIOLOGY—Jamieson & Spearl, archts., Arcade Bldg., 3 story, 54 x 214 ft. with 45 x 47 ft. wing, rein.-con., brick and stone, campus, to Woermann Constr. Co., Syndicate Trust Bldg., for Washington University, Forsythe and Skinker Blvd. Archts. est. $250,000. Noted Dec. 17.

Mo., St. Louis—CHURCH, SCHOOL and CONVENT, etc. — St. Cecelia Catholic Parish, c/o B. J. Benton, pastor, 2 and 3 story, rein.-con., brick and stone, Louisiana St., to Kloster & Co., 5215 South Grand Blvd.

Ont., Windsor — SCHOOL — Separate School Bd., 616 Pierre Ave., general contract 2 story and basement, rein.-con., brick and steel, plain foundation, Banwell Ave., to E. Clark Ltd., 200 Banwell Ave., $109,000. Noted Nov. 12.

Federal Government Work

BIDS DESIRED

N. Y., St. George—Acetylene Flashers—Feb. 1, by Supt. Lighthouses, 50 acetylene flashers or automatic devices to control flow of acetylene gas for light and eclipse periods of occulting acetylene lights on buoys and beacons.

Mo., St. Louis — Hull — Feb. 16, by Mississippi River Comn., at office of Secretary, 1311 International Life Bldg., steel hull for steamer "Mississippi"; adv. E. N.-R. Jan. 21.

Nebraska and Wyoming—Valves, etc.—Feb. 1, by E. Mead, comr. Bureau Reclamation, Denver, two 24 in. drum gate regulating valves for Guernsey Dam, and two 24 in. regulating needle valves for Minatare Dam, North Platte Project, Nebraska-Wyoming; adv. E. N.-R. Jan. 21.

Calif., Mare Island — Hospital — Spec. 5105—Mar. 3, by Bureau Yards & Docks, Navy Dept., Wash., D. C., rein.-con., brick and steel hospital buildings at Navy Yard, here. L. E. Gregory, chief of Bureau; adv. E. N.-R. Jan. 21. Noted Oct. 22.

T. H., Hilo — Breakwater — Mar. 15, by U. S. Engineer Office, Honolulu, constructing breakwater in harbor, here; adv. E. N.-R. Jan. 21.

BIDS RECEIVED

D. C., Wash.—Dock—Spec. 5169—Bureau Yards & Docks, Navy Dept., Jan. 13, creosoted timber fender piles and superstructure for dock, Naval Air Station, Anacostia, here, from Concrete Oil Tank Co., 519 Mills Bldg., (1) $6,849 (2) $6,500 (3) $20. Noted Jan. 7.

Ky., Louisville—Piling—U. S. Engineer Office, P. O. Box 72, 6,800,000 lb. steel sheet piling for Dams 46, 50, 52 and 53, in Ohio River, from Carnegie Steel Co., Carnegie Bldg., Lot A $50,338 Lot C $33,073 and Lot D $39,681. Lot B rejected. Will readvertise. Noted Dec. 24.

Nebraska—Gates—Bureau Reclamation, Denver, Colo., Dec. 3, 50 x 50 ft. steel regulating gate and 1 steel gate frame for Guernsey Dam, North Platte, Nebraska-Wyoming, also 20 x 26 ft. steel penstock gate and steel gate frame from Omaha Steel Wks., 4802 Leavenworth St., Omaha, $39,714 and $9,108 respectively; pier plates, drum chambers, etc. also two 14½ x 64 ft. steel drum gates, from Dravo Contr. Co., Neville Island, Pittsburgh, Pa., $39,252. Noted Oct. 29.

CONTRACTS AWARDED

Wyoming—Bridge—J. W. Johnson, dist. engr. Bureau Pub. Roads, Dept. Agriculture, 301 Custom House Bldg., Denver, Colo., improving Jackson Park Highway, Natl. Forest Rd. Project Sect. 2 (bridge) in Teton Natl. Forest, here, to Monarch Eng. Co., West Colfax and Larimer Sts., Denver, Colo., $41,950. Noted Dec. 24.

New Mexico—Bridge—J. W. Johnson, dist. engr. Bureau Pub. Roads, Dept. Agriculture, 301 Custom House Bldg., Denver, Colo., improving Datil Reserve-Dry Creek Natl. Forest Rd. Project, San Francisco River Bridge Section, here, to Salle Constr. Co., Pueblo, Colo., $41,730. Noted Nov. 12.

Ariz., Yuma—Power Plant—Bureau Reclamation, Dept. Interior, constructing buildings, foundations, machinery, etc., for siphon drop power plant, Yuma Project, Ariz.-Calif., to C. Olcester, Yuma, $76,673. Noted Oct. 15.

Calif., San Diego—Dolphins—Spec. 5216—Bureau Yards & Docks, Navy Dept., Wash., D. C., replacing and reinforcing dolphins, here, to Barclay & Schaniel, 2358 Columbia St., $9,175.

FEDERAL POWER COMMISSION

Application for Licenses and Permits

Applications

678—Tahoe Electric Power Co., Al Tahoe, Calif.—Wants license power development in Cold Creek, Tahoe Natl. Forest Eldorado Co. All above constructed with exception small dam and reservoir at Star Lake.

679—Southern California Edison Co., 306 West 3rd St., Los Angeles—Wants license constructing transmission line in San Bernardino Co., Angeles Natl. Forest.

680—South Carolina and Georgia—Twin City Power Co. and Twin City Power Co. of Georgia, Waterford, N. Y.—Wants preliminary permit dam about 2 mi. east of Modoc, in Savannah River, McCormick Co., South Carolina, and Lincoln Co., Georgia.

681 — Illinois Northern Utilities Co., Dixon, Illinois—Wants preliminary permit for dam with appurtenant power structures in Rock River, near Byron, Ogle Co.

682 — West Florida Power Co., Tallahassee, Fla.—Wants preliminary permit power development in Ocklocknee River, Leon and Gadsden Counties.

683—Prairie Power Co., Prairie City, Ore.—Wants preliminary permit constructing 2 earth dams with power appurtenances in Strawberry and Onion Creeks, Grant Co.

684 — H. A. Spalding, Hazard, Ky. — Wants preliminary permit power project in Obey, Obed Rivers, and Big South Fork Cumberland River, in Overton, Scott and Morgan Counties, Tenn.

685—Moorpark-Conejo Irrigation Dist., Moorpark, Calif.—Wants preliminary permit dam with appurtenant power works, in Sespe and Piru Creeks, Ventura Co.

Unclassified

PROPOSED WORK

Docks — Buffalo, N. Y. — City Council, Municipal Bldg. making preliminary plans constructing docks and dredging at foot Michigan St. To exceed $200,000. C. E. P. Babcock, Municipal Bldg., engr.

Generators and Air Compressors—Kings Park, N. Y.—State Hospital Comn., Albany, takes bids in March, electric generators and air compressors, for Kings Park State Hospital, here. A. W. Jones, Capitol, Albany, state archt.

Swimming Pool—North Tonawanda, N. Y.—Bd. Educ. Union Free School Dist. 2, rejected bids Jan. 8, brick swimming pool, $80,000. Will readvertise. Noted Jan. 7.

Street Lighting System, etc. — Watertown, N. Y.—Making plans street lighting system, $300,000 and improving electrical distribution system, $200,000. A. L. Mullergren, 555 Gates Bldg., Kansas City, Mo., engr.

Telephone Facilities—North Carolina—Southern Bell Telephone Co., Raleigh, plans expending $125,000 switchboards, $83,000 conduits, cable and aerial cable, $32,000 enlarging central office, new power plant, new storage batteries, ringing machine.

See proposal advertisements on page 116, Advertising Section.

Unclassified (Continued)

power, etc., in Raleigh; also improvements in Charlotte $300,000, Asheville $302,000, Greensboro $129,200, Hendersonville $38,000, Salisbury $100,000, Statesville $21,000, Winston-Salem $109,100, Wilmington $18,700, and Morganton $7,300. G. C. Cauthen, Raleigh, local mgr.

Suburban Development—Asheville, N. C.—Sunset Mountain Estates, Inc., H. Block, pres., plans residential development on Sunset and Piney Mountains, incl. hotel, roads, etc.

Amphitheatre—St. Petersburg, Fla.—J. J. Harmer & C. H. Davis, South Albany Ave., Tampa, plan amphitheatre known as Olympic Park, here. $200,000 plus.

Land Development—Ocean Springs, Miss.—See "Contracts Awarded."

Stadium—Chattanooga, Tenn.—Stadium Committee making preliminary plans concrete stadium, for City. $125,000. J. G. Gauntt, Chattanooga, engr. Noted Dec. 17.

Telephone Lines, etc.—Nashville, Tenn.—Cumberland Telephone & Telegraph Co., 186 3rd Ave. N., K. C. Hardcastle, mgr., plans expending $230,000 line extensions, new cables, etc., for city and suburbs during 1926.

Subway — Decatur, Ill. — Takes bids in spring, subway under Wabash R.R. tracks, Decatur St. $170,000. M. P. O'Brien, City Hall, engr.

Boiler and Appurtenances — Springfield, Ill. — Illinois Power Co. plans additional underground installation, copper cables. $79,800. A. D. Mackie, genl. mgr.

Gas Mains — Springfield, Ill. — Illinois Power Co. plans new feeder main in Oberlin Ave., roadway and cyclone fence around West Grand Ave. plant, etc. $46,636. A. D. Mackie, genl. mgr.

Stadium—St. Paul, Minn.—Dept. Parks, Playgrounds & Public Buildings, plans rein.-con. stadium, 20,000 seating capacity, in Dunning Field near Lexington and St. Anthony Aves. $135,000. Engineer and architect not selected.

Pipe Line—Texas—Humble Oil & Refining Co., Houston, making surveys 150 mi. pipe line from Benavides to oil fields in Webb Co., etc. $1,250,000. Private plans.

Stadium—Dallas, Tex.—Southern Methodist University c/o C. C. Selectmen, pres. and L. W. Bailey, bus. mgr., making plans rein.-con. stadium, Abilene Rd. and Mockingbird Lane. $200,000. Dewitt & Lemmon, South West Life Bldg., archts. Osborn Eng. Co., 7016 Euclid Ave., Cleveland, O., engrs. Noted Jan. 7.

Electric Transmission Line, etc.—Oklahoma—City of Fargo election Jan. 25, $22,000 bonds, distribution system in Fargo, and electric high line from Fargo to Woodward. H. G. Olmsted, Oklahoma Bldg., Oklahoma City, engrs.

Gas System — Duncan, Okla. — Election Jan. 22, $250,000 bonds natural gas system. Z. Z. Rogers, Duncan, engr.

Subways — Palo Alto, Calif. — Plans 2 subways under railroad tracks, University and Forest Aves. To exceed $25,000. J. F. Byxbee, Jr., city engr.

Ferry Slips — San Francisco, Calif. — State Bd. Harbor Comrs., Ferry Bldg., plans ferry slips, foot of Hyde St. $150,000 or more. F. G. White, c/o owner, ch. engr.

Outdoor Substation, etc.—Fort William, Ont.—Hydro Electric Power Comn. of Ontario, 190 University Ave., Toronto, plans outdoor substation, switching equipment, and transmission line, here. $280,000. F. A. Gaby, 190 University Ave., Toronto, engr.

Transmission Line—Quebec—Donnacona Paper Co. Ltd., Donnacona, plans 66,000 v. electric transmission line from Point Rouge to Donnacona. $45,000. J. A. Beauchemin, Donnacona, engr.

Pier — Cap-de-la-Madeleine, Que. — Canadian International Paper Co., Three Rivers, making plans piling with earth fill landing pier, here. $35,000. J. Bourgeois, Three Rivers, engr.

Wharf—Cap-de-la Madeleine, Que.—Dept. Pub. Wks., Ottawa, Ont., plans 200 ft. extension to wharf, here. $120,000. B. Grandmont, Three Rivers and K. M. Cameron, Ottawa, Ont., engrs.

BIDS DESIRED

Subway—New York, N. Y.—Jan. 29, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., subway Sect. 4-A, Route 78, along and under St. Nicholas from West 141st to 149th Sts.

Swimming Pool—Yonkers, N. Y.—Feb. 1, by at office Westchester Park Comn., 72 Pondfield Rd., Bronxville, rein.-con. swimming pool, at Tibbetts Brook Park, here. Contr. 78, and recirculating, filtering and sterlizing equipment plant in filter plant in connection with above. Contr. 79. J. Downer, ch. engr.; adv. E. N.-R. Jan. 21.

Swimming Pool—Atlanta, Ga.—See "Contracts Awarded."

Land Development—Ocean Springs, Miss.—See "Contracts Awarded."

Swimming Pool—Baton Rouge, La.—See "Buildings—Educational, Religious."

Wharf—Lake Charles, La.—Feb. 9, by Bd. Comrs. Harbor & Terminal Dist., 110 x 800 ft. creosoted timber wharf, with 2 railroad tracks. $300,000.

Grain Elevator—Beech Grove, Ind.—Indiana Wheat Growers Assn., H. Steen, secy., 4346 Park Ave., Indianapolis, taking bids 55 x 260 ft. grain elevator, consisting of 80 bins, 52 concrete tanks, 1,000,000 bu. capacity, here. $300,000. Elevator Constr. Co., Cincinnati, O., engrs.

Heating, etc.—Madison, Wis.—Bd. Educ., H. W. Pickford, secy., 22 West Dayton St., taking bids heating plant, incl. boiler, etc., for new East Side High School. $25,000. Noted Sept. 18 under "Buildings—Educational, Religious."

Boilers, Generators, etc. — Menomonie, Wis.—Jan. 27, by Stout Institute, B. E. Nelson, pres., two 125 hp. return tubular boilers, two 10 kw. 115 volt engine generator units and accessories, two 5 x 8 x 10 single direct acting boiler feed pumps, for power plant. C. A. Halbert, State Capitol, Madison, engr.

Subway — Milwaukee, Wis. — See "Contracts Awarded."

Swimming Pool—Los Gatos, Calif.—Feb. 1, by D. M. Winning, city clk., 40 x 70 ft. swimming pool with plumbing and filtering system, Memorial Park. To exceed $15,000. R. Wyckoff, Growers Bank Bldg., San Jose, archt. Noted Nov. 19.

Transmission Line—Fort Alexander, Man.—See "Contracts Awarded."

Panels, Filters, etc. — Wellington, New Zealand—Mar. 23, by Secretary Pub. Wks., Supplies & Tenders Bd., 5 transformer and 5 feeder automatic oil immersed circuit breaker panels, 2 synchronous condenser panels, etc. for Arapuni Power Supply, Sect. 125-Penrose Station; four 7-12 g.p.m. and one 25-40 g.p.m. oil filters, etc., for Arapuni Power Scheme, Sect. 154.

Swimming Pool—Honolulu, T. H.—See "Buildings—Commercial."

CONTRACTS AWARDED

Coal Plant — Boston, Mass. — Boston & Maine R.R., North Sta., F. A. Merrill, ch. engr., coaling plant, Mystic Wharf, to J. H. Proctor & Co., 840 Old South Bldg. Engrs. est. $500,000.

Stadium—Johnstown, Pa.—A. McKeever, supt. Parks & Public Property structural steel stadium, at the Point, bleachers, 216 ft. long on one side and 378 ft. on other, to Engstrom & Co., 15th and Warward Sts., Wheeling, W. Va., $182,180. Engrs. est. $212,000. Noted Dec. 17.

Fill—Phila., Pa.—Dept. Pub. Wks., Bureau of Engineering, 180,000 cu.yd. fill upon city owned property, Broad and Pattison Sts., to Richards Kelly Co., Inc., 349 North 57th St. at $0.74 per cu.yd., total $133,200. Noted Jan. 21.

Barges—Pittsburgh, Pa.—Equitable Gas Co., c/o Philadelphia Co., 6th Ave., general contract 10 coal barges, steel, to Dravo Contg. Co., Neville Island.

Swimming Pool — Scranton, Pa. — See "Buildings—Commercial."

Swimming Pool — Atlanta, Ga. — R. J. Spiller, Ponce De Leon Base Ball Park, will build 100 x 250 ft. swimming pool, by day labor. $60,000.

Land Development—Ocean Springs, Miss.—Brannigar Bros. Co., 160 North La Salle St., Chicago, Ill., purchased 1,200 acre site and will build roads, on development known as Gulf Hills, by day labor. Plans later waterworks, sewers, electric lights, etc. Address A. H. McElrath, Gulf Hills, Ocean Springs, engr.

Grain Elevator—Nashville, Tenn.—Nashville Warehouse & Elevator Corp. retained Stevens Eng. & Constr. Co., Buder Bldg., 7th and Market Sts., St. Louis, Mo., to design and construct 360,000 bu. capacity grain elevator of 10 circular tanks, 24 ft. diam, with head house, scales, loading and unloading belts.

Airplane Hangar—Dearborn, Mich.—A. Kahn, archt., 1000 Marquette Bldg., Detroit, 1 story, 124 x 358 ft., brick and steel airplane hangar, plain foundation, Oakwood Blvd., here, to Banbrook-Gowan Co., 4829 Woodward Ave., Detroit, for Ford Motor Co., Highland Park. Noted Dec. 17.

Subway—Milwaukee, Wis.—Chicago, Milwaukee & St. Paul R.R. Co., Union Sta., will build timber subway under railway tracks at Chicago Ave., by day labor; and 15,000 cu.yd. excav., to Schoonmaker Constr. Co., 373 Bway. Engrs. est. to exceed $25,000. Noted Jan., 1925.

Culverts — Wellington, Kan. — See "Bridges."

Ball Park — St. Louis, Mo. — Dodier Realty Co., steel and rein.-con. additions to ball park, to Steininger Constr. Co., 4829 Easton Ave. Archts. est. $500,000.

Piling — Helena, Ark. — Wharf Impvt. Dist. 1, Shrine Bldg., Memphis, Tenn., E. M. Allen, chn., piling along wharf and levee preparatory to construction river terminals, to Kaucher-Hodges Co., Shrine Bldg., Memphis, Tenn., $15,000. Noted Nov. 26.

Barge—Oakland, Calif.—Libby, McNeil & Libby, Merchants Exch. Bldg., San Francisco, 130 ft. steel barge, 40 ft. wide and 9 ft. draught, 775 ton capacity, here, to Pacific Coast Eng. Co., foot of West 14th St.

Gas Holder—Oakland, Calif.—Pacific Gas & Electric Co., 245 Market St., San Francisco, steel gas holder, 50th Ave. and Clement St., to Bartlett & Hayward Co., 200 Scott St., Baltimore, Md., $500,000.

Pier Sheds—San Francisco, Calif.—State Bd. Harbor Comn., Ferry Bldg., two 1 story, timber and concrete sheds, to D. Nordstrom, 4146 Emerald St., Oakland, $142,765. Noted Jan. 14.

Transmission Line—Fort Alexander, Man.—Manitoba Power Co. Ltd., Winnipeg, will build approximately 23 mi. transmission line, etc., here, by day labor. $150,000. E. V. Caton, c/o owner, engr.

Materials

PROPOSED WORK

Road Oil—Monmouth, Ill.—See "Streets and Roads."

BIDS DESIRED

Iron Castings—New York, N. Y.—Jan. 28 by J. Miller, pres. Manhattan Boro, Municipal Bldg., iron castings to corporation yards.

Sand Grit, etc.—New York, N. Y.—Jan. 28, by J. Miller, pres. Manhattan Boro, Municipal Bldg., 3,000 cu.yd. sand grit; 4,000 cu.yd. course aggregate; 600 tons asphaltic joint filler; 20,000 bags Portland cement; 3,000 cu.yd. concrete and paving sand; 50,000 special 5 in. granite paving blocks; and 4,000 tons inorganic dust.

Road Oil—Galesburg, Ill. — See "Streets and Roads."

Lumber, etc.—Harlan, Ia.—Jan. 25, by Auditor Shelby Co. 200,000 ft. Douglas bridge lumber, 7,000 ft. cypress piling, 3,790 ft. corrugated culvert pipe, 11,750 ft. creosoted pine piling, 16,500 ft. creosoted pine lumber, guard rail, etc.

Paving Materials—Minneapolis, Minn.—Jan. 25, by F. S. Gram, city purch. agt., 125,000 bbl. Portland cement, 4,000,000 paving bricks, 2,000 tons asphaltic cement, 300 tons paving pitch, 16,000 tons trap rock, 50,000 gal. refined tar, for City. N. W. Elsberg, city engr.

Steel Sheet Piling—Niagara Falls, Ont.—E. M. Noonan, in market steel sheet piling.

BIDS RECEIVED

Cement—Milwaukee, Wis.—Central Bd. Purchases, J. W. Nicholson, ch. buyer, Jan. 15, 20,000 bbl. more or less, portland cement, from Forrer Lime, Cement & Coal Co., foot of Humboldt Ave., at $2.80 per bbl. less 5 per cent discount.

CONTRACTS AWARDED

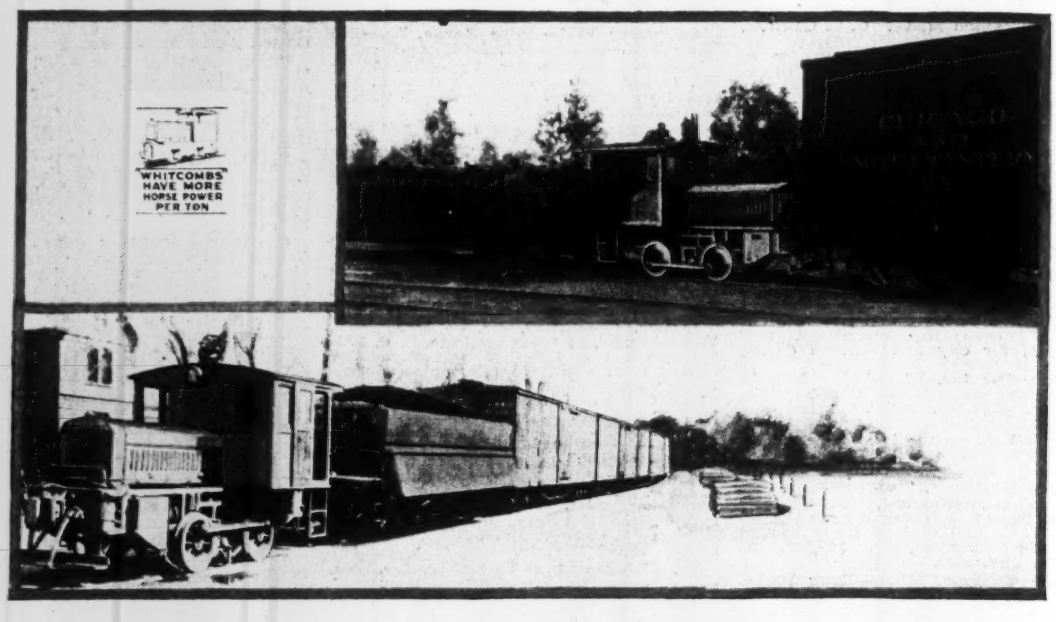
Inorganic Dust, etc.—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., 4,000 tons inorganic dust, to Limestone Products Co., 17 West 42nd St., $19,880; 20,000 cu.yd. asphalt sand, to Z. Mahoney, 557 46th St., Brooklyn, $20,600; 700,000 gal. asphaltic cement, to Standard Oil Co. of New York, 26 Bway. $46,690 and 10,000 cu.yd. ¾ in. binder stone, to New York Trap Rock Corp., 101 Park Ave., $19,300. Grand total $106,470. Noted Jan. 14.

Road Oil—Macomb, Ill.—See "Streets and Roads."

Cables, etc.—Minneapolis, Minn.—F. S. Gram, city purch. agt., material for signal system, approximately 20 mi. copper-clad cable, to Nehring Electric Co., Chicago, Ill., at $21.35 per cwt.; and 10 mi. of No. 14 cable, to Hazard Mfg. Co., 32 South Clinton St., Chicago, Ill. at $55 per M ft. Noted Dec. 31.

Sewer Pipe, Paving Blocks, etc.—Minneapolis, Minn.—F. S. Gram, city purch. agt., 400 tons sewer castings, to Crown Iron Wks. Co., 1229 Tyler St. N. E., catch basins $55.70 per ton, manholes $51.90 per ton; 500,000 vitr. paving blocks, to Ochs Brick & Tile Co., 204 South 9th St. at $17.90 per M. Noted Jan. 7.

See proposal advertisements on page 116, Advertising Section.



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CONSTRUCTION NEWS

Engineering News-Record, Jan. 28, 1926

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Hydro-Electric Power Development, Waynesville, N. C., Pigeon River Power Co. made surveys, $12,000,000.

Library, New Haven, Conn., Yale University, Sterling Memorial Library, $8,000,000.

Amphitheatre, Chicago, Ill., P. Harmon having plans prepared, $5,000,000.

Oil Pipe Line, Texas, American Refining Co. making plans for 200 mi. 12 in. pipe line, $4,500,000.

Apartment, Miami, Fla., Beverly Arms having plans prepared, $3,000,000.

Railroad, Pennsylvania, Pennsylvania R.R. Co. plans elevating road over streets, $3,000,000.

Museum, New York, N. Y., American Museum of Natural History having plans prepared, $2,500,000.

Museum, New Haven, Conn., Yale University having sketches made, $2,250,000.

Office, Cincinnati, O., Union Central Life Insurance Co. having plans prepared, $2,250,000.

Gas Pipe Line, San Antonio, Texas, Seagrove and Moody making plans for 72 mi. 12 in. gas pipe line, $2,000,000.

Bids Wanted On Big Jobs

High School, Philadelphia, Pa., Feb. 2, by Bd. Educ., $1,300,000.

Theatre, Omaha, Neb., Feb. 8, A. H. Blank, $1,000,000.

Stadium, Evanston, Ill., Northwestern University, Feb. 10, $1,000,000.

Large Contracts Let During Week

Apartment Hotel, Detroit, Mich., Weston & Ellington, engrs. & archts., to Bryant & Detwiler, $2,500,000.

Court House, Miami, Fla., Comrs. Dade Co., genl. contract to L. W. Hancock, $1,679,000. Total contracts, $2,031,000.

Nurses' Home, New York, N. Y., Mt. Sinai Hospital to Hegeman Harris Co., $1,500,000.

Gasoline Stills, Port Arthur, Texas, Gulf Refining Co. will build by day labor, $1,500,000.

Office, Hartford, Conn., Travelers Insurance Co. to Marc Eidlitz & Son, Inc., $1,500,000.

Can Factory, Sacramento, Calif., American Can Co. to Lindgren-Swinerton, Inc., $1,000,000.

Loft, New York, N. Y., S. Sinsheimer to Magoba Constr. Co., $1,000,000.

Hotel, Cleveland, O., Hotel Hollenden Co. to Craig Curtis Co., $1,000,000.

Church, Cleveland, O., Walker & Weeks, archts. for Epworth-Euclid M. E. Church to Craig-Curtis Co., $1,000,000.

PROPOSALS

For Proposals Advertised
see pages 100-104
Advertising Section

Bids Close		See Eng. News-Record
	WATERWORKS	
Jan. 29	Mt. Union, Pa.	Jan. 14
Jan. 29	Dayton, O.	Jan. 14
Jan. 29	Cincinnati, O.	Jan. 21
Jan. 30	Racine, Wis.	Jan. 14
Feb. 1	Detroit, Mich.	Jan. 28
Feb. 1	Cincinnati, O.	Jan. 28
Feb. 2	Republic, Mo.	Jan. 28
Feb. 2	St. Paul, Minn.	Jan. 28
Feb. 3	Detroit, Mich.	Jan. 28
Feb. 4	St. Louis, Mo.	Jan. 28
Feb. 5	Okolona, Miss.	Jan. 14
Feb. 5	Wayland, Mass.	Jan. 28
Feb. 5	Toledo, Ill.	Jan. 28
Feb. 8	Springfield, Mass. Adv. Jan. 21 and 28.	Jan. 21
Feb. 9	Tallahassee, Fla. Adv. Jan. 21 and 28.	Jan. 21
Feb. 9	Moss Point, Miss.	Jan. 28
Feb. 10	Anderson, Ind.	Jan. 21
Feb. 11	Salisbury, Md. Adv. Jan. 21 and 28.	Jan. 21
Feb. 11	Port Arthur, Tex.	Jan. 21
Feb. 12	Mount Shasta (mail Weed), Calif.	Jan. 28
Feb. 15	Ohiowa, Neb.	Jan. 28
Feb. 16	Knoxville, Tenn. Adv. Jan. 21 and 28.	Jan. 21
Feb. 16	St. Louis, Mo.	Jan. 21
Feb. 18	Lock Haven, Pa.	Jan. 28
Feb. 24	Willard, N. Y.	Jan. 21
Mar. 15	Los Angeles, Calif. Adv. Jan. 28.	Jan. 28
	SEWERS	
Feb. 2	Springfield, Ill.	Jan. 7
Feb. 4	Hamilton, Ont.	Jan. 28
Feb. 8	Quakertown, Pa.	Jan. 21
Feb. 8	Spring Lake, N. J. Adv. Jan. 28.	Jan. 28
Feb. 9	Toledo, O. Adv. Jan. 21 and 28.	Jan. 21
Feb. 16	St. Louis, Mo.	Jan. 28
Feb. 17	Grand Rapids, Mich. Adv. Jan. 28.	Jan. 28
Mar. 1	Clayton, Mo.	Jan. 28
Mar. 10	Waco, Tex.	Jan. 7
Mar. 15	Waco, Tex.	Jan. 21
	BRIDGES	
Feb. 2	Oklahoma	Jan. 21
Feb. 3	New Jersey Adv. Jan. 21 and 28.	Jan. 21
Feb. 3	San Antonio, Tex.	Jan. 7
Feb. 3	Wenatchee, Wash.	Jan. 28
Feb. 4	New York, N. Y.	Jan. 28
Feb. 5	Missouri	Jan. 28
Feb. 8	Pennsylvania	Jan. 21
Feb. 10	Alabama	Jan. 21
Feb. 15	London, Ont.	Jan. 28
Feb. 16	Louisiana	Jan. 21
Feb. 16	Washington	Jan. 28
Mar. 1	Key West, Fla. Adv. Jan. 21 and 28.	Jan. 21
	DAMS	
Mar. 23	Wellington, New Zealand	Jan. 21
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES RIVER AND HARBOR	
Feb. 3	Lake Wales, Fla.	Jan. 28
Feb. 5	Grass Valley, Calif.	Jan. 28
Feb. 8	Allenhurst, N. J.	Jan. 14
Feb. 10	Stuart, Fla. Adv. Jan. 14 to 28.	Jan. 14
Feb. 10	Oskaloosa, Ia.	Jan. 28
Feb. 18	Mobile, Ala.	Jan. 21
Feb. 18	Los Angeles, Calif. Adv. Jan. 28.	Jan. 28
	STREETS AND ROADS	
Jan. 29	Vincennes, Ind.	Jan. 28
Feb. 1	Fergus Falls, Minn.	Jan. 14
Feb. 2	Oklahoma	Jan. 21
Feb. 2	Blue Island, Ill.	Jan. 21
Feb. 2	Stillwater, Minn.	Jan. 21
Feb. 2	Gulfport, Miss.	Jan. 28
Feb. 2	Oklahoma	Jan. 28
Feb. 2	Tecumseh, Neb.	Jan. 28
Feb. 3	New Jersey Adv. Jan. 14 to 28.	Jan. 14
Feb. 4	Concordia, Kan.	Jan. 14
Feb. 4	Ord, Neb.	Jan. 21
Feb. 4	Frederick, Okla.	Jan. 28
Feb. 4	Phila., Pa.	Jan. 28
Feb. 5	Erie, Kan.	Jan. 14
Feb. 5	Pennsylvania	Dec. 31
Feb. 5	Harrisville, W. Va.	Jan. 21
Feb. 5	Cleburne, Tex.	Jan. 21
Feb. 5	Missouri	Jan. 28
Feb. 5	Chicago, Ill.	Jan. 28
Feb. 6	Pennsylvania	Dec. 31
Feb. 8	Kentucky	Jan. 7
Feb. 8	Mobile, Ala.	Jan. 21
Feb. 8	Galveston, Tex.	Jan. 28
Feb. 8	San Diego, Calif.	Jan. 28
Feb. 8	Hamilton, Mo.	Jan. 28
Feb. 8	North Carolina Adv. Jan. 28.	Jan. 28
Feb. 9	Minnesota	Jan. 21
Feb. 9	Louisiana	Jan. 21
Feb. 9	Minnesota	Jan. 14
Feb. 9	Clarksburg, W. Va.	Jan. 28
Feb. 9	Battle Creek, Ia.	Jan. 28
Feb. 10	Belvidere, N. J. Adv. Jan. 21 and 28.	Jan. 21
Feb. 10	Alabama	Jan. 21
Feb. 10	Florida	Jan. 28
Feb. 10	Santa Rosa, Calif.	Jan. 28
Feb. 11	Magnolia, Miss.	Jan. 28
Feb. 11	Siloam Springs, Ark.	Jan. 28
Feb. 15	Anderson, Ind.	Jan. 21
Feb. 15	New Jersey Adv. Jan. 28.	Jan. 28
Feb. 16	St. Louis, Mo.	Jan. 21
Feb. 16	Washington	Jan. 28
Feb. 19	Pennsylvania	Jan. 14
Feb. 20	Pennsylvania	Jan. 14
Feb. 22	Ontario	Jan. 28
Feb. 23	McPherson, Kan.	Jan. 28
Feb. 23	Louisiana	Jan. 28
Feb. 25	Kenosha, Wis.	Jan. 14
Feb. 26	Kittanning, Pa. Adv. Jan. 28.	Jan. 28
Mar. 1	Indiana	Jan. 7
Mar. 2	Chilton, Wis.	Jan. 28
	BUILDINGS—INDUSTRIAL	
Feb. 1	Chester, Pa.	Jan. 21
Feb. 2	Iowa City, Ia.	Jan. 28
Mar. 1	Chicago, Ill.	Jan. 14
	BUILDINGS—COMMERCIAL	
Feb. 1	Bridgeport, Conn.	Jan. 28
Feb. 2	Cleveland Heights (Warrensville P. O.), O.	Jan. 21
Feb. 3	New Haven, Conn.	Jan. 28
Feb. 3	St. Clair, Mich.	Jan. 28
Feb. 8	Trenton, N. J.	Jan. 21
Feb. 8	Omaha, Neb.	Jan. 28
Feb. 13	Cleveland, O.	Jan. 28
Feb. 15	Regina, Sask.	Jan. 28
Feb. 16	St. Louis, Mo.	Jan. 21
Feb. 20	New Orleans, La.	Jan. 21
Mar. 1	Duluth, Minn.	Jan. 7
Mar. 4	West Haverstraw, N. Y.	Jan. 21
Apr. 1	Moline, Ill.	Jan. 14
Apr. 1	Youngstown, O.	Dec. 31
	BUILDINGS—EDUCATIONAL, RELIGIOUS	
Jan. 29	West Englewood, N. J.	Jan. 21
Jan. 30	Newton Falls, O.	Jan. 14
Feb. 1	Terre Haute, Ind.	Jan. 21

See proposal advertisements on page 100, Advertising Section.

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Caulking Means EXPENSE---
No Caulking Means PROFIT

Making LEADITE Joints on 24 inch c. i. B & S Force Main

It is needless waste of time, money and labor to caulk cast iron bell and spigot water mains.

Why not turn this expenditure into a profit?

Use Leadite which is melted and poured into the joint.

Leadite forms a water-tight bond by filling every crevice of the joint from the yarn out to face of bell of pipe, without caulking.

Leadite means simplicity, efficiency and economy.

Water works all over the world use Leadite because it makes a good joint which improves with age.

Leadite resists electrolysis.

Leadite facilitates rapid progress of the work generally.

Leadite does not corrode or rust.

Leadite has been successfully tested and used for over 30 years.

Thousands of miles of pipe jointed with Leadite are in service.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids Close		See Eng. News-Record
Feb. 1	Terre Haute, Ind.	Jan. 7
Feb. 1	Milan, Mich.	Jan. 21
Feb. 1	Montclair, N. J.	Jan. 28
Feb. 1	Phila., Pa.	Jan. 28
Feb. 2	Lincoln, Neb.	Jan. 7
Feb. 2	Phila., Pa.	Jan. 28
Feb. 2	Owings Mills, Md.	Jan. 21
Feb. 3	Racine, Wis.	Jan. 28
Feb. 3	Los Angeles, Calif.	Jan. 28
Feb. 5	Norwood, Mass.	Jan. 28
Feb. 8	Pasadena, Calif.	Jan. 28
Feb. 12	New Orleans, La.	Jan. 21
Feb. 16	Wellsville, N. Y.	Jan. 21
Feb. 22	Ferndale (br. Detroit), Mich.	Jan. 21
Feb. 24	Williamsport, Pa.	Jan. 7
Feb. 27	Duluth, Minn.	Dec. 17
Feb. 28	Beloit, Wis.	Jan. 28
Mar. 1	Newberry, Mich.	Jan. 28
Mar. 3	Baton Rouge, La.	Jan. 21
Mar. 15	Lewistown, Pa.	Jan. 21

FEDERAL GOVERNMENT WORK

Feb. 1	Dam—Louisville, Ky. Adv. Dec. 17 to Jan. 7, 21 and 28.	Dec. 24
Feb. 1	Acetylene Flashers — St. George, N. Y.	Jan. 21
Feb. 3	Dredging—Galveston, Tex. Adv. Jan. 7 to 28.	Jan. 7
Feb. 5	Water Pipe, etc.—Mobile, Ala.	Jan. 28
Feb. 5	Cement—Wash., D. C.	Jan. 28
Feb. 6	Storehouse—Jacksonville, Fla. Adv. Jan. 14 to 28.	Jan. 14
Feb. 10	Radio Tower—Eureka, Calif.	Jan. 14
Feb. 10	Additions — Cheyenne, Wyo.	Jan. 28
Feb. 10	Fuel Storage—Pensacola, Fla.	Jan. 28
Feb. 11	Metal Work—Louisville, Ky. Adv. Jan. 14 to 28.	Jan. 14
Feb. 15	Remodeling—Santa Rosa, Calif.	Jan. 28
Feb. 16	Hull—St. Louis, Mo. Adv. Jan. 21 and 28.	Jan. 21
Feb. 16	Refrigeration Plant—Hot Springs, S. D.	Jan. 28
Feb. 16	Post Office—Troy, N. Y.	Jan. 28
Feb. 18	Breakwater — Buffalo, N. Y.	Jan. 28
Feb. 19	Radial Gates—Idaho and Oregon	Jan. 14
Feb. 23	Valves, etc.—Nebraska	Jan. 28
Feb. 23	Remodeling — Brownsville, Tex. Adv. Jan. 28.	Jan. 28
Feb. 24	Administration—Pearl Harbor, T. H.	Jan. 7
Feb. 24	Water Meter, etc.—San Diego, Calif.	Jan. 28
Feb. 26	Dredging — New York, N. Y. Adv. Jan. 28.	Jan. 28
Mar. 1	Cruiser—Wash., D. C.	Dec. 31
Mar. 3	Hospital—Mare Island, Calif. Adv. Jan. 21 and 28.	Jan. 21
Mar. 15	Breakwater—Hilo, T. H. Adv. Jan. 21 and 28.	Jan. 21

UNCLASSIFIED

Jan. 29	Subway—New York, N. Y.	Jan. 21
Jan. 30	Ash Handling Equipment — Detroit, Mich.	Jan. 28
Feb. 1	Swimming Pool—Yonkers, N. Y. Adv. Jan. 14 to 28.	Jan. 21
Feb. 2	Street Lighting System — Kenilworth, Ill.	Jan. 28
Feb. 2	Refrigerating Plant—New York, N. Y.	Jan. 28
Feb. 5	Subway—New York, N. Y.	Jan. 7
Feb. 9	Wharf — Lake Charles, La.	Jan. 21
Feb. 10	Foundation—Indianapolis, Ind.	Jan. 7
Feb. 16	Circuit Breakers—Auckland, New Zealand	Dec. 10
Mar. 23	Panels, Filters, etc.—Wellington, N. Z.	Jan. 21

MATERIALS

Jan. 29	Crushed Stone—Pennsylvania	Jan. 28
Jan. 29	Sand Grit, etc.—Long Island City, N. Y.	Jan. 28
Feb. 1	Corrugated Metal Pipe — Pennsylvania	Jan. 28
Feb. 1	Paving Blocks, etc.—Milwaukee, Wis.	Jan. 28
Feb. 1	Pipe—Mendenhall, Miss.	Jan. 28
Feb. 2	Bituminous Material — Pennsylvania	Jan. 28
Feb. 2	Road Oil—White Hall, Ill.	Jan. 28
Feb. 2	Cement, Gravel and Sand — New London, Wis.	Jan. 28
Feb. 2	Piles—New Orleans, La.	Jan. 28
Feb. 4	Sand Grit—New York, N. Y.	Jan. 28
Feb. 5	Iron Castings—New Haven, Conn.	Jan. 28

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Springfield—Plans new pipe lines across Connecticut River for city water. $450,000.

Conn., Meriden—Plans 15 in. c.i. mains in Kensington Ave. $40,000. C. P. Prann, city engr.

N. Y., Saugerties—Voted $225,000 bonds, 5 mi. 16 in. mains in various streets. Noted Aug. 6.

Md., Preston—City Comrs. retained Kastenhuber & Anderson, civil engrs. and surveyors, Easton, to design waterworks.

N. C., Cary — Sold $30,000 bonds, enlarging waterworks and sewerage systems. Noted Dec. 3.

Ala., Anniston — Voted $500,000 bonds, purchasing waterworks from Alabama Water Co. Noted Dec. 3.

Ala., Northport—See "Sewers."

Miss., Gulfport—Plans enlarging artesian reservoir, and heavy duty service pump for fire mains. $50,000. G. W. Odom, City Hall, engr.

Miss., Laurel — Voted $50,000 bonds, waterworks improvements, incl. deep well, etc. Noted Nov. 12.

Mich., Detroit — Dept. Water Supply making plans 1,315 lin.ft. 12 in. c.i. mains in West Chicago Ave.; 1,285 ft. 16 in. Evergreen Rd.; 2,570 ft. 6 in. in Fielding Ave., 1,285 ft. Plainview Ave., 2,565 ft. Braile Ave., and 1,280 ft. Minock Ave.; 2,565 ft. 8 in. mains in Pierson Ave., 1,285 ft. in Auburn Ave., 1,150 ft. in Western Dr., 1,285 ft. in Plymouth Rd. and 1,310 ft. in Grandville Ave. G. H. Fenkell, 176 East Jefferson Ave., genl. mgr.

Ill., Bellewood—Takes bids about June 1, c.i. mains in various streets. $100,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Berkeley (mail Elmhurst) — Takes bids about Aug. 1, c.i. mains in various streets. $90,000. E. Hancock, 2047 Ogden Ave., Chicago, engrs.

Ill., Elmhurst—Takes bids about May 1, 4 and 6 in. c.i. mains in various streets. $200,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Evergreen Park—Takes bids about Mar. 1, c.i. mains in various streets. $200,000. E. Hancock, 2047 Ogden Ave., Chicago, engr. Noted Aug. 6.

Ill., Melrose Park — Takes bids about June 1, new deep well, pumping equipment and 1 m.g. concrete reservoir. $90,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Morton Grove — Takes bids about July 1, c.i. mains in various streets. $200,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Mt. Greenwood—Takes bids about June 1, c.i. mains, etc., in various streets. $100,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Staunton — Election soon $90,000 bonds, waterworks improvements, incl. several mi. 4 and 6 in. c.i. mains, valves, hydrants, etc. $40,000 funds now available for same. W. A. Fuller Co., 1917 Ry. Exch. Bldg., St. Louis, Mo., engr.

Kan., Lenexa—Defeated $42,000 bonds new waterworks. E. A. Legler, mayor. Noted Jan. 7.

N. D., Mandan—Burns & McDonnell Eng. Co., engrs., 402 Interstate Bldg., Kansas City, Mo., preparing preliminary plans 1 m.g. concrete reservoir, and 2 or 3 m.g. filter plant, also extending distribution system. $150,000-$200,000. E. R. Griffin, city eng. supervising same. Noted Oct. 1.

Mo., Cassville—Election Apr. 6, $25,000 bonds water distribution system, deep well and tank on tower. Russell & Axon, 412 McDaniel Bldg., Springfield, engrs.

Mo., Charleston — Voted $46,000 bonds, waterworks and distribution system, also $5,500 bonds, automobile fire pump. F. L. Wilcox, Chemical Bldg., St. Louis, engr.

Mo., Deepwater—Making plans improving waterworks, etc. $45,000. Russell & Axon, 412 McDaniels Bldg., Kansas City, engrs.

Mo., Houston — Defeated $25,000 bonds, waterworks and distribution system. Russell & Axon, 412 McDaniel Bldg., Springfield, engrs. Noted Nov. 26.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids four 650 hp. boilers with auxiliary appurtenances, handling machinery and machine shop equipment, $525,000; two 30 m.g. turbine driven centrifugal pumps, $412,500; two 40 m.g. and one 60 m.g. steam turbine driven centrifugal pumps, $237,500; coated c.i. water pipe castings, valves, fire hydrants, valve boxes, etc., $200,000; also repairing and reconstructing 2 railroad trestles on North Market St. Municipal Dock, $12,000. E. E. Wall, City Hall, dir.

Mo., St. Louis — City soon takes bids elevated tank on tower for Robert Koch Hospital, St. Louis Co. $18,500. L. R. Bowen, 301 City Hall, engr.

Texas—See "Dams."

Okla., Inola — Election Feb. 2, $23,000 bonds, new waterworks, incl. well, tank, pump, 9,300 ft. 4 and 6 in. c.i. mains, valves, hydrants, etc. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs.

Wash., Wenatchee—Sold $300,000 bonds, increasing capacity waterworks.

Calif., Glendora—Plans to purchase 1,200 ft. c.i. Class "B" water pipe. F. Long, city clk.

BIDS DESIRED

Mass., Wayland—Feb. 5, by Bd. Selectmen, water system. To exceed $15,000. Hydraulic Development Co., 296 Boylston St., Boston, Mass., engrs.

Pa., Lock Haven—Feb. 18, by Boro Council, J. B. McClellan, supt. Parks & Pub. Property, 4,450 ft. 12 in. iron pipe line; also making plans new dam at upper reservoir at Castanea. R. S. Kift, boro engr.

Miss., Moss Point—Feb. 9, by City Clerk, 71,500 ft. 2- to 8-in. c.i. mains, hydrants, valves and boxes, 100,000 gal. tank on tower, 300,000 gal. concrete reservoir, well, oil or electric pumping equipment, etc. $125,000. H. A. Mentz, Hammond, La., engr. Noted Dec. 17.

Tenn., Brownsville — See "Contracts Awarded."

O., Cincinnati—Feb. 1, by Director Pub. Serv. 16- to 36-in. vertical and horizontal by-pass gate valves $13,000, and 1,310 tons 6- to 36-in. c.i. hub and spigot pipe for mains in Central Parkway from 8th and Eggleston Sts., to Findlay St. $70,000, to Water Distribution System. C. O. Sherrill, City Hall, engr.

Mich., Detroit — Feb. 1, by Dept. Purchase & Supplies, 710 Marquette Bldg., 2,348 meters for Dept. Water Supply, 176 East Jefferson Ave.

Mich., Detroit—Feb. 3, by W. J. Black, comr. Purchases & Supplies, 710 Marquette Bldg., 250-275 tons 8 in. and 12 in. c.i. pipe, 1,200 ft. 4 in. drain pipe, etc., for high pressure fire system, for Bd. Fire Comrs.

Ill., Toledo—Feb. 5, by Bd. Local Impvts., Village Hall, distribution system, incl. 10,575 ft. 6 in. and 11,692 ft. 4 in. c.i. Class B c.i. pipe, 29 fire hydrants, 36 gate valves and boxes, etc. Caldwell Eng. Co., Jacksonville, engrs.

Minn., St. Paul—Feb. 2, by A. E. Eggert, city purch. agt., 50 each 2 in. and 1.5 in. brass water gate valves, 62,000 lin.ft. seamless copper tubing, 2,000 lb. 40-60 solder in approximately 3 lb. pigs. G. M. Shepherd, city engr.

Neb., Ohiowa—Feb. 15, by J. P. Moor, city clk., Sect. 1, 35,000 or 50,000 gal. tank on 100 ft. tower to balcony, erected on foundation; Sect. 2, 11,016 ft. 4- to 8-in. Class "B" c.i., McWane, prechalked joint or DeLavaud Class "150" c.i. pipe; Sect. 3, 4,220 ft. 2 in. galvanized or c.i. pipe; Sect. 5, 8 or 10 in. well, approximately 200 ft. deep, etc. To exceed $15,000. Henningson Eng. Co., Natl. Bldg., Omaha, engrs.

Mo., Republic — Feb. 2, by City Clerk, improving waterworks, incl. tank on tower, pumping equipment and several miles mains. Gantt-Baker Co., Inc., 1116 West Main St., Oklahoma City, Okla., engrs. $65,000. Noted Nov. 12.

Mo., St. Louis—Feb. 4, by G. J. Dietz, supply comr., City Hall, 800 tons 36 in., 1,260 tons 20 in., 440 tons 12 in. and 165 tons 3- to 8-in. c.i. pipe.

Okla., Heavener—City, in market small 350 g.p.m. centrifugal pump against a 300 ft. head, for waterworks. J. H. Brannon, city mgr.

Calif., Los Angeles — Mar. 15, by Bd. Supervs. Los Angeles Co. Flood Control Dist., 165 ft. concrete dam and appurtenant structures, tunnels, spillways, etc., in Sawpit Canyon, 2 mi. north of Monrovia. L. E. Lampton, clk.; adv. E. N.-R. Jan. 28. Noted Dec. 3.

Calif., Mount Shasta (mail Weed)—Feb. 12, by City Trustees, extending waterworks,

See proposal advertisements on page 100, Advertising Section.

Save Time and Money on Your Winter Work

Make *Strong* Concrete in *3 Days* with *Universal* Cement

On some of your construction work in progress during these winter months, high early strength concrete is particularly desirable because:

It has sufficient strength to resist damage by freezing much earlier than ordinary concrete.

It requires protection from freezing for a *shorter* period which means a saving of expense.

It saves time where rush work is required.

You can, with *Universal* cement, obtain quick-hardening, strong concrete in *3 days* by using simple, inexpensive methods that thousands of laboratory tests and actual construction experience prove will give you these desired results.

For detailed information write to

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland New York

Concrete for Permanence

Waterworks (Continued)

4,200 cu.yd. excav., 12,500 ft. 10 in. pipe with fittings, one 100,000 gal. or one 200,000 gal. tank, etc. H. B. Ream, city engr.

BIDS RECEIVED

N. J., Vineland — Bd. Institutions & Agencies, Trenton, B. G. Lewis, comr., Jan. 18, 50,000 gal. steel tank on tower, at New Jersey Home for Feeble Minded, here, from Pittsburgh-Des Moines Steel Co., 30 Church St., New York City, $6,700. Noted Jan. 7

W. Va., Wheeling—Mains in 8 projects, from G. J. Coffey Co., Wheeling, $40,597.

Mich., Detroit—Dept. Water Supply, 4,500 tons 36 in. Class "C" c.i. pipe, from U. S. Cast Iron Pipe & Fdry. Co., East Burlington St., Burlington, N. J., at $42.60 per ton.

Wis., Milwaukee—Central Bd. Purchases, Jan. 22, 3,000 tons 6- to 16-in. Class "C" pipe, from Glamorgan Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, Ill. at $47.40 per ton; 125 tons special castings, from Amer. Cast Iron Pipe Co., 38 South Dearborn St., Chicago, Ill. $84 per ton; 70 offsets and 7 tons special offsets, from J. B. Clow & Sons Co., North Talman Ave. and West Lake St., Chicago, Ill. at $0.775 per lb. and $155 per ton respectively; and tapping sleeves, from B. Hoffmann Mfg. Co., 1819 St. Paul Ave., $0.09 per lb. Noted Jan. 14.

CONTRACTS AWARDED

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Douglaston Parkway, Winchester Blvd., etc., to Gregory Contg. Co., 351 East 124th St., New York City, $117,474. Noted Jan. 21.

N. Y., St. George—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Beach, Bryant, Carlton, Cromwell, Fiedler, Fremont Aves., etc., to Knight & DeMicco, 448 East Tremont Ave., New York City, $25,215. Noted Jan. 21.

Tenn., Brownsville — City will improve waterworks, incl. relaying and extending mains, etc., in various streets, by day labor. $45,000. Noted July 16.

Tenn., Nashville—Auxiliary reservoir at Loves Circle, to Foster & Creighton Co., 4th and 1st Natl. Bank Bldg. Engrs. est. $100,000. Noted Dec. 17.

Mich., Detroit—Dept. Water Supply, five hundred 8 in. and five hundred 6 in. Detroit Water Supply gate valves, to Michigan Valve & Fdry. Co., 3631 Parkinson St., $28.20 and $20.95 each, respectively.

Ill., Lebanon—City Clerk for Bd. Local Impvts., 34,600 ft. 4 and 6 in. c.i. mains, 45 fire hydrants, 32 gates, valves and boxes, etc., to Merkle Contg. Co., Davidson Bldg., Kansas City, Mo., $50,001. Noted Jan. 21.

Wis., Menasha—J. F. De Caro, city clk., 1,884 ft. 6 in., 430 ft. 8 in. and 126 ft. 4 in. c.i. pipe, to Natl. Cast Iron Pipe Co., 122 South Michigan Ave., Chicago, Ill.; 5 hydrants, one 8 in. and seven 6 in. gate valves, to Darling Valve & Mfg. Co., Williamsport, Pa. Engrs. est. to exceed $15,000. Noted Dec. 31.

Calif., San Diego — Common Council, water system in Alta Vista, Homedale Sts., etc., to B. Noble, Spreckels Bldg., $33,783. Noted Jan. 21.

Sewers

PROPOSED WORK

N. C., Cary—See "Waterworks."

Fla., Miami—Making plans 22,950 ft. 10 in. vitr. sewers, replacing 23,850 lin.ft. sidewalks, curbing, guttering, and sheet asphalt paving, in Dist. 185, $150,000; 17,000 ft. 12 in. vitr. sewers, 17,000 lin.ft. sidewalk, curbing and guttering and sheet asphalt paving Dist. 186, $125,000; 800 ft. 15 in. vitr. sewers, 800 ft. curbing, guttering, sidewalk, etc., Dist. 187, and 400 ft. 18 in. vitr. sewer Dist. 188, $10,600. C. S. Nichols, Miami, engr.

Ala., Northport — Voted $40,000 bonds, sewers and water mains in various streets. Noted Dec. 17.

Tenn., South Pittsburg—See "Streets and Roads."

O., Portage — Soon takes bids sanitary sewers in Longmore allotment. $35,000.

Mich., Melvindale (Dearborn P. O., R. F. D. 2)—Making preliminary plans Palmer Ave. Trunk Sanitary Sewer, approximately 6,000 lin.ft. 14- to 33-in. circular concrete pipe. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Mich., Melvindale (Dearborn P. O., R. F. D. 2)—Plans trunk sewer in Prospect Ave., Sect. 1, 2,552 ft. 42 in. concrete circular pipe Sect 2, 4,227 ft. 33 in. and 36 in. pipe and Sect. 3, 3,125 ft. 27- to 33-in. pipe. $200,000. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Ill., Addison—Takes bids about Aug. 1, sewers, etc., in various streets. $50,000. E. Hancock, 2047 Ogden Ave., Chicago, engr. Noted Aug. 6.

Ill., Bellewood—Takes bids about June 1, combined sewers in various streets. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Bensenville—Takes bids about June 1, storm water drains in various streets. $100,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Elmhurst—Takes bids about Aug. 1, combined sewers in various streets. $400,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Jonesboro — Takes bids about Mar. 13, disposal plant, mostly 8 and 10 in. sewers, etc. in various streets. $40,000. W. A. Fuller Co., 1917 Ry. Exch. Bldg., St. Louis, Mo., engrs.

Ill., La Grange—Takes bids about Apr. 1, 12- to 74-in. combined sanitary and storm sewers in various streets. $400,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Morton Grove — Takes bids about June 1, sewers in various streets. $300,000. E. Hancock, 2047 Ogden Ave., Chicago, engr. Noted Aug. 6.

Wis., Milwaukee — Metropolitan Sewerage Comn., 508 Market St., J. H. Fowles, secy., making plans 2 mi. concrete main sewers in Burleigh St. and Grand Ave.

Mo., Brentwood (St. Louis P. O.)—Brentwood Sewer Dist. takes bids in March sewers in East Section, 42,600 ft. 8- to 21-in. pipe, 25,000 cu.yd. earth and 627 cu. yd. rock excav., 58,000 lb. c.i., etc.; West Section, 80,000 ft. 8- to 18-in. pipe, 42,900 cu.yd. earth and 3,000 cu.yd. rock excav., 10,000 cu.yd. fire clay, 108,200 lb. c.i., etc. $300,000. A. H. Beard Eng. Co., Manchester Ave, Maplewood, engrs. Noted Nov. 26.

Mo., Charleston — Voted $30,000 bonds, complete sanitary sewerage system. F. L. Wilcox, Chemical Bldg., St. Louis, engrs. Noted Dec. 24.

Mo., University (St. Louis P. O.)—City clerk takes bids about Feb. 1, approximately 9,000 ft. 33 and 36 in. sanitary sewers in Sect. B, River Des Peres, Public Sanitary Sewer Dist. $75,000. W. A. Heimbeucher, City Hall, engr.

Ark., Hot Springs—Takes bids probably in April or May sewers in Oaklawn Dist. Garland Co. Sewer Dist. 1, $50,000; in Crescent Ave. and vicinity, Sewer Impvt. Dist. 86, $10,000; and in Park, Magnolia, Amber, Mt. Ida, Aspian, Glade Polar, Russell and Florence Sts., Sewer Impvt. Dist. 87, $55,000. C. Smith, City Hall, engr.

Ark., Pine Bluff — See "Streets and Roads."

Tex., Alice—Voted $50,000 bonds, sewerage system. J. H. Briggs, Alice, engr.

Tex., San Saba—Plans election $60,000 bonds, sewers in various streets, and probably disposal plant. D. Chadwick, city secy.

Tex., Wellington—Plans sewer improvements, mains, probably disposal plant, etc. $110,000. Devlin Eng. Co., Amarillo, engrs. Noted Jan. 7.

Tex., Wichita Falls — Soon takes bids sewerage disposal plant, incl. 2 story settling tanks, trickling filters and secondary settling tanks. $300,000. Montgomery & Ward, 545 Harvey-Snider Bldg., engrs. J. H. Gregory, Johns Hopkins University, Baltimore, Md., associated engr. Noted Nov. 5.

Okla., Stillwater — Making preliminary plans new sewage disposal plant, Imhoff tank filters, motor driven pumps, etc. $30,000 bonds voted. J. M. McLendon, Stillwater, engr.

Ont., Toronto — East York Twp. soon takes bids vitr. tile sewers in Rosevear Ave. $5,181, Newman Ave. $2,262, Eastdale Ave. $11,863, Hamstead Ave. $6,899. Work involves 7,500 ft. 8 in., etc. pipe. G. R. Jack, 443 Sammon Ave., Toronto, engr.

Ont., Toronto — East York Twp. plans 4,245 lin.ft. 33 and 36 in. concrete pipe in Lumsden, Coxwell and Mortimer Aves. $168,830. G. R. Jack, 443 Sammon Ave., engr.

Ont., Toronto—York Twp. plans 8 in. vitr. tile sewers in Donald Ave. $6,460, Ossington Ave. $5,700, Snider Ave. $8,810, St. Clair Ave. $8,090, Allenvale Ave. $460, Almeda Ave. $4,895, Kersdale Ave. $5,150, and Alexander Ave. $3,398. F. B. Goedike, 40 Jarvis St., engr.

BIDS DESIRED

N. J., Spring Lake — Feb. 8, by Mayor and Boro Council, Boro Bldg., Washington Ave., M. O. Morris, clk., sanitary sewers, electric ejector station, etc. J. M. Braly, boro engr.; adv. E. N.-R. Jan. 28.

Mich., Grand Rapids—Feb. 17, by Director Pub. Serv., City Hall, constructing Silver Creek Drain, Contr. K-4. F. H. Locke, city mgr.; adv. E. N.-R. Jan. 28.

Wis., Chilton—See "Streets and Roads."

Mo., Clayton—Mar. 1, by J. Harnage, secy., Northwest Maplewood Sewer Dist., 500 cu.yd. rock and 16,500 cu.yd. earth excav., 1,700 cu.yd. channel change, 1,072 ft. 42 and 48 in. segmental block and 24,440 ft. 8- to 36-in. vitr. concrete pipe, also 56,300 lb. c.i., etc. A. H. Beard Eng. Co., 7370 Manchester Ave., Maplewood, engrs. Noted Nov. 26.

Mo., St. Louis — Feb. 16, by Bd. Pub. Serv., 208 City Hall, 2,830 ft. 8- to 51-in. vitr. clay, segmental block or brick sewers in North Baden Joint Sewer Dist. $30,000. W. W. Horner, 300 City Hall, engr.

Calif., Los Angeles—Feb. 2, by Los Angeles Co. Sanitation Dist. 4, 8,071 ft. 8- to 18-in. vitr. clay sewer in La Cienega Blvd. Trunk Sewer Dist. from 3rd St. to Cienega Blvd., etc. To exceed $25,000. A. K. Warren, Los Angeles, engr.

Ont., Hamilton—Feb. 4 (extended date), by F. F. Trealeven, City Hall, high tension equipment, transformers, 5 vertical motors, automatic switching equipment, etc. for Gage Ave. Sewage Pumping Station. W. L. McFaul, City Hall, engr. Noted Jan. 21.

BIDS RECEIVED

N. Y., St. George—J. Lynch, pres. Richmond Boro, Boro Hall, Jan. 20, temporary sanitary sewer in Sea View Ave. from Washington Ave. to Quincy St. to Liberty Ave., from J. J. B. La Marsh, 391 Fulton St., Brooklyn, $103,833.

N. J., East Orange—City, 2,810 lin.ft. 12- to 60-in. concrete sewers in Woodland Ave., from F. Greco, 54 Fairmont Terrace, $38,670. Engrs. est. $45,000.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, Jan. 20, main sewer in Rowland Ave. between Tudor and Bleigh Sts., from J. Lombardi, Lincoln Bldg., $7,123; discharge pipes between Southwest Pumping Station and Eagle Creek, from J. J. McHugh, 1617 Race St., $7,070; and understructure in Wheatsheaf Lane between Delaware Ave. and Delaware River, also sewers and pumping station in connection with South Phila. Impvt. south of Packer St. west of Broad St., from G. F. Dobbin, 1020 South 7th St., $30,804 and $30,828 respectively. Noted Jan. 14.

Wis., Milwaukee—Central Bd. Purchases, J. W. Nicholson, ch. buyer, Jan. 22, from Milwaukee Grey Iron Fdry. Co., 39th Ave. and Mitchell St., three hundred 4 flange frames and grates at $0.0275 per lb., four hundred 3 flange $0.03, 400 side inlet boxes $0.04 and 200 manhole covers and lids $0.044.

Calif., Los Angeles—Constructing Arroyo de la Sacatella storm drainage system, from C. R. Adams, Colfax, $767,000. Noted Dec. 10.

CONTRACTS AWARDED

N. J., Westwood — Mayor and Boro Council, sewage treatment works, to Kuchar Bros., Montclair. Noted Dec. 10.

Md., Baltimore—Bd. Awards, storm and sanitary sewers in Sewer Dist. J-4, as listed in Storm Water Contr. 90, to W. H. Thompson Constr. Co., Relay, $90,084. Noted Jan. 7.

Fla., Lake Wales—L. F. Kramer, mayor, sanitary sewer and disposal plant, to C. K. Horton, 2202 Clay St., Houston, Tex., $74,000. Noted Dec. 31.

Ala., Selma — Sanitary sewerage system, to Roberts & Co., Tuft Bldg., Atlanta, Ga., $250,000. Noted July 16.

O., Cleveland—Cuyahoga Co., 3,500 ft. 8 and 36 in. concrete sewers in Mayfield and Belrose Aves., to Joseph Co., Prospect-Fourth Bldg., $23,956. Noted Jan. 7.

Mich., Detroit—Dept. Pub. Wks., Lonyo Road Pumping Station, incl. 25 x 40 ft. concrete pump pit, pumps, etc., to R. D. Baker, 1631 Elmhurst Ave., $85,000.

Wis., Beaver Dam—W. A. Gergen, city clk., 3,096 ft. tunnel work, 20 to 50 ft. deep, for sewers in 9 streets, to Szukalski & Matke, 1089 American Ave., Milwaukee, $29,841. Noted Jan. 14.

Wis., Wauwatosa—Bd. Pub. Wks., A. V. Brigham, secy., concrete storm sewers in East North Ave., to Szukalski & Matke, 1089 American Ave., Milwaukee, $22,163; and vitr. sanitary sewers in 14th and 15th Aves., to Blunt Bros., Waterloo, Ia., and Janesville, $8,086. Noted Dec. 17.

Ia., Earlham—Sanitary sewerage system, to E. L. Royer Constr. Co., 442 Insurance Exch. Bldg., Des Moines, $35,700; disposal plant, to Repass Constr. Co., 3832 8th St., Des Moines, $9,985. Noted Aug. 6.

Mo., University (St. Louis P. O.) — For approximately 3,000 ft. 21- to 33-in. vitr. clay and 42- to 60-in. segmental block

See proposal advertisements on page 100, Advertising Section.

The ECONOMY of Concrete Pipe

INDEPENDENT Reinforced Concrete Pipe, because of their adaptability, low installation cost, small maintenance cost and great durability, make a remarkably economical, as well as the most efficient sewer material.

Past years have demonstrated beyond question that sewers can be built better and at lower cost with Independent Reinforced Concrete Pipe. Once properly installed an "Independent" sewer is good for generations of continuous service.

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Contractors are invited to phone, wire or write for estimates and complete data on any concrete pipe work. Municipal officials interested in low first costs, low maintenance and long service for their sewers are urged to send for our special booklet.

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CHICAGO, ILLS.
Illinois Concrete Sales Co.
603-4 City Hall Square Bldg.
FRANK NOVONTY, Mgr.

COLUMBUS, OHIO
Ohio Sales Agency
300 South High St.
E. W. HAWKE, Mgr.

OKLAHOMA CITY
Concrete Pipe Co. of Okla.
203 Grain Exchange Bldg.
E. A. BARNES, Mgr.

INDEPENDENT CONCRETE PIPE CO., 202 N. West St., Indianapolis, Ind.

INDEPENDENT
Reinforced Concrete Pipe

Sewers (Continued)

sewers in North and South Joint Sewer Dist., to F. C. Stolle Contg. Co., Buder Bldg., St. Louis, $33,000; and concrete paving Kingsland St. between Olive St. and Clemens Ave., to Allied Contractors, 1803 Douglas St., Omaha, Neb., $13,300.

Okla., Oklahoma City — City, general contract 2 sewage disposal plants, to W. E. Moore, 529 West 20th St., Oklahoma City, $35,000. Noted Jan. 14.

Waste Disposal

PROPOSED WORK

Ont., Walkerville — See "Streets and Roads."

CONTRACTS AWARDED

W. Va., Fairmont — City Bd. Dirs., incinerator plant, to Universal Destructor Co., Fulton Bldg., Pittsburgh, Pa., $27,500.

Bridges

PROPOSED WORK

Rhode Island—Mt. Hope Bridge Comn., State House, Providence, plans concrete and steel toll bridge connecting Portsmouth and Bristol. D. O. Cargell, 21 State House, Providence, engr.

N. Y., New York — Dept. Plants & Structures, Municipal Bldg., rejected bids Dec. 28, reconstructing High Bridge over Harlem River, between Manhattan and Bronx Boros. Noted Jan. 7.

N. J., Franklin — Boro Council plans bridge across railroad tracks on Franklin-North Church Rd. $138,590. Sussex Co. and 3 railroad companies appropriate toward cost. Engineer not selected.

Ind., Anderson—Madison Co. plans approximately 4 span 800 ft. bridge, near Moss Island. $70,000.

Tex., Abilene—See "Streets and Roads."

Tex., Anderson—See "Streets and Roads."

Tex., Austin—See "Streets and Roads."

Tex., Barstow — See "Streets and Roads."

Tex., Bay City—See "Streets and Roads."

Tex., Floydada—See "Streets and Roads."

Tex., Groveton—See "Streets and Roads."

Tex., Madisonville — See "Streets and Roads."

Tex., San Antonio — City, J. W. Tobin, mayor, City Hall, soon takes bids 90 ft. rein.-con. and steel bridge, 50 ft. across San Antonio River, at Market St. $40,000. I. Ewig, city engr. Noted Sept. 14.

Tex., Waxahachie — See "Streets and Roads."

Oklahoma — State Hy. Dept., Oklahoma City, making preliminary plans 1 span 116 ft., steel truss bridge on concrete piers over Poteau River, Highway 23, north of Howe on $40,000 and 1 span 96 ft. steel truss bridge on concrete piers over Poteau River on Highway 23, at Heavener, $35,000, both Le Flore Co. J. M. Page, highway engr.

Okla., Eufaula—State Hy. Dept., Oklahoma City, made surveys 4 span 880 ft. truss bridge on concrete piers over South Canadian River, McIntosh Co., near here. $175,000. J. M. Page, highway engr.

Wash., Hoquiam — City and State Hy. Dept., Olympia, plans 1,700 ft. bridge, incl. 3 or 4 fixed steel and one 190 ft. movable span and 1,100 ft. treated timber trestle approach, 24 ft. roadway, etc., over Hoquiam River. J. W. Hoover, Olympia, ch. engr.

Wash., Newport — State Hy. Depts., Olympia, Wash., and Boise, Idaho, plan approximately 1,240 ft. bridge, incl. probably four 180 ft. steel through spans, 520 ft. concrete or treated timber approach, etc., over Clark Fork of Columbia River, on State Rd. 6, Pend Areille Co., here. $150,000. J. W. Hoover, Olympia, engr., and W. J. Hall, Boise, Idaho, comr. Pub. Wks.

Calif., Orwood (mail Middle River) — Atchison, Topeka & Santa Fe R.R., 1001 3rd St., San Francisco, made plans double track lift bridge over Old River, here. $400,000. Eng. Dept., of Owner's, engrs.

Ont., Toronto — Scarboro Twp. plans Yonges Bridge, 25 ft. span, rein.-con., $5,905; Maxwells Bridge, 75 ft. span, with concrete abutments, $7,000, or with steel truss $6,700; new abutment for River Rouge Bridge, $3,500; 20 ft. span bridge on Road 18, $2,500; 14 ft. span on Road 9, $1,000; and 10 ft. span on Road 7, $2,000. C. E. Fraser, 1361 Kingston Rd., Toronto, engr.

BIDS DESIRED

Conn., Bridgeport—J. A. McElroy, city engr., City Hall, taking bids foundations probably steel and concrete swinging draw span bridge, Stratford Ave., for City. $800,000. Noted Dec. 17.

N. Y., New York—Feb. 4, by Park Bd., F. D. Gallatin, pres., Arsenal Bldg., 64th St. and 5th Ave., concrete arch bridge and approaches, at Boston Rd. and Bronx River, Bronx Park, Boro of Bronx.

New Jersey—See "Streets and Roads."

Missouri — Feb. 5, by State Hy. Dept., Jefferson City, one 40 ft. rein.-con. deck girder span, etc., over Mains Creek, Audrain Co.; three 20 ft. rein.-con. slab spans, etc., over Castor River Overflow, and three 140 ft. steel truss spans, etc., over Castor River, all in Bollinger Co.; one 86 ft. steel truss span, etc., over Contrary Creek, Buchanan Co.; one 20 ft. rein.-con. slab span, etc., over West Dog Creek, Daviess Co.; one 30 ft. I-beam and four 16 ft. timber spans, etc., over railroad tracks, DeKalb Co.; three 100 ft. rein.-con. arch spans, etc., over Sac River, Greene Co.; one 30 ft. rein.-con. girder span, etc., over Pipes Creek, and three 45 ft. rein.-con. deck girder spans, etc., over Sulphur Creek, Howard Co.; two 10 ft. rein.-con. slab spans, etc., over stream, three 20 ft. rein.-con. slab spans, etc., over Hickory Creek, three 20 ft. rein.-con. slab spans, etc., over Turkey Creek, four 20 ft. rein.-con. slab spans, etc., over Turkey Creek Overflow, one 40 ft. rein.-con. deck girder span, etc., over Little Turkey Creek, three 30 ft. rein.-con. deck girder spans, etc., over Big Parsons Creek, fifteen 20 ft. rein.-con. slab spans, etc., over Big Parsons Overflow, three 30 ft. rein.-con. deck girder spans, etc., over Little Parsons Creek, one 86 ft. steel truss and eight 20 ft. I-beam spans, etc., over Muddy Creek Overflow, twenty-two 20 ft. I-beam spans, and one 80 ft. steel truss span, etc., over Locust Creek Overflow, one 80 ft. steel truss, and four 20 ft. rein.-con. slab spans, etc., over Locust Creek, all foregoing in Linn Co.; three 20 ft. rein.-con. slab spans, etc., over McDougal Branch, Newton Co.; two 30 ft. and one 40 ft. rein.-con. deck girder spans, etc., over Panther Creek, St. Clair Co.; one 12 ft., two 14 ft. and two 24 ft. rein.-con. slab spans, etc., over drainage ditch, Stoddard Co.; three 10 ft. and two 12 ft. rein.-con. slab spans, etc., over stream, one 60 ft. steel truss span, etc., over Robinson Creek, and two 80 ft. steel truss spans, etc., over Clear Creek, all foregoing in Vernon Co.; two 8 ft. and one 20 ft. rein.-con. slab spans, etc., over stream, one 20 ft. rein.-con. slab span, etc., over branch Turkey Creek, two 25 ft. deck girder spans, etc., over Frazier Creek, one 30 ft. rein.-con. deck girder span, etc., over Wards Creek, one 45 ft. rein.-con. deck girder span, etc., over Turkey Creek, one 45 ft. and two 30 ft. rein.-con. deck girder spans, etc., over Bear Creek, and one 40 ft. rein.-con. deck girder spans, etc., over Bounds Creek, all foregoing in Wayne Co. B. H. Piepmeier, ch. engr. Noted Jan. 21.

Tex., Falfurrias — See "Streets and Roads."

Washington — Feb. 16, by State Hy. Dept., Olympia, one 126 ft. steel through, two 82 ft. and one 55 ft. concrete T-beam spans, etc., on State Rd. 1, between Chehalis and Cowlitz, Chehalis & Cascade R.R. tracks, Lewis Co. J. W. Hoover, highway engr.

Wash., Wenatchee — Feb. 3, by Comrs. Chelan Co., one 15 ft., two 37½ ft. two 45 ft. and one 52½ ft. rein.-con. T-beam spans, etc. over Dry Gulch, near here. To exceed $25,000. J. Duff, Wenatchee, co. engr.

Ont., London — Feb. 15, by C. Talbot, engr., County Bldg., 4 steel bridges in Middlesex Co. $90,000. Noted Dec. 17.

BIDS RECEIVED

South Carolina—See "Streets and Roads."

Ill., Rockford—See "Contracts Awarded."

CONTRACTS AWARDED

North Carolina — State Hy. Dept., Raleigh, to J. S. Bowers, Whiteville, rein.-con. bridges, etc. on Project 6610, Richmond Co., 24 cu.yd. Class "AA" concrete at $35 per cu.yd. 824 cu.yd. Class "A" concrete $28, 130,050 lb. reinforcing $0.055, etc., total $32,109. Noted Dec. 24.

North Carolina — State Hy. Dept., Raleigh, to J. M. Gregory & Co., Spartanburg, S. C., rein.-con. bridges on Project 755, Stokes Co., 59 cu.yd. Class "A A" concrete at $35 per cu.yd., 2,121 cu.yd. Class "A" concrete $28, 319,700 lb. reinforcing $0.05, etc., total $82,143. Noted Dec. 24.

Miss., Vicksburg — Warren Co., bridge over Yazoo River at Snyders Bluff, to Meyer & Greenwald Constr. Co., Meridian, $241,222. Noted Oct. 8.

Mich., Wyandotte—City, 25 ft. rein.-con. bridge, 40 ft., over Ecorse Creek, at Emmons Blvd., to A. Phelps & Sons, Ann Arbor, about $25,000. Noted Dec. 24.

Ill., Rockford—Bd. Local Impvts., J. H. Hallstrom, pres., west approach and river span of 6 span 1,446 ft. rein.-con. bridge across Rock River, to Standish Eng. Co., 400 North Michigan Blvd., Chicago, $195,208; east viaduct approach of above bridge, from Powers-Thompson Constr. Co., 221 South Chicago Ave., Joliet, $81,046. This corrects report in Jan. 7 issue.

Kan., Coffeyville—Clerk Montgomery Co. (Independence), two 82 ft. and one 122 ft. span concrete arch bridge, on Federal Aid Project 332, near here, to Fifield Constr. Co., L. & J. Bank Bldg., Waterloo, Ia., $40,856. Engrs. est. $42,000. Noted Dec. 10.

Kan., Howard—See "Streets and Roads."

Kan., Wellington—Sumner Co., bridges on Federal Aid Project 323-A and B, to Wilson Constr. Co., Warrensburg, Mo., $102,994; culverts on road road, to Schultz Constr. Co., Parsons, $20,663.

Tex., Orange — Orange Co., 2,717 ft. creosoted pile trestle bridge, 18 ft. roadway, across Old River Cove, on Orange-Port Arthur Highway, State Aid Project 664, to A. C. McFarlane, Orange, $49,315. Noted Jan. 21.

California—State Hy. Dept., Sacramento, 0.7 mi. timber trestle across Big Lagoon, grading and surfacing, etc., 0.7 mi. road between point ½ mi. west and point ½ mi. east Big Lagoon, Humboldt Co., to Mercer-Fraser Co., Eureka, $140,251. Engrs. est. $159,630. Noted Dec. 31.

Dams

PROPOSED WORK

Pa., Lock Haven — See "Waterworks under Bids Desired."

Texas—City of Corpus Christi, Nueces Co. (Corpus Christi), Jim Wells Co. (Alice), San Patricio Co. (Sinton) and Live Oak Co. (George West) making surveys 5,500 ft. concrete dam across Nueces River near Sandia, impounding sufficient water for 140,000 irrigated acres in above counties for irrigation and domestic purposes, and supplying city of Corpus Christi with 100,000 cu.ft. per second. $3,500,000. Address H. Levinson, Corpus Christi, city engr.

Ontario—See "Buildings—Industrial."

Railways

PROPOSED WORK

Pennsylvania—Pennsylvania R.R. Co., A. C. Shand, ch. engr., Broad St. Sta., Phila., and Baltimore & Ohio R.R. Co., E. A. Lane, ch. engr., Baltimore and Charles Sts., Baltimore, Md., plan elevating railroad 25th and Washington Sts. to Passyunk Ave. and Greys Ferry Rd. between Schuylkill and Delaware Rivers; also relocating and completing viaduct. $3,000,000.

Mississippi—Illinois Central R.R. Co., 135 East 11th Pl., Chicago, Ill., A. F. Blaess, ch. engr., plans additional track in northern part of Jackson, Miss. T. J. Quigley, McComb City, div. supt.

Missouri—See "Waterworks" under St. Louis.

Texas—See "Unclassified" under Collado (mail Lobo).

BIDS DESIRED

Illinois—See "Buildings—Industrial" under Kankakee.

Excavation, Drainage, Irrigation, Levees River and Harbor

PROPOSED WORK

Ind., New Castle—Henry Co. plans draining 50 mi. Blue River, extending through 10 townships, etc. $100,000. W. S. Freel, New Castle, surv.

Ia., Onawa — Monona Co. takes bids about Mar. 1, 210,000 cu.yd. excav. in open ditch. C. B. Zorn, Court House, engr.

Texas—See "Dams."

Calif., Vallejo—Making surveys reclamation of marsh lands, channel dredging, changing of bulkhead and pierhead lines, sub-dividing city owned tidelands and construction piers and wharves. T. D. Kilkenny, city engr.

BIDS DESIRED

Florida—See "Streets and Roads."

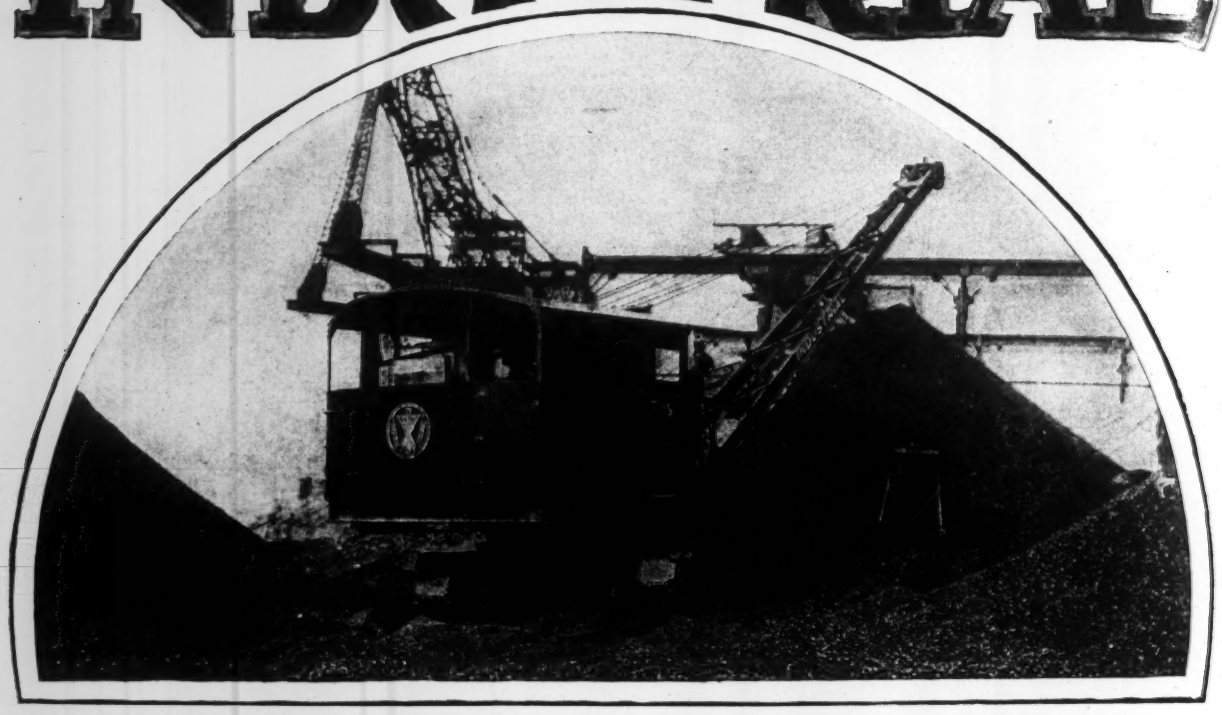
Fla., Lake Wales—Feb. 3, by City Comn., dredging and improving lake front, 150,000 cu.yd. fill. Bishop Eng. Co., Box 477, Orlando, engrs.

Fla., Sarasota—E. J. Bacon, mayor, taking bids approximately 1,800,000 cu.yd. dredging, etc., in Sarasota Harbor. J. M. Braxton, Harbor engr.; adv. E. N.-R. Jan. 28.

Fla., St. Augustine—Feb. 18, by City Bd. Trustees, reclamation marsh or submerged lands, etc. J. E. Craig, 427 King St.,

See proposal advertisements on page 100, Advertising Section.

INDUSTRIAL



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INDUSTRIAL WORKS · BAY CITY · MICHIGAN

Excavation, Drainage, Irrigation, Levees, River and Harbor (Cont.)

Jacksonville, consult. engr.; adv. E. N.-R. Jan. 28.

Kan., Garden City—Jan. 30, by Finney Co. Water Users Assn., C. A. Danner, pres., 9.75 mi. irrigation canals, 300,000 cu.yd. excav. $40,000. B. L. Allen, Garden City, engr.

Ia., Oskaloosa — Feb. 10, by Auditor Mahaska Co., cutting new 7 mi. channel for South Skunk River in D. D. 6, Sect. 1, 159,-615 cu.yd. excav., and Sect. 2, 190,708 cu. yd. Noted Jan. 8, 1925.

Calif., Grass Valley—Feb. 5, by Directors Nevada Irrigation Dist., improving 6,050 ft. Sect. 1 Bowman Lake Mt. Rd., 5,900 cu. yd. excav., 6,400 sq.yd. surfacing, timber bridge and 7 culverts, etc. F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, dist. engr.

CONTRACTS AWARDED

Mich., Monroe — Lane Steamship Line, dredging 5,400 ft. channel 150 ft. wide, 15 ft. deep into Lake Erie and deepening canal at Monroe Pier, to Dunbar & Sullivan, 2312 Buhl Bldg., Detroit.

Ia., Onawa—Monona Co., approximately 97,000 cu.yd. excav. in Gray D. D., etc., to Boyne Constr. Co., Council Bluffs, $12,043.

Tex., Galveston—See "Unclassified."

Tex., Rockport—Breakwater and dredging harbor in front of here, to D. M. Picton & Co., Rockport, approximately $55,000.

Streets and Roads

PROPOSED WORK

Mass., Boston — Plans loop highway across city from Charles River Dam to corner Bway. and Albany Sts. $27,837. Private plans.

Conn., Meriden — Plans paving various streets. $75,000 appropriated. C. P. Prann, city engr.

New Jersey—State Hy. Dept., Trenton, plans concrete paving approximately 1 mi. Absecon Cutoff, 40 ft., Route 3, Atlantic Co., 1 mi. Clinton Cutoff, 20 ft., Route 9, Hunterdon Co., and 1 mi. Dover Cutoff, 20 ft., Morris Co.; also shale paving approximately 5 mi. High Point Road, 20 ft., Sussex Co. W. G. Sloan, Trenton, highway engr.

N. J., Dover—Sussex Co. (Newton) plans improving 6 mi. Swartswood Lake Rd. with state aid, here. H. Snook, Newton, engr.

N. J., Summit — Union Co. (Elizabeth) plans improving 1 mi. Morris Ave., here, with state aid. J. L. Bauer, 120 Broad St., Elizabeth, engr.

N. J., Trenton—City Comn. soon takes bids widening and relocating 1 block West State St. from Chancery Lane to Willow St. $40,000. J. E. English, City Hall, engr.

Pa., Morrisville — Plans concrete paving South Pennsylvania Ave., 30 ft. D. S. Mershon, chn. Street Com. State Aid appropriates toward cost. Engineer not selected.

W. Va., Charleston — Jefferson Dist., Kanawha Co., election Feb. 9, $275,000 bonds, improving roads. R. R. Barton, Charleston, co. engr.

W. Va., Morgantown—Clay Dist. plans election $525,000 bonds and Grant Dist. $465,000 bonds improving roads, in Monongalia Co. A. J. Baritell, Morgantown, co. engr.

Fla., Miami — Plans grading, curbing, guttering, and sheet asphalt paving 10,300 sq.yd. Northwest 7th Ave. from Northwest 5th to 11th Sts., Impvt. H-310 $35,000, 1,800 sq.yd. Northwest 5th St. from Northwest 1st Ave. to point 150 ft. east of Northwest First Court Impvt. H-312 $9,000, and 2,500 sq.yd. Impvt. H-305 $9,000; grading, curbing, guttering, widening and sheet asphalt paving 6,500 sq.yd. Northwest 5th St. from Bay Shore to Northwest 1st Ave., Impvt. H-311, $40,000. B. M. Duncan, Miami, engr.

Ala., Attalla — Plans paving various streets. $40,000.

La., Slidell—Eighth Ward, St. Tammany Parish plans graveling various roads. $150,000.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about Feb. 18, probably concrete surfacing, 7.5 mi. Tipton Co. line-Shelby Co. line Rd., Fayette Co., and 11.5 mi. Greenville-Washington Co. line Rd., Green Co., both 18 ft. C. N. Bass, acting, comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about Feb. 22, probably concrete paving, 7 mi. Dyersburg-Lauderdale Rd., Dyer Co.; and 6.5 mi. Trenton-Dyer Rd., Gibson Co. C. N. Bass, acting comr.

Tenn., South Pittsburg—Election Feb. 15, $70,000 bonds, paving and sewers in various streets.

O., Akron — Summit Co. takes bids in spring macadamizing 4 mi. Massillon Rd. south of here, 16 ft. $160,000.

O., Canton—Bd. Control soon takes bids improving Hartung Pl. N. E., from Cherry Ave. N. E. to Spring Ave. N. E. $30,000. W. E. Sarver, City Hall, engr.

O., Lisbon—Columbiana Co. soon takes bids improving 1.25 mi. Pine Lake Rd. from Pine Lake to Cox Highway, 16 ft. $40,-000. L. A. Kirk, Lisbon, engr.

O., Marion — Marion Co. takes bids in spring improving Mt. Vernon Rd. 3 mi. east to Mud Pike, $50,000; and rebuilding 3 mi. Smeltzer Pike, 16 ft., $42,500.

O., Ravenna—Portage Co. takes bids in spring improving 1 mi. New Milford Rd., 16 ft. $40,000.

Ind., Auburn—De Kalb Co. plans grading and graveling 4.2 mi. Nicholls Rd., 26 ft. $27,000. C. Klain, Auburn, engr.

Ind., Decatur—Adams Co. plans waterbound macadam paving 3 mi. Fetters Rd., $27,500; 2.7 mi. Boerger Rd., $27,000; and 2.9 mi. Gerbert Rd., $28,000, all 26 ft. D. Boch, Decatur, engr.

Ind., Fort Wayne—O. M. Darling, engr., Fort Wayne, rejected bids Dec. 19, concrete surfacing 23,232 sq.yd. Seddlemeyer Rd., for Allen Co. $57,119. Will readvertise. Noted Dec. 17.

Ind., Hartford City—Plans sheet asphalt on concrete paving 10,560 sq.yd. East Commercial Rd., $25,500, and 12,820 sq.yd. Weber Rd., $26,200.

Ind., Indianapolis—Marion Co. plans concrete paving 3½ mi. Tibbs Ave. from Washington to 13th Sts., $110,000; 1¼ mi. Allisowille Rd. along Fairgrounds to Keystone Ave., 20 ft., $47,000; also 3 mi. Acton Rd., 20 ft., $102,000. W. W. Southard, Court House, engr.

Ind., Plymouth—Marshall Co. plans grading and graveling 4 mi. Lake Rd., 26 ft. $26,000. J. Hildebrand, Plymouth, engr.

Ind., Terre Haute—Vigo Co. plans concrete paving 10,560 sq.yd. Jackson Rd., $25,942; 12,320 sq.yd. Fisbeck Rd., $28,-800; and 8,800 sq.yd. Fisbeck Rd., Sect. 2, $26,896. G. Grimes, 1006 South Center St., Terre Haute, engr.

Mich., Detroit—Making plans 3½ in. sheet asphalt on 8 in. concrete paving, etc. 1,900 sq.yd. Amos Ave. from Ohio to Oakman Highway $8,640, 12,800 sq.yd. Doris Ave. from Linwood to Livernois Aves. $57,580, 3,240 sq.yd. Otto Ave. from Ohio to Esper Aves. $14,580, and 2,400 sq.yd. Cedar Grove Ave. from Chalmers to Celestine Aves. $42,000; also 9,350 sq.yd. Illene Ave. from Fullerton to Schoolcraft Aves., $42,000. P. A. Fellows, City Hall, engr.

Ill., Bellewood—Takes bids about June 1, grading, curbing and concrete paving various streets. $400,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Bensenville—Takes bids about Aug. 1, grading, curbing and concrete paving various streets. $200,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Brookfield—Takes bids about June 1, grading and paving concrete sidewalks, $100,000; and concrete paving various streets, $40,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Decatur—Takes bids in spring, grading, curbing and vibrolithic paving 3½ blocks St. Louis Ave., 28 ft. $33,213. M. P. O'Brien, City Hall, engr.

Ill., Elmhurst—Takes bids about May 1, grading, curbing and bituminous macadam paving various streets. $500,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Elmwood Park (mail Chicago) — Takes bids about June 1, grading, curbing and concrete paving various streets. $900,-000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Evergreen Park—Takes bids about July 1, grading, paving and concrete sidewalks on various streets. $100,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Hillsboro—Montgomery Co., H. H. Blackburn, chn. Road & Bridge Comn., and C. E. Landers, chn. Finance Comn, Hillsboro, take bids latter part February 50 cars road oil on various roads $25,000. P. M. Bandy, Court House, supt. highways.

Ill., La Grange—Takes bids about June 1, grading, curbing and concrete paving various streets. $100,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., La Grange Park (La Grange P. O.) —Takes bids about Mar. 1, grading, curbing and asphalt paving, etc., various streets. $80,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., La Grange Park (La Grange P. O.)—Takes bids about June 1, asphalt paving various streets. $200,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Morton Grove—Takes bids about May 1, grading, curbing and concrete paving various streets. $100,000. E. Hancock, 2047 Ogden Ave., Chicago, engr.

Ill., Peoria—Peoria Co. plans 9 in. graveling 35 mi. various roads, 12 ft. $50,000. W. E. Emery, Court House, engr.

Ill., Staunton—City and State Dept. Pub. Wks. & Buildings, Springfield, take bids about Apr. 13, grading, curbing and concrete paving 8,200 ft. Main St. (State Highway 4), 30 ft. W. A. Fuller Co., 1917 Ry. Exch. Bldg., St. Louis, Mo., engrs. Noted Oct. 1.

Wis., Merrill—H. R. Allen, city clk., plans vibrolithic concrete paving Parkway between 3rd and Merrill Sts., Merrill St. between Parkway and Prospect St., 1st St. between Center and Mill Sts., Mill St. between 1st and 3rd Sts., Scott St. between 1st and 3rd Sts., South Genessee St. between railroad tracks and West Main St., also Poplar St. between 1st and Main Sts. To exceed $25,000. Engineer not selected.

Wis., North Milwaukee (Milwaukee P. O.) —Making plans various types paving approximately 35 blocks 15 streets, also 13 alleys. W. E. Chase, city clk.

Wis., Sheboygan Falls — L. Kalk, city clk., making plans improving concrete curbing, guttering, grading and rein.-con. paving, etc., 33,117 sq.yd. 13 streets. J. Donohue Eng. Co., 608 North 8th St., Chicago, Ill., engrs.

Ia., Harlan—Shelby Co. plans grading, etc., 12.5 mi. Harlan-Defiance Rd., during 1928. $154,000. F. W. Sarvis, Harlan, engr.

Ia., Harlan—Shelby Co. plans graveling 22 mi. Routes 4 and 7 from Harlan south to Harrison-Shelby Co. line on 39, during 1927. $84,000. F. W. Sarvis, Harlan, engr.

Ia., Harlan — Shelby Co. making preliminary plans improving 12 mi. Primary Road 7, and finish grading Primary Rd. 39, through Portsmouth, etc., during 1926. $75,000. F. W. Sarvis, Harlan, engr.

Ia., Marshalltown—Soon takes bids curbing, guttering and paving 20 blocks various streets. $70,000. A. McMahon, city clk.

Minn., Fairmont—W. R. Sturgeon, city clk., making plans paving ½ mi. Tilden St. $25,000. T. Custis, city engr.

Minn., Hibbing—J. L. G. Colob, city clk., making plans paving 2 mi. Iron Junction Rd. $50,000.

Montana—State Hy. Dept., Helena, made plans and takes bids in March, grading and 15 ft. gravel surfacing 15.5 mi. Billings-Hardin Highway, Yellowstone Co.; $125,-000; and 7.5 mi. Ravalli-Dixon Highway, Federal Aid Project 197, Sanders Co., $58,-000. State Hy. Dept., Helena, engrs.

Montana — State Hy. Dept., Helena, making plans grading and 16 ft. gravel surfacing, etc. 13 mi. Blackfeet Highway, Federal Aid Project 226, $140,000; and 24 mi. Blackfeet Highway, Federal Aid Project 227—A and B, $250,000, both in Glacier Co. State Hy. Com., Helena, engrs.

Mont., Shelby — Made plans gravel and concrete or asphalt paving, etc. 0.7 mi. Main St. Federal Aid Project 225, 24 ft. $30,000.

Mo., Kansas City — Making preliminary plans boulevard from 12th St. and Van Brunt Blvd. to east city limits. $300,000. P. McGeehan, city engr.

Mo., Kansas City — Making preliminary plans paving various streets in downtown dist. $150,000. P. McGeehan, city engr.

Mo., St. Joseph — Making preliminary plans grading, curbing and paving 16 blocks 6th and 5th Ave, Seneca, 18th, Charles and Sylvanie Sts. W. K. Seitz, City Hall, engr.

Arkansas—State Hy. Dept., Little Rock, making preliminary plans grading and hardsurfacing 2 mi. Hot Springs-Malvern Rd., 18 ft. R. C. Limerick, state engr.

Ark., Benton—Soon takes bids grading, curbing and concrete paving 1.25 mi. streets in Paving Dist. 1, 18 ft. A. M. Lund, 528 Southern Trust Bldg., Little Rock, engr.

Ark., Hot Springs — Making preliminary plans grading, curbing and hardsurfacing 10 blocks various streets in vicinity of high school. C. Smith, City Hall, engr.

Ark., Pine Bluff — Making preliminary plans grading, curbing, etc., Laurel, Oak, Elm and Poplar Sts. from Barrague to 6th Sts., Dist. 90, and Pullen St. from Cedar to Walnut Sts., and Walnut St. from Pullen to Barrague Sts., Dist. 92, also storm sewers in Dists. 1 and 2. R. E. Lee, city clk.

Tex., Abilene—Taylor Co. making plans grading and 4 concrete bridges over 20 ft. span on 5.74 mi. State Highway 1 from Callahan Co. line to here, 26 ft. $45,300. L. C. McCanlies, Abilene, co. engr.

Tex., Abilene — Plans warrenite bitulithic paving 7 blocks North 2nd St. from

See proposal advertisements on page 100, Advertising Section.

Streets and Roads (Continued)

Ash St. to Cedar Creek, and North 19th St. from Grape to Hickory Sts. $40,000. O. K. Hobbs, city engr.

Tex., Alice—Voted $50,000 bonds paving various streets. J. H. Briggs, Alice, engr. Noted Jan. 7.

Tex., Anderson—Grimes Co. made plans and soon takes bids grading and bridging, etc. 5.09 mi. State Highway 90 from Navasota to Madison Co. line, 26 ft. $37,300. O. A. Seward, Jr., Navasota, engr.

Tex., Austin—Travis Co. made plans and soon takes bids grading and bridging, etc. 4.85 mi. State Highway 20, 26 ft. $53,800. J. E. Motheral, 722 Cong. Ave., engr.

Tex., Austin—Travis Co. made plans and soon takes bids double bituminous surface treating 7.89 mi. Austin-Fredericksburg Highway, 18 ft. $80,600. J. E. Motheral, 722 Cong. Ave., engr.

Tex., Barstow—Ward Co. making plans grading, bridging and caliche surfacing 4.6 mi. State Highway 1, 16 ft. $148,000. S. S. Posey, Pecos, engr.

Tex., Bay City—Matagorda Co., making plans grading, bridging and oyster shell surfacing 33.9 mi. State Highway 58, 18 ft. $431,700. E. N. Gustafson, Bay City, co. engr.

Tex., Boston — Bowie Co. election soon $250,000 bonds paving 72,000 sq.yd. Beverly Heights. D. K. Caldwell, Boston, co. engr.

Tex., Brownsville — Cameron Co. plans hard paving 7 mi. Ocean Beach Dr., 25 ft. $75,000. A. E. Anderson, Brownsville, engr.

Tex., Burnet — Burnet Co. election soon $310,000 bonds, hard paving main highways. Address County Engineer, Burnet.

Tex., Childress—Childress Co. making preliminary plans grading and bituminous paving about 40 mi. Highway 40, 18 ft. $1,200,000. L. O. Cox, Childress, div. highway engr.

Tex., Floydada—Floyd Co. making plans grading, bridging and graveling 13 mi. Main Highway. $160,000. G. A. Lider, Floydada, co. engr.

Tex., Galveston — Galveston Co. plans election in February, $150,000 bonds, improving approximately 9 mi. Port Arthur-Galveston Highway, from Port Bolivar to High Island. C. C. Washington, Galveston, co. engr. Noted Dec. 31.

Tex., Grand Prairie — G. H. Turner, mayor, soon takes bids paving 9,800 yds. various streets. $28,000. Former bids rejected. Koch & Fowler, Central Bank Bldg., Dallas, engrs.

Tex., Groveton — Trinity Co. making plans clearing, grubbing, bridging and grading 23.5 mi. Groveton Lufkin Rd., $230,000; and 9.3 mi. Groveton-Corrigan Rd., $50,000, both 26 ft. J. O. Booker, Lufkin, resident engr.

Tex., Halletsville—Lavaca Co. plans ½ in. limestone rock asphalt on gravel paving 14.23 mi. State Highway 3-B, Federal Aid Project 373-B, Unit 2, 16 ft. $221,000. W. H. Koether, Halletsville, co. engr.

Tex., Madisonville—Madison Co. making plans grading and bridging 12.5 mi. State Highway 45, from Madisonville to North Zulch, 26 ft. $90,000. A. McCormack, Madisonville, co. engr.

Tex., Richmond—Ft. Bend Co. soon take bids rein.-con. paving 15 mi. State Highway 3, Federal Aid Project 326 Unit 2, 18 ft. $450,000. C. H. Kendall, Sugarland, co. engr.

Tex., San Antonio — Bexar Co. making plans graveling 5 mi. St. Hedwig-Elmendorf Rd. $60,000. A. C. Pancoast, c/o Courthouse, co. engr.

Tex., Seymour—Baylor Co. made plans and soon takes bids 18 ft. concrete and bituminous macadam paving 13.68 mi. State Highway 30, Federal Aid Project 4 2-A, Unit 2. $195,000. J. G. Rollins, Seymour, resident engr.

Tex., Waxahachie — Ellis Co. making plans grading, bridging, etc., 0.866 mi. State Highway 34, 26 ft. $27,000. W. A. Spalding, Waxahachie, co. engr.

Tex., Wharton — Voted $85,000 bonds, permanent paving Burleson St. to connect with Milan and Fulton Sts., etc. E. D. King, city engr. Noted Jan. 7.

Oklahoma — State Hy. Dept., Oklahoma City, making surveys grading, etc. 7 mi. Poteau-Howe Rd., State Road 18, Le Flore Co., $40,000 and 28 mi. Spiro-Stigler Rd., State Aid Project 295-A, B, C, D and E, Haskel Co., $60,000, both 30 ft. J. M. Page, highway engr.

Oklahoma—State Hy. Dept., Oklahoma City, made surveys grading, etc., 19 mi. Goteba-Lone Wolf Rd., 30 ft. $50,000. J. M. Page, highway engr.

Oklahoma — State Hy. Dept., Oklahoma City, made surveys grading, etc. 11 mi. Grainola-Burbank Rd., 30 ft., Osage Co. $45,000. J. M. Page, highway engr.

Okla., Frederick—Plans paving 15 blocks various streets. Benham Eng. Co., 512 Gumble Bldg., Kansas City, Mo., engrs.

Okla., Guthrie—Defeated $85,000 bonds, paving 14 blocks Vilas, Logan, 11th and Washington Sts., 30 ft. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Jan. 7.

Okla., Wilson—Plans grading, curbing and concrete paving 14,720 sq.yd. various streets. $46,620. C. Coon, 1820 Bway., Oklahoma City, engr.

Washington—Feb. 16, by State Hy. Dept., Olympia, clearing, grading, etc., 3.1 mi. road from Jared north, Pend Orelle Co., State Rd. 6, and 1 mi. State Rd. 8, Skamania Co.; crushed rock resurfacing 7,100

SUBWAY—NEW YORK, N. Y.

Bids were opened by Board of Transportation, 49 Lafayette St., Dec. 8, for constructing Route No. 102, Sect. No. 3, along and under 8th Ave., from West 28th to West 37th Sts., (A) Rosoff Subway Construction Co., 331 Madison Ave.; (B) P. McGovern, Inc., 50 East 42nd St.; (C) Underpinning & Foundation Co., 342 Madison Ave.; (D) Coleman Bros., Inc., 80 Maiden Lane; (E) Heyman & Goodman, 236 West 116th St. The unit bids are as follows:

	A	B	C	D	E
200,000 cu.yd. earth excavation	$12.50	$14.00	$12.60	$12.50	$12.00
23,000 cu.yd. rock excavation	17.50	14.00	12.60	16.00	20.00
27,000 cu.yd. concrete masonry	23.00	27.20	27.00	23.00	24.00
155,000 sq.ft. rubbing of concrete	.12	.10	.15	.13	.10
3,800 cu.yd. protective concrete masonry	23.00	27.20	27.00	23.00	24.00
500 cu.yd. rubble stone masonry	15.00	14.00	20.00	13.00	15.00
10 cu.yd. dry rubble masonry	12.00	14.00	20.00	12.00	15.00
150 cu.yd. brick masonry	45.00	50.00	60.00	50.00	40.00
3,200 cu.yd. removal and disposal of old masonry	20.00	20.00	54.00	40.00	40.00
200 sq.yd. vitrified brick lining for sewers	7.00	7.00	7.00	6.00	6.00
100 cu.yd. hollow terra cotta brick or tile masonry	45.00	50.00	60.00	40.00	40.00
100 bbl. grout of Portland cement	6.00	8.00	5.00	7.00	6.00
20 sq.yd. resurfacing old concrete masonry	2.00	2.00	5.00	6.00	5.00
100 sq.yd. plastering on hollow tile at D. M.	2.00	2.00	2.00	2.00	2.00
20 cu.yd. broken-stone or gravel	7.00	6.00	5.00	5.00	7.00
12,300 sq.yd. waterproofing—1 ply	1.25	1.25	1.00	1.00	1.00
24,000 sq.yd. waterproofing—3 ply	3.00	3.00	3.00	2.50	3.30
100 sq.yd. waterproofing—5 ply	4.50	4.50	5.00	4.50	5.00
100 sq.yd. waterproofing—6 ply	5.50	6.00	6.00	5.50	6.00
100 sq.yd. waterproofing—dry ply	1.00	1.00	1.00	.90	1.00
600 cu.yd. one layer brick in mastic	50.00	55.00	50.00	55.00	50.00
400 cu.yd. two layers brick in mastic	46.00	55.00	48.00	50.00	50.00
2,200 lin.ft. 3-in. cast iron pipe and fittings	2.00	1.25	1.00	1.50	1.50
350 lin.ft. 4-in. cast iron pipe and fittings	2.50	1.50	1.20	2.00	2.00
450 lin.ft. 6-in. cast iron pipe and fittings	3.00	2.50	1.80	2.50	3.50
2,200 lin.ft. 8-in. cast iron pipe and fittings	4.00	3.00	2.40	3.50	5.00
100 lin.ft. 3-in. standard galvanized steel pipe	2.00	1.25	1.00	1.50	1.50
250 lin.ft. 4-in. standard galvanized steel pipe	2.50	1.50	1.20	2.00	2.50
50 lin.ft. 6-in. standard galvanized steel pipe	3.50	3.00	1.80	3.50	4.00
120 lin.ft. 8-in. standard galvanized steel pipe	5.00	4.00	2.40	5.00	7.00
50 lin.ft. 10-in. standard galvanized steel pipe	7.00	6.00	3.00	6.00	10.00
156,000 duct.ft. tunnel ducts	.25	.30	.40	.25	.30
360 conduit ft. 3-in. fibre conduits	.50	.30	.60	.50	.50
4,450 ton riveted steel, painted and erected—standard shapes	128.00	140.00	122.00	130.00	130.00
4,200 ton riveted steel, painted and erected—Bethlehem shapes	136.00	150.00	130.00	135.00	137.75
40 ton removal and disposal of old steel	50.00	30.00	100.00	100.00	100.00
3 ton arch. steel and iron—stairs, ladders, pipe railings, etc.	400.00	400.00	600.00	400.00	400.00
450 sq.ft. sliding doors with steel panels	6.00	6.00	7.00	5.00	6.00
4 exit covers	500.00	600.00	600.00	500.00	1,000.00
2,250 sq.in. cutting old steel	2.00	.80	.50	.50	1.00
28,800 hole drilling holes in old steel	.50	.25	1.00	1.00	1.00
2,200 removing rivets in old steel	.75	.20	.70	1.00	1.50
190 ton steel rods and bars built in concrete	120.00	100.00	110.00	120.00	120.00
9 ton miscellaneous iron castings	250.00	200.00	240.00	200.00	200.00
3,700 lb. special wire forms	.26	.25	.20	.20	.30
3,900 lin.ft. 1½-in. oak or ash handrail	.60	.60	.50	.70	1.20
6,300 sq.ft. steel gratings for ventilation	5.00	4.00	4.00	4.00	4.50
10,200 sq.yd. sidewalk restoration	3.00	2.00	3.60	3.00	3.00
9,400 sq.yd. street repavement—asphalt	5.00	4.50	4.00	5.00	5.00
5,000 sq.yd. street repavement—granite block	5.00	8.00	3.00	5.00	6.00
2,000 sq.yd. street repavement—Belgian block	4.50	7.00	3.00	5.00	6.00
100 lin.ft. 6-in. bluestone curb	4.00	2.50	3.00	3.00	3.00
2,300 sq.yd. street repavement—wood block	5.00	6.00	5.50	5.00	6.00
100 lin.ft. new 8-in. granite curb	6.00	4.00	6.00	4.00	8.00
350 sq.yd. upper 3-in. of concrete walls	2.50	3.00	6.00	2.50	4.00
18,800 sq.yd. temporary pavement of granite blocks	2.50	4.00	2.00	3.00	3.00
26,500 lin.ft. ¾-in. electric conduits in place	.40	.40	.20	.40	.50
50 lin.ft. 1¼-in. electric conduits	.60	.80	.40	1.00	1.00
10 lin.ft. 2-in. electric conduits	1.00	1.00	.60	1.30	2.00
11,000 lin.ft. 1-in. electric conduits	.50	.50	.30	.90	.80
10 lin.ft. 3½-in. electric conduits	2.00	2.00	1.50	3.00	5.00
1,650 cast iron outlet boxes	2.00	2.50	2.00	3.00	2.00
10 cast iron pull boxes—6x6x4 in.	8.00	6.00	6.00	6.00	4.00

See proposal advertisements on page 100, Advertising Section.

	A	B	C	D	E
1 cast iron pull box—6x12x3 in.	10.00	15.00	15.00	25.00	10.00
160 lin.ft. 6-in. cast iron pipe and fittings	3.00	3.00	1.80	3.50	3.00
210 lin.ft. 3-in. cast iron pipe and fittings	2.00	1.50	1.00	2.50	2.00
10 lin.ft. 4-in. cast iron pipe and fittings	2.50	2.50	1.20	3.00	2.50
300 lin.ft. 8-in. cast iron pipe and fittings	4.50	3.50	2.40	4.00	5.00
900 lin.ft. 12-in. vitrified sewer pipe	8.00	10.00	4.50	7.00	8.00
200 lin.ft. 15-in. vitrified sewer pipe	10.00	15.00	6.00	8.00	10.00
300 lin.ft. 24-in. vitrified sewer pipe	12.00	18.00	10.00	13.00	15.00
700 ton cast iron (straight pipe) sewer pipe	140.00	125.00	80.00	120.00	120.00
350 ton cast iron special casting sewer pipe	200.00	200.00	180.00	300.00	250.00
950 lin.ft. concrete sewers 3 ft. 6 in. x 2 ft. 4 in.	20.00	25.00	27.00	20.00	25.00
50 lin.ft. concrete sewers 4 ft. x 2 ft. 6 in.	24.00	30.00	30.00	25.00	30.00
230 lin.ft. concrete sewers 4 ft. 6 in. x 2 ft. 10 in.	28.00	35.00	30.00	35.00	35.00
450 lin.ft. concrete sewers 3 ft. 9 in. x 2 ft. 4 in.	24.00	30.00	25.00	25.00	30.00
230 lin.ft. concrete sewers 4 ft. 9 in. x 3 ft.	28.00	31.00	30.00	30.00	40.00
250 lin.ft. concrete sewers 6 ft. x 5 ft. 6 in.	40.00	45.00	60.00	50.00	60.00
250 lin.ft. concrete sewers 6 ft. 4 in. x 5 ft. 6 in.	50.00	50.00	60.00	50.00	65.00
50 lin.ft. concrete sewers 5 ft. 6 in. x 4 ft. 10 in.	30.00	40.00	55.00	40.00	55.00
250 lin.ft. 76 in. riveted steel pipe sewer in place	80.00	50.00	100.00	60.00	70.00
5,600 lin.ft. electric railroads (underground trolley)	20.00	10.00	10.00	15.00	10.00
Support Pennsylvania R.R. terminal and tunnel (lump sum)	15,000.00	50,000.00	.....	50,000.00	20,000.00
500 lin.ft. 6-in. water pipe	3.00	2.00	2.00	2.50	3.00
1,700 lin.ft. 12-in. water pipe	5.00	3.00	3.60	4.00	5.00
200 lin.ft. 20-in. water pipe	7.00	7.50	6.00	7.00	8.00
50 service connection for water pipe	50.00	50.00	100.00	50.00	100.00
600 lin.ft. 4-in. cast iron gas pipe	1.50	2.00	1.20	2.00	3.00
2,500 lin.ft. 6-in. cast iron gas pipe	2.00	2.50	2.00	3.00	4.00
1,500 lin.ft. 8-in. cast iron gas pipe	2.50	3.00	2.40	4.00	5.00
600 lin.ft. 10-in. cast iron gas pipe	3.00	3.50	3.00	4.50	8.00
500 lin.ft. 12-in. cast iron gas pipe	3.50	4.00	3.60	5.00	10.00
700 lin.ft. 16-in. cast iron gas pipe	5.00	6.00	4.80	6.00	15.00
300 lin.ft. 20-in. cast iron gas pipe	7.00	8.00	6.00	7.00	20.00
350 lin.ft. 6-in. steel by-pass pipe	8.00	4.00	12.00	8.00	6.00
50 lin.ft. 8-in. steel by-pass pipe	10.00	5.00	16.00	10.00	10.00
100 lin.ft. 10-in. steel by-pass pipe	12.00	6.00	20.00	12.00	15.00
7,000 lin.ft. 12-in. steel by-pass pipe	14.00	7.00	24.00	14.00	18.00
50 lin.ft. 16-in. steel by-pass pipe	20.00	10.00	32.00	16.00	30.00
150 lin.ft. 20-in. steel by-pass pipe	30.00	12.00	40.00	20.00	40.00
50 lin.ft. 4-in. steel by-pass pipe	6.00	3.00	8.00	7.00	5.00
220 lin.ft. 12-in. steel by-pass pipe above street surface	12.00	10.00	20.00	15.00	15.00
220 lin.ft. 16-in. steel by-pass pipe above street surface	14.00	12.00	32.00	18.00	20.00
3,100 lin.ft. 20-in. steel by-pass pipe above street surface	16.00	14.00	40.00	22.00	25.00
2,275 lin.ft. trestle to support by-pass pipe	6.00	10.00	16.00	20.00	10.00
1,000 lin.ft. cable suspension to support by-pass pipe 16-in. diameter or over	12.00	10.00	16.00	15.00	10.00
100 lin.ft. cable suspension to support by-pass pipe under 16 in. diameter	10.00	10.00	16.00	15.00	10.00
50 service connection for gas pipe	50.00	60.00	100.00	40.00	100.00
250 ton new cast iron hub and spigot pipe straight	130.00	100.00	80.00	125.00	120.00
170 ton new cast iron hub and spigot pipe special casting	220.00	200.00	180.00	225.00	240.00
100 lin.ft. 8-in. high pressure water pipe	6.00	4.00	8.00	10.00	6.00
200 lin.ft. 12-in. high pressure water pipe	8.00	6.00	12.00	14.00	10.00
600 lin.ft. 20-in. high pressure water pipe	10.00	8.00	40.00	20.00	15.00
50 ton new cast iron spigot and grooved pipe-straight	150.00	125.00	180.00	125.00	200.00
20 ton new cast iron spigot and grooved special cast	240.00	250.00	300.00	225.00	300.00
275 ton new steel high pressure pipe—straight	220.00	310.00	250.00	325.00	400.00
125 ton new steel high pressure pipe—special cast	360.00	450.00	500.00	400.00	400.00
100 lin.ft. 6-in. air pipe	3.00	2.00	5.00	3.00	1.50
100 lin.ft. 4-in. air pipe	2.50	1.00	4.00	2.00	1.00
100 lin.ft. new 6-in. air pipe	3.50	3.00	4.00	3.00	3.00
100 lin.ft. new 4-in. air pipe	3.00	2.00	3.50	2.00	2.00
7,000 lin.ft. 8-in. mail tube	6.00	5.00	5.00	6.00	6.00
700 lin.ft. new 8-in. mail tube, straight pipe	18.00	10.00	6.00	8.00	8.00
300 lin.ft. new 8-in. mail tube, curved pipe	30.00	50.00	40.00	40.00	40.00
140,000 duct.ft. electric ducts and conduits	.50	.40	.35	.30	.30
70,000 lin.ft. 3½-in. steel pipe	.60	.40	1.00	1.00	1.50
25 service connections for electric conduits	50.00	100.00	100.00	80.00	100.00
25 service boxes on relocated duct lines	160.00	200.00	100.00	200.00	300.00
25 junction boxes on relocated duct lines	360.00	400.00	300.00	400.00	500.00
10 additional boxes on relocated duct lines	500.00	600.00	400.00	500.00	800.00
Extended totals including item 19-A	$5,886,506	$6,131,138	$6,202,625	$6,235,133	$6,295,545
Extended totals including item 19-B	5,888,106	6,138,138	6,205,725	6,223,633	6,295,595

*Totals include underpinning of buildings but units do not.

Streets and Roads (Continued)

cu.yd. Wallula-Touchet Rd., State Rd. 3, Walla Walla Co.; and crushed gravel surfacing 6,500 cu.yd. State Rd. 2, Wenatchee-Orondo Rd., Douglas Co. J. W. Hoover, highway engr.

Calif., Colusa—Colusa Co. making plans paving 6½ mi. East Side Rd., and 3½ mi. Prize-College Rd. J. M. Felknor, co. engr.

Calif., Colusa — Colusa Co. made plans paving 2⅝ mi. Grimes-Knights Landing Rd. J. M. Felknor, co. engr.

Calif., Monrovia — Plans sidewalks on various streets. $50,000 or more.

Calif., Petaluma — Making preliminary plans paving, etc., portions of East D and Wilson Sts. $25,000 or more.

Calif., Oakland — Made plans curbing, guttering, paving, and widening, etc., 22nd St. between western waterfront and Lake Merritt. $2,000,000. W. W. Harmon, city engr.

Calif., Oakland — Supervs. Alameda Co. rejected bids Jan. 11, roadways, walks, steps, walls, etc., at Highland Hospital. Noted Jan .21.

Calif., San Diego—Plans improving Upas, Redwood, Palm and other Sts., 12,184 cu.yd. excav., 49,450 sq.ft. concrete sidewalk, 10,312 lin.ft. concrete curbing, 450,842 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete paving, 18,260 cu.yd. embankment, etc. F. A. Rhodes, city engr.

Calif., San Diego—Common Council plans improving Louisiana St., 3,732 sq.ft. concrete sidewalk, 77 lin.ft. concrete curbing 114,912 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete paving, etc. F. A. Rhodes, city engr.

Calif., San Diego—Common Council rejected bids Jan. 11, improving Muir Ave., 33,264 sq.ft. concrete sidewalk, 6,200 lin.ft. 8 in. concrete curbing, 50 lin.ft. 6 in. concrete curbing, 125,593 sq.ft. 1½ in. asphaltic concrete on 3 in. bituminous paving, etc. Noted Jan. 21.

Calif., Ventura—Making plans probably concrete paving, etc., various streets. $500,000 or more. C. W. Pierce, city engr.

Ont., Chesley—City Council plans concrete paving various streets. $40,000. A. Krug, chn. com.

Ont., Hamilton—Making plans concrete paving Beach Rd. $69,000. W. L. McFaul, City Hall, engr.

Ont., Kitchener—City Council plans concrete paving various streets. $50,000. S. Shupe, city engr.

Ont., St. Catherines — Plans concrete paving St. Paul St., etc. $40,000.

Ont., Toronto—Plans bitulithic concrete paving Langley Ave., $19,867; grading lane between Lansdowne and McDonnell Aves., $8,100; and opening and grading lane between Manning Ave. and Clinton St., $1,200. R. C. Harris, City Hall, engr.

Ont., Toronto — Soon takes bids asphalt on 6 in. concrete paving Du Vernet Ave. from Glenmore Rd. to Woodbine Ave., $5,146; St. Paul St. from King to Queen Sts., $7,986; and Vanauley St. from Queen St. to Grange Ave., $59,535. R. C. Harris, City Hall, engr.

Ont., Walkerville — City Council plans concrete paving various streets and enlarging incinerator. $50,000. A. Calderwood, chn. com.

Que., Three Rivers — Plans concrete or macadam paving 1 mi. St. Cecile St. between St. Geneveve and St. Maurice Sts., 50 ft. $45,000. C. Gelinas, Three Rivers, engr.

BIDS DESIRED

New Jersey — Feb. 15, by State Hy. Comn., Trenton, grading and 3 sixty ft. span bridge and one small bridge, on Route 9, Sect. 18, Clinton Cutoff, Hunterdon Co. A. L. Grover, secy.; adv. E. N.-R. Jan. 28.

Pa., Kittanning — Feb. 26, by Supervs. Wayne Twp., Armstrong Co., rein.-con .paving 4,301 ft. County Aid Application 3033, 16 ft. C. M. Dickason, secy. Wayne Twp.; adv. E. N.-R. Jan. 28.

Pa., Phila.—Feb. 4, by Dept. Pub. Wks., Bureau of Engineering, Schedule A, asphalt paving 40,283 sq.yd. 11 streets; Schedule B, asphalt repaving 10,024 sq.yd. 52nd St.; Schedule C, redressed granite block paving 43,065 sq.yd. Erie, Girard, 4th, 12th, 19th, and 29th Sts.; Schedule D, grading 60,149 cu.yd. Holme Ave., etc. G. H. Biles, dir.

W. Va., Clarksburg — Feb. 9, by Court Harrison Co., concrete or bituminous macadam reconstructing 11 mi. Clarksburg-Buckhannon-Harrison Co. line Rd. $300,000. G. L. Coyle, Court House, co. engr. Noted Sept. 3.

North Carolina — Feb. 8, by State Hy. Dept., Raleigh, hardsurfacing roads in Beaufort, Wilson, Robeson, Person, Wake, Randolph and Swain Counties; topsoiling, sand clay, gravel or grading roads in Johnston, Bladen, Wake, Gaston, Mecklenburg, Richmond, Ashe, Watauga and Henderson Counties; adv. E. N.-R. Jan. 28.

Florida—Feb. 10, by Bd. Bond Trustees of Ocean Shore Impvt. Dist., at office Secretary, Daytona Beach, approximately 40 mi. paving roads, 20 ft. wide, and 300,000 cu.yd. earth embankment, etc., in Flagler and Volusia Counties. C. M. Rogers, Daytona Beach, engr.

See proposal advertisements on page 100, Advertising Section.

Streets and Roads (Continued)

Fla., St. Petersburg — Feb. 1, by S. S. Martin, dir. Finance, asphalt block or brick paving 9th St. from 34th to 94th Aves., 50 ft., $36,000; asphalt block or brick widening 4th St. N. from 9th St. to Robinson Court and from 11th Ave. east of 4th St. to 12th Ave. west of 4th St., 60 ft. $40,000, also 4th St. N., $25,000.

Miss., Gulfport—Feb. 2, by Bd. Supervs. Harrison Co. 25,000 cu.yd. gravel for surfacing Saucier-Ramsay Spring Rd. E. McManus, clk.

Miss., Magnolia—Feb. 11, by Bd. Supervs. Magnolia Co., clearing, grubbing, grading, curbing and brick paving 5,358 sq.yd. Federal Aid Project 95. H. C. Dietzer, Jackson, engr.

Louisiana—Feb. 23, by State Hy. Comn., Baton Rouge, constructing 7.65 mi. Jonesboro-Monroe Highway, State Project 414-C, Jackson Parish. W. B. Robert, Reymond Bldg., Baton Rouge, highway engr.

O., Akron—Feb. 8, by **W. F. Peters, dir.** Pub. Serv., grading, curbing, 4 in. concrete sidewalks and vitr. brick paving 1,255 sq. yd. Portage Dr., $9,500, 1,655 sq.yd. Dorchester Rd. $14,600, 5,925 sq.yd. Berwin and other streets $47,600, 3,500 sq.yd. Ruby Ave. $30,350, 2,940 sq.yd. Alfaretta Ave. $23,700, and 2,680 sq.yd. Oakland Ave. $17,000; grading, 4 in. concrete sidewalks, and cindering 525 cu.yd. Ranney St. $7,600, 800 cu.yd. Tulip St. $7,000, 1,200 cu.yd. Whitney Ave. $13,600, and 375 cu.yd. Whittier Ave. $4,200. E. A. Kemmler, Delaware Bldg., engr. Noted Sept. 12, 19 and 26.

Ind., Rushville — Feb. 16, by Common Council, paving approximately 3,500 sq.yd. North Willow St. Stewart & Stewart, Rushville, engrs.

Ill., Chicago — Feb. 5, by Bd. Local Impvts., City Hall, substructure and superstructure Sect. 9, South Water St. Impvt. from east line State St. to west line Wabash Ave. T. A. Evans, Room 207, City Hall, engr. Noted Oct. 1.

Wis., Chilton—Mar. 2, by A. J. Pfeffer, city clk., grading, curbing, guttering, sewers and rein.-con., vibrolithic, concrete, asphalt or asphaltic concrete paving 11,500 sq.yd. paving 5 streets. J. Donohue Eng. Co., 608 North 8th St., Chicago, Ill., engrs.

Ia., Battle Creek—Feb. 9, by City, A. E. Boysen, clk., improving various streets, approximately 50,000 cu.yd. excav., 36,000 lin. ft. curbing and guttering and 60,000 sq.yd. paving. $172,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs.

Kan., McPherson—Feb. 23, by Clerk McPherson Co., grading, etc., 7.817 mi. Federal Aid Project 278-A, 28 ft. G. D. Johnson, McPherson, co. engr. Noted Dec. 24.

Neb., Tecumseh—Feb. 2, by City, brick and rein.-con. paving, etc., 7,288 sq.yd. streets in Dist. 3. $55,381.

Missouri — Feb. 5, by State Hy. Dept., Jefferson City, grading 18.448 mi. roads in Andrews, Pettis and Daviess Counties; 30 ft. grading 58.32 mi. roads in Lafayette, Linn, Newton, Salines, Stoddard, Vernon and Wayne Counties; 18 ft. gravel surfacing 71.049 mi. roads in Audrain, Bates, Bollinger, Caldwell, Cole, Greene, Howard, Howell, St. Clair, Stone and Wayne Counties; 9 ft. concrete paving 20.581 mi. roads in Daviess Co.; 18 ft. concrete paving 6.387 mi. roads in Andrew and Pettis Counties; 22 ft. amiesite and rock asphalt paving 0.625 mi. roads in Howard Co. B. H. Piepmeier, ch. engr. Noted Jan. 21.

Mo., Hamilton—Feb. 8, by C. F. Ridings, city clk., improving general streets 11,500 sq.yd. 7 in. concrete paving, 3,300 ft. curbing, 1,400 cu.yd. excav., etc. J. E. Rider, Richmond, engr.

Ark., Siloam Springs—Feb. 11, by E. McCulloch, chn. Dist. 4, grading, curbing, guttering and sheet asphalt paving 27,633 sq. yd. Dist. 4. $111,610. W. L. Winters, Merchants Natl. Bank Bldg., Ft. Smith, engr. Noted Jan. 7.

Tex., Baird — V. B. Gilbert, judge Callahan Co., taking bids improving 3.21 mi. highway from Eastland Co. line to Shackelford Co. line. $66,000. G. E. Franklin, Baird, engr. Noted Dec. 10.

Tex., Falfurrias—Brooks Co., taking bids grading, bridging and concrete paving 6 mi. Highway 12, Federal Aid Project 429-I. $83,000. R. Harrison, Falfurrias, engr.

Tex., Galveston—Feb. 8, by C. C. Washington, engr. Galveston Co., sea wall paving at intersection of old and new boulevard near Bway. and 6th Sts., 3,747 yd. vitr. brick, 910 yd. sand fill, 1,160 yd. removing old brick paving, etc., for Galveston Co. $30,000. J. M. Murch, aud. Galveston Co.

Oklahoma—Feb. 2, by State Hy. Dept., Oklahoma City, **(S. A. P. means State Aid Project)**, improving 11.39 mi. S. A. P. 254, Craig Co., 61,720 cu.yd. earth and 3,240 cu. yd. rock excav., etc., $42,000. 16.561 mi. S. A. P. 267, Delaware Co., 74,460 cu.yd. earth and 11,890 cu.yd. rock excav., etc., $65,000, 6.479 mi. S. A. P. 268-A, Grant Co., 32,870 cu.yd. earth and 1,740 cu.yd. rock excav., etc., $35,000, 5.584 mi. S. A. P 266-B, Le Flore Co, 31,245 cu.yd. earth and 3,892 cu. yd. rock excav., etc., $25,000, 6 mi. S. A. P. 266-A, Le Flore Co., 29,360 cu.yd. earth and 4,480 cu.yd. rock excav., etc., $25,000, 5.662 mi. S. A. P. 257-A, Rogers Co., 44,720 cu.yd. earth and 1,860 cu.yd. rock excav., etc., $25,000; concrete paving 8,660 sq.yd. S. A. P. 209-B, Cleveland Co., $25,000; gravel surfacing 71,480 sq.yd. S. A. P. 181-C. McClain Co., $30,000. J. M. Page, highway engr.

Oklahoma—Feb. 2, by State Hy. Dept., Oklahoma City, grading, etc. 3.679 mi. State Aid Project 264, 30 ft., Kingfisher Co., $25,000; also grading and concrete surfacing 7,880 sq.yd. Stillwater Rd., State Aid Project 248-A, 18 ft., Payne Co., $25,000. J. M. Page, highway engr.

Okla., Frederick — Feb. 4, by E. U. Gamblin, mayor, grading and sheet asphalt paving 13,200 sq.yd. 11th, 13th, Jesamine and Dahlia Sts., 30 ft. $36,600. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Calif., Los Angeles — Feb. 1, by Bd. Supervs. Los Angeles Co., curbing, guttering, walks, concrete paving, etc. 195,172 sq.ft. Bellview Ave., $72,598; also grading and 86,361 sq.ft. 6- to 8-in. and 196,123 sq.ft. 7- to 9-in. concrete paving, etc. Santa Fe Ave., etc. $188,624. G. Jones, Hall of Records, engr. Noted Jan. 14.

Calif., San Diego — Feb. 8, by Common Council, improving Kettner Blvd., Hancock St., etc., 5,987 cu.yd. excav., 16,122 lin.ft. concrete curbing, 13,587 sq.ft. concrete sidewalks, 38,794 sq.ft. 5 in. concrete and 364,011 sq.ft. 2 in. asphaltic concrete on 3½ in. bituminous paving, etc.; also 26th St. from Russ Blvd. to N St., 802 lin.ft. concrete curbing, 2,593 sq.ft. concrete sidewalk, 203,810 sq.ft. 5 in. concrete paving, etc. F. A. Rhodes, city engr. Noted Jan. 7.

Calif., Santa Rosa—Feb. 10, by W. W. Felt, Jr., clk. Sonoma Co., improving Windsor Dist., 1,540 cu.yd. "A" concrete paving, 50 cu.yd. "A" concrete culverts and retaining walls, 1,800 cu.yd. excav. E. A. Peugh, Santa Rosa, co. surv.

Ontario — Feb. 22, by S. L. Squire, minister Dept. Pub. Hys., Parliament Bldgs., Toronto, 20 ft. concrete paving 34.26 mi. Contrs. 1273-1278 inclusive, $1,000,000; 20 ft. penetration macadam paving 4 mi. Contr. 1279, $60,000; 20 ft. waterbound macadam paving 23.1 mi. Contr. 1280-1284 inclusive, $300,000; grading 12.6 mi. Contrs. 1285 and 1286, $30,000; also culverts, etc. Contrs. 1287, 1288 and 1272, $45,000. R. M. Smith, 110 University Ave., Toronto, ch. engr.

BIDS RECEIVED

South Carolina — State Hy. Dept., Columbia, constructing 7.6 mi. State Route 45, State Project S-589-B, Orangeburg Co., from Newell Contg. Co., Greenville, $26,594; improving 1.99 mi. State Route 40, Federal Aid Project 241-B, Horry Co., and one treated timber bridge 5-15 ft. span on same from E. K. Turner, Florence, $20,504 and $4,579 respectively; 10.9 mi. State Route 24, State Project S-589-B, from R. D. Clowe, Aiken, $45,380, also one treated timber bridge 24-15 ft. and 7-19 ft. spans over North Edisto River, from Peterson & Earnhardt, Montgomery, Ala., $14,189.

Calif., Los Angeles—Bd. Pub. Wks., from B. R. Ford, improving Reseda Ave., 2,739 lin.ft. curbing $0.50 per lin.ft., 9,068 sq.ft. sidewalk $0.14, 615 sq.yd. 2 in. asphalt paving $0.60, 5,970 sq.ft. oiled roadway $0.08, etc., total $43,261; from J. Martin, 589 Lyon St., improving Burnett Ave. between Lorren and Roscoe Sts., 550 cu.yd. concrete paving $775, 243,439 sq.ft. 6 in. concrete base $0.175 per sq.ft., etc., total $47,865; from Chalmers & Ford, H. W. Hellman Bldg., Ave. 33 (Ave. 33 and Corlyle St. Impvt. Dist.), 28,850 lin.ft. curbing $0.40, 6,430 lin.ft. curbing $0.45, 7,066 sq.ft. guttering $0.35, 149,332 sq.ft. sidewalk, $0.135, 109,437 sq.ft. sheet asphalt paving $0.15, 262,115 sq.ft. 5 in. concrete base $0.185 and 158,954 sq.ft. 6 in. concrete base $0.195, etc., total $235,143. Noted Dec. 10.

Calif., Los Angeles—Supervs. Los Angeles Co., Jan. 11, curbing, grading, guttering and concrete paving, etc., 159,845 sq.ft. portion of Grevilla St., Impvt. 338, from T. T. Crawford, 1st Natl. Bank Bldg., Pomona, $57,735; also grading, curbing, guttering, concrete paving, etc., 241,046 sq.ft. portion of Main St., Impvt. 375, from United Concrete Pipe & Constr. Co., Box 5, Ventura, $74,686. Noted Dec. 31.

CONTRACTS AWARDED

Pa., Pittsburgh—Rein.-con. paving 20,400 ft. Evergreen-Three Degree Rd., Allegheny Co., to Booth & Flinn Ltd., Forbes St., $375,880.

Miss., Vicksburg—Warren Co., road work for bridge over Yazoo River at Snyders Bluff, to Horton Constr. Co., Texarkana, Tex., $32,112. Noted Oct. 8 under "Bridges."

Kentucky — State Hy. Dept., Frankfort, grading, etc. 13.8 mi. Mayfield-Paducah Rd., Federal Aid Project 144-A, Graves Co., to Eli & Marye, Dawson Springs, $90,[illegible]. Noted Sept. 17.

O., Canton — Improving Clarendon Ave. S. W. between Tuscarawas St. S. W. and Navarre Rd., to Canton Sand & Gravel Co., Clarendon Ave. S. W., $56,742. Engrs. est. $60,000.

Ind., Kendallville — City Council, two course concrete paving 12,948 ft. 21 streets, 30 ft., to Grace Constr. Co., 220-21 Utility St., Ft. Wayne, $109,090. Engrs. est. $131,000. Noted Dec. 17.

Ind., LaPorte—P. Summy, engr., LaPorte, grading and graveling 3 mi. Slater Rd., 26 ft., to F. Schirr, Westville for LaPorte Co., $25,874. Engrs. est. $31,000. Noted Dec. 17.

Ill., La Grange — Grading, curbing and concrete paving various streets, to Sternberg-Powell Co., 53 West Jackson Blvd., Chicago. Engrs. est. $200,000. Noted Aug. 6.

Ill., North Chicago — Concrete paving 14,000 sq.yd. Kristian Ave. and 16th St., to Western Impvt. Co., 840 9th St., Racine, Wis., $56,740.

Kan., Howard—Elk Co., clearing, grubbing, bridging, grading, etc., 8.692 mi. Federal Aid Project 297-A, 26 ft., to S. W. Poor, Topeka, and Kennedy & Lewis, El Dorado, $34,770.

Kan., St. John—Stafford Co., sand clay surfacing 5.447 mi. Federal Aid Project 302-A and B, to Stamey-McKey Constr. Co., Hutchinson, $37,237.

Kan., Wellington — Sumner Co., sand clay surfacing 11.957 mi. Federal Aid Project 323-A and B, to Schultz Constr. Co., Parsons, $76,791.

Mo., Cape Girardeau—City Clerk, grading, curbing, gravel and concrete paving Mill St. between Main and Fountain Sts., also Capaha Dr., to W. P. George Constr. Co., Pine Bluff, Ark., $23,567. Former contract rescinded. Noted July 2.

Mo., Clinton — Amiesite resurfacing 23,048 sq.yd. and concrete paving, etc. 431 sq.yd. West Jefferson, South Washington, South Main, East Franklin, West Franklin and North Main Sts., to Reed & Wheelock, Clay Center, Kan., $32,378. Noted Jan. 7.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, Kentucky rock asphalt paving, etc., 1,605 yd. Wellington Court, to Skrainka Constr. Co., Security Bldg., $8,800; asphaltic concrete paving, etc., 855 yd. Leamington St., and 2,270 yd. Humphrey St., to Webb-Boone Paving Co., 5103 Fyler Ave., $4,911 and $6,724 respectively, 2,105 yd. Humphrey St., and asphalt paving, etc., 16,230 yd. Nebraska St., to C. A. Moreno, Syndicate Trust Bldg., $8,146 and $55,254 respectively; Warrenite paving, etc., 13,110 yd. South Utah Pl. and 2,205 sq.yd. Humphrey St., to Granite Bituminous Paving Co., Ry. Exch. Bldg., $56,000 and $31,050 respectively. Grand total $179,017. Noted Jan. 21.

Mo., University (St. Louis P. O.) — See "Sewers."

Tex., Anderson — R. W. Berry, judge Grimes Co., improving 4.79 mi. K. T. Whitehall Rd., 1,000 cu.yd. clearing and grubbing, 10,199 cu.yd. hauling and placing gravel, and 247,347 cu.yd. hauled additional ½ mi., to M. M. Craven & Sons, Missouri City, $19,722. Engrs. est. $26,500.

Tex., Dublin — Elrod Eng. Co., engrs., 3206 Elm St., Dallas, 3 in. brick on gravel surfacing various streets, here, to Julian Field & Co., State Natl. Bank Bldg., Denison, for City. $70,503. Noted Jan. 21.

Idaho—Commissioners Pub. Wks., at Hotel Idaho, Coeur d'Alene, concrete paving, etc., 3.079 mi. Coeur d'Alene-Yellowstone Trail, Federal Aid Projects 47 and 93-A, Kootenai Co., to J. H. Collins & Co., Spokane, Wash., $78,667. Noted Nov. 19.

California—See "Bridges."

Calif., Los Angeles—Bd. Pub. Wks., concrete paving, curbing, walks, guttering, etc. Edenhurst Ave. between Parkdale and Verdant Sts., to P. J. Akmadzich, 821 Yale St., $62,405; also grading, etc., Anaheim St. and Sampson Ave. Impvt. Dist., to Western Dredging Co., 58 2nd St., San Francisco, $285,750. Noted Jan. 21.

Calif., San Rafael — Marin Co., concrete curbing, guttering and 1½ in. Willite asphaltic concrete on asphaltic concrete paving, etc. 84,704 sq.ft. Alder Way, etc., to Pacific States Constr. Co., Call Bldg., San Francisco, $38,608. Noted Jan. 21.

See proposal advertisements on page 100, Advertising Section.

Buildings—Industrial

PROPOSED WORK

N. Y., Buffalo—CORE ROOM and FOUNDRY—Amer. Radiator Co., 1807 Elmwood Ave., plans rein.-con., brick and steel additions. $1,500,000. Private plans.

N. Y., Buffalo—SASH FACTORY—F. P. Wittmeyer, 304 South Park Ave., plans sash and frame factory, Reading St. $40,000.

N. Y., New York—RADIO PLANT—F. A. D. Andrea, Inc., 1581 Jerome Ave., having plans prepared by Ballinger Co., engrs. and archts., 100 East 42nd St., rein.-con., brick and steel, plain foundation, Mott Ave. and 138th St. $750,000.

N. Y., New York — PRINTING and PUBLISHING — New York American & Evening Journal, 238 William St., soon take bids 4 story, rein.-con., brick and steel, plain foundation, Water St. C. E. Birge, 29 West 34th St., engr. and archt. Noted Dec. 10 under "Buildings—Commercial."

Pa., Bristol — FACTORY — Pacific Steel Boiler Corp., Waukegan, Ill., purchased 15 acre tract and plans 1 story factory, here. $300,000. Engineer and architect not selected.

Ga., Atlanta—RUBBER PLANT—J. M. Tull Rubber Co., 150 Marietta Bldg., plans rubber manufacturing plant. $250,000.

Ala., Huntsville — COTTON WAREHOUSE—Dixie Warehouse & Storage Co., plans 1 story, 150 x 489 ft. cotton warehouse, 10,000 bale capacity.

Miss., Meridian—CREAMERY—Armour & Co., 208 South La Salle St., Chicago, Ill., H. S. Johnson, mgr. Produce Dept., plans creamery, 2,000,000 lb. capacity per year, here. $100,000.

La., New Orleans—MACHINE SHOPS and WAREHOUSE—Equitable Equipment Co., Whitney Bldg., purchased plant of United Chemical & Organic Products Co., intersection Florida Walk and Louisville & Nashville R.R. tracks, and plans converting same into machine shops and warehouses. $100,000.

Tenn., Cookeville—FACTORY—Menzies Shoe Co., Superior St., Fond du Lac, Wis., plans shoe factory, here. To exceed $40,000.

Tenn., Nashville—PLANT—Victor Chemical Co., 4th & 1st Bldg., R. P. Gates, supt., plans rebuilding plant, recently destroyed by fire. Loss $300,000-$400,000.

Ind., Evansville — WAREHOUSE — Standard Oil Co., W. J. Lang, mgr., 2320 Division St., having plans prepared 3 story and basement, brick, steel and rein.-con. warehouse, 1 story garage, and 1 story machine shop, Division St. and Bray Ave. $200,000. Private plans.

Ill., Chicago — PRINTING PLANT — Prairie Farmer Pub. Co., 337 West Madison St., having sketches made by Mundie & Jensen, 39 South La Salle St., and takes bids about Mar. 22, 3 story and basement, 50 x 142 ft., rein.-con. and brick, West Washington Blvd. and Willard Court. $200,000.

Wis., Clintonville—CANNERY—Shawano Canning Co., Shawano, K. Weeman, pres., plans 2 story, brick and timber cannery, plain foundation, here. $60,000. Engineer and architect not selected.

Wis., Rhinelander — SHOP — E. Abels, having plans prepared by Smith & Brandt, Manitowoc, 1 story, 60 x 80 ft., rein.-con. and brick, plain foundation. $50,000.

Wis., Weyauwega—HEATING PLANT—Waupaca Co., L. Shoemaker, clk., Waupaca, having plans prepared brick and concrete heating plant with brick or concrete stack at insane asylum, here. $45,000. R. Cramer, 448 27th St., Milwaukee, engr.

Minn., St. Paul — FACTORY and MACHINE SHOP—Auto Engine Wks., Griggs St. and University Ave., having plans prepared by J. W. Stevens, 907 Exch. Bank Bldg., 1 and 2 story, 140 x 205 ft., brick and steel, St. Anthony and Hamline Aves. $65,000.

Mo., Joplin—BAKERY—Quality Bakery, 926 Main St., having plans prepared by C. E. Hanenberg, Joplin, remodeling and enlarging bakery. $75,000.

Mo., Kansas City—FOUNDRY and MACHINERY PLANT—J. Goldberg & Sons, 800 East 18th St., plan rein.-con. and steel plant addition. $200,000.

Ark., Norphlet—PLANT—Natural Gas & Fuel Corp., J. Zeppa, secy., having preliminary plans prepared gasoline absorption plant. $300,000 or more. Private plans.

Texas — SUB-STATION, etc. — Texas Central Power Co., Frost Bank Bldg., San Antonio, making plans electric sub-station on Lakeside Dr. near Eagle Lake, also main line from plant to Eagle Lake, 7 mi. line to Lissie, 6 mi. line to Lakeside Irrigation Co., 5 mi. line from company's plant on Colorado River, and 20 mi. line to Columbus. Private plans.

Tex., Center Point—TEXTILE MILL—Texas Wool & Mohair Textile Mills, c/o S. E. Bomar, promotion mgr., plans new mill. $45,000. Engineer and architect not selected.

Tex., Cleburne — SHOP — F. Merrit, ch. engr. and W. J. Smith, archt., both Union Depot Bldg., Galveston, soon takes bids 123 x 155 x 517 ft. boiler house and blacksmith shop, also 1 story, 45 x 288 ft. flue shop, steel and metal sash, here, for Gulf, Colorado & Santa Fe. Ry., Union Depot Bldg., Galveston. $300,000.

Tex., Ft. Worth—PRINTING PLANT—J. B. Davies, archt., 1308 Hemphill St., soon takes bids 1 story (ultimately 4 story) 100 x 109 ft., rein.-con., brick and stone, 5th and Jones Sts., for Ft. Worth Press, c/o A. Hamilton, mgr. $50,000.

Tex., Houston—CRUSHING and PULVERIZING PLANT—Micolithic Co., c/o A. F. Fisher, 203 Cotton Exch. Bldg., plans 1 story, brick and tile plant. $50,000. Engineer and architect not selected.

Tex., Rockdale — GAS PLANT — Kent-Middleton Co., Rockdale, and Hirt-McDermott Co., Wichita Falls, having preliminary plans prepared casinghead gas plant, near here. $150,000.

Calif., Long Beach — ICE and COLD STORAGE PLANT—H. B. King and associates, Security Bldg., had preliminary plans prepared by Fisher, Lake & Travers, 801 Edwards and Wildy Bldg., Los Angeles, 4 story, 100 x 200 ft. ice and cold storage plant, and 50 x 85 ft. ice manufacturing plant, rein.-con., east of municipal docks. To exceed $150,000.

Calif., Los Angeles — PUBLISHING PLANT — Technical Publishing Co., 411 South Main St., plans 3 story, 195 x 250 ft., probably rein.-con., in central manufacturing section. $750,000 or more. Engineer and architect not selected.

Que., Drummondville — PLANT — Canadian Cellulose & Chemical Co., subsidiary of Amer. Cellulose & Chemical Mfg. Co., 15 East 26th St., New York City, plans plant, here. $7,000,000.

Que., Jonquieres—MILL—Price Bros. Co. Ltd., having plans prepared by A. Duehastel de Montague, Quebec, mill for paper and cardboard machines, here. $150,000.

Ontario—HYDRO ELECTRIC PLANT—Hydro Electric Power Comn., 190 University Ave., Toronto, plans 50,000 hp. hydro electric plant on Nipigon River, at Alexander Falls, incl. concrete dams, concrete and steel power plant, etc. $7,000,000. F. A. Gaby, 190 University Ave., Toronto, engr.

Ont., London—RUG FACTORY—Canada Rug Co., 98 Carling St., W. C. Baldwin, proprietor, plans rebuilding plant recently destroyed by fire. $100,000 loss.

Ont., Windsor — SALT REFINERY — Canadian Salt Co., G. M. Dick, genl. mgr. plans refinery addition. $500,000.

B. C., Vancouver — SUB-STATION — British Columbia Ry. Ltd., having plans prepared by H. H. Gillingham, c/o owner, 2 story, rein.-con. and steel, caisson foundation, 5th and 1st Sts., here. $80,000.

BIDS DESIRED

O., Cleveland — LAUNDRY — Cleveland Sanitary Wet Wash Co., 6204 Central Ave., H. H. Wood, pres., taking bids 1 and 2 story, 100 x 120 ft., brick and steel addition, Beckman Ave. $50,000. H. M. Morse Co., 720 Prospect Ave., archts.

O., Cleveland—PAINT SHOP—Franklin Bros., Guarantee Title Bldg., taking bids 1 story, 90 x 140 ft., brick and steel, East 65th St. and Euclid Ave. $40,000. W. A. Becker, Union Bldg., archt.

Ill., Kankakee—ROUND HOUSE, etc. — Cleveland, Cincinnati, Chicago & St. Louis R.R. Co., Union Central Bldg., Cincinnati, O., H. Baldwin, ch. engr., taking bids extension to engineering facilities, incl. brick roundhouse and service building. $208,900.

Wis., Sheboygan — FACTORY — E. A. Stubenrauch, archt., 629 North 8th St., taking bids 3 story, 32 x 80 ft., and 40 x 80 ft., brick and timber additions, plain foundation, for Dillingham Mfg. Co., Wisconsin Ave. and South Water St. Noted Jan. 7.

Ia., Oskaloosa — BRICK PLANT — See "Contracts Awarded."

CONTRACTS AWARDED

Mass., Boston — FACTORY — Bay State Furniture Co., altering and constructing 1 and 2 story brick addition, to W. and L. Eng. Co., Bway. Cambridge. Archts. est. to exceed $40,000. Noted Dec. 10.

Mass., Charlestown (Boston P. O.) — FOUNDRY — J. D'Este, 26 Canal St., Boston, 1 story, 50 x 95 ft., brick and steel, Spice St., here, to Whidden-Beekman Co., 100 Boylston St., Boston. Engrs. est. $40,000.

Conn., New Britain—FACTORY—Russell & Irwin Mfg. Co., Washington St., 2 story, 43,000 sq.ft. floor space, steel and concrete, Myrtle and Lafayette Sts., to Aberthaw Constr. Co., 27 School St., Boston. Archts. est. $125,000.

Fla., Coral Gables—MACHINE SHOP—E. K. Lowe, 2 story, concrete block, to Lowe & Co., Coral Gables. $40,000.

O., Cleveland — IRON and BRONZE FACTORY — W. S. Tyler Co., C. Zimmerman, secy. and treas., 3615 Superior Ave., 6 story and basement, 82 x 118 ft., rein.-con. and brick, East 34th St. and Superior Ave., to V. Blarcom Co., Natl. City Bldg. Archts. est. $300,000. Noted Jan. 21.

O., Zanesville—FACTORY—Mosaic Tile Co., two 1 story, 120 x 180 ft. and 150 x 180 ft., concrete, brick and steel, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland. Archts. est. $150,000.

Ind., South Bend—SPRING FACTORY—Studebaker Corp., 1 story, 124 x 382 ft., brick, concrete, steel and gunite factory with craneway, to R. Sollitt & Sons, 5 North La Salle St., Chicago, Ill. Archts. est. approximately $125,000. Noted Oct. 22.

Ill., Melrose Park — FACTORY — See "Buildings—Commercial."

Ia., Oskaloosa—BRICK PLANT—Standard Clay Products Co., T. J. Neiswanger, pres., will build continuous kiln, rein.-con., brick and steel addition, by day labor. $50,000. Private plans. Noted Jan. 21.

Ia., Sioux City—CREAMERY and COLD STORAGE—Swift & Co., Stock Yards, general contract 4 story, 75 x 150 ft., brick and concrete, Chambers and Dave Sts., to W. A. Klinger, Warnock Bldg., approximately $100,000.

Kan., Topeka — POWER HOUSE — See "Buildings—Commercial."

Ark., Lexa—ICE PLANT, etc.—Lexa Ice Co., 1 story, 60 x 175 ft. ice and cold storage plant, concrete, brick and steel, to W. F. Moody & Co., 613 A.O.U.W. Bldg., Little Rock. Archts. est. $125,000.

Tex., Beaumont — FACTORY — Tyrell Combest Realty Co., fig preserving plant, 400 bu. daily capacity, to C. A. Raush, Alvin, about $40,000.

Tex., Houston—ICE CREAM FACTORY—Houston Ice Cream Factory, c/o C. H. Rouse, 1703 Washington Ave., remodeling and constructing 2 story, addition, 1703 Washington Ave., to J. Antill, 2103 Main St., about $50,000.

BRIDGE—OREGON

Bids were opened by city for constructing Vista Ave. Bridge. (A) Parker & Banfield, 62 East 3rd St., N. (awarded contract); (B) Kuckenberg-Wittman Co., 437 East 25th St., N.; (C) H. E. Doering, 703 Johnson St. The unit bids are as follows:

	A	B	C
2,200 cu.yd. earth excavation	$166.30	$0.85	$1.50
500 cu.yd. solid rock excavation	5.00	3.30	3.00
50 cu.yd. excavation, old concrete walk	3.00	4.40	5.00
60 cu.yd. trench excavation	1.25	2.75	2.00
600 cu.yd. rolled embankment	.75	1.65	1.50
100 cu.yd. concrete, Class A	8.40	11.00	14.25
1,000 lb. steel, Class A	.06	.055	.07
200 sq.ft. concrete sidewalk	.17	.20	.25
100 lin.ft. concrete curb	.50	.45	.....
130 lin.ft. 8-in. vitrified or cement pipe	.70	.60	.80
2 inlets to be constructed	25.00	45.00	20.00
1 inlet to be removed	15.00	40.00	15.00
655 sq.yd. concrete pavement, No. 1 or 3	1.35	1.90	2.50
25 sq.yd. 7-in. concrete roadway, No. 1 or 3	1.60	2.00	2.75
50 sq.yd. 6-in. concrete slab	1.30	1.75	2.75
50 sq.yd. crushed rock ballast, 2-in. thick	.55	1.70	.90
50 sq.yd. concrete between ties	1.20	1.10	2.50
Tearing out old bridge (lump sum)	.....	2,611.00	3,850.00
Extended totals	$174,873	$179,851	$182,144

See proposal advertisements on page 100, Advertising Section.

Buildings—Industrial (Continued)

Tex., Palestine—ICE PLANT—Palestine Ice Co., c/o W. B. McNaughton, will build 70 x 200 ft., brick, concrete and steel, 70 ton capacity. $140,000. Work will be done by separate contracts under supervision of General Eng. & Management Corp., 165 Bway., New York City. Noted Dec. 31.

Calif., Sacramento — CAN FACTORY — Amer. Can Co., 3rd and 22nd Sts., San Francisco, 1 story, refn.-con., to Lindgren-Swinerton, Inc., 225 Bush St., San Francisco. $1,000,000.

Buildings—Commercial

PROPOSED WORK

N. H., North Conway — HOTEL — H. Randall, having plans prepared by Haynes & Mason, 29 Park Bldg., Fitchburg, 3 story and basement, 2 wings, brick and timber hotel. $150,000.

Mass., Boston—Y. M. C. A., A. S. Johnson, pres., 316 Huntington Ave., plans new Y. M. C. A. building. $500,000. Engineer and architect not selected.

Mass., Brookline (br. Boston) — FIRE HEADQUARTERS — Town of Brookline, c/o C. Rowley, 70 State St., Boston, having sketches made by Little & Russell, 45 Bromfield St., Boston, 2 story, brick, fire headquarters. To exceed $150,000.

Conn., Bridgeport — CLUB — Algonquin Club, Inc., 211 State St., having sketches made by E. G. Southey, 983 Broad St., 2 story and basement, 100 x 100 ft., brick, Broad St. $200,000.

Conn., New Haven—BANK—Union & New Haven Trust Co., 57 Church St., plans brick, stone and steel bank. $2,000,000. Cross & Cross, 211 Madison Ave., New York City, archts.

Conn., New Haven—HOME—Yale Hope Mission, 55 Church St., having plans prepared by H. K. Murphy, 1 Pershing Sq., New York City, 5 story, 80 x 100 ft., brick and steel, York St. $150,000.

Conn., New Haven—HOTEL—Community Hotel Corp., 25 West 45th St., New York City, having plans prepared by G. B. Post & Sons, 101 Park Ave., New York City, 10 story, 300 room, brick and stone, Meadow St., here. $1,000,000.

Conn., New Haven—STORE—H. M. Bullard Co., 91 Orange St., had plans prepared by E. F. Poland, 505 Grand Ave., 3 story, 106 x 190 ft., brick, tile and steel, Elm St. $150,000.

Conn., New London—APARTMENT and STORE—C. E. Schall, 849 Pequot Ave., having plans prepared by Bilderbeck & Langdon, State St., brick and steel, Montauk Ave. $150,000.

Conn., South Norwalk—THEATRE—H. Goodwin, 16 Spring St., having revised plans prepared by A. S. Meloy, 2965 Main St., Stratford, 1 story and basement, brick, steel and terra cotta, Washington St. $200,000. Noted Dec. 10.

N. Y., Albany—BANK—Home Savings Bank, 13 North Pearl St., having plans prepared by Dennison & Hirons, engrs. and archts., 288 Lexington Ave., New York City, brick, steel and stone, plain foundation, North Pearl St. $1,000,000.

N. Y., Brooklyn — APARTMENT — Shampan & Shampan, engrs. and archts., 188 Montague St., preparing plans 100 x 100 ft., brick, steel and stone, plain foundation, Union St. near 8th Ave. $750,000. Owner's name withheld.

N. Y., Brooklyn—APARTMENT HOTEL —Dry Dock Holding Co., c/o J. Sarsfield Kennedy, engr. and archt., 157 Remsen St., having plans prepared brick, steel and stone, plain foundation, Ashland Pl. and Lafayette Ave. $4,500,000.

N. Y., Brooklyn—COMMUNITY—Jewish Centre of Coney Island, c/o Block & Hesse, engrs. and archts., 18 East 41st St., New York City, having plans prepared 4 story, brick, steel and stone, plain foundation, Ocean Parkway near Neptune Ave. $400,000.

N. Y., Brooklyn—OFFICE and LOFT—Bush Terminal Co., foot 43rd St., having plans prepared by W. Higginson, engr. and archt., 15 Park Row, New York City, 2 rein.-con., brick and steel, plain foundations, 1st Ave. and 39th St. $2,000,000.

N. Y., Brooklyn—Y. W. C. A., 40 Remsen St., takes bids about Mar. 1, 11 story, 80 x 200 ft., brick, steel and stone, plain foundation, Atlantic and State Sts. $300,000. F. L. Ackerman, 19 West 44th St., New York City, engr. and archt. Noted Dec. 10.

N. Y., Buffalo—APARTMENT—Carr & Andrus, c/o Haugaard & Burnham, engrs. and archts., 185 Madison Ave., New York City, having plans prepared brick, steel and stone, plain foundation, Linwood Ave., here. $1,000,000.

N. Y., Corona (Ind. Sta. Flushing) — THEATRE — Small-Strausberg Queens Theatre, Inc., W. Small, pres., 29 Maple St., Brooklyn, having plans prepared by E. DeRosa, engr. and archt., 110 West 40th St., New York City, brick, steel and stone, plain foundation, here. $600,000. Noted Mar. 5.

N. Y., Floral Park—THEATRE, STORE and OFFICE—C. Fleischer, 186 Joralemon St., Brooklyn, having plans prepared by C. A. Sandblom, engr. and archt., 145 West 45th St., New York City, brick, steel and stone, plain foundation, Turnpike Ave., here. $350,000.

N. Y., Lockport — Y. M. C. A. having plans prepared by J. F. Jackson, engr. and archt., 137 East 45th St., New York City, 196 x 200 ft., brick, steel and stone, plain foundation. $500,000.

N. Y., New York—APARTMENT—Marmon Constr. Co., c/o Springsteen & Goldhammer, engrs. and archts., 32 Union Sq., having plans prepared 5 story, brick, steel and stone, plain foundation, Montgomery Ave. $350,000.

N. Y., New York — APARTMENT — Morsane Realty Corp., c/o C. Kreymborg Son, engrs. and archts., 2334 Marion Ave., having plans prepared 6 story, brick, steel and stone, plain foundation, Van Courtlandt Ave. $250,000.

N. Y., New York — APARTMENT — Naples Holding Corp., c/o S. V. Becker, engr. and archt., 819 East 169th St., having plans prepared 5 story, brick, steel and stone, plain foundation, Godwin Terrace. $450,000.

N. Y., New York—APARTMENT—Park Ave. Holding Corp., c/o Delano & Aldrich, engrs. and archts., 126 East 38th St., having plans prepared 14 story, brick, steel and stone, plain foundation, Park Ave.

N. Y., New York—APARTMENT—R. O. W. Realty Corp., c/o W. Koppe, engr. and archt., 567 East Tremont Ave., having plans prepared 6 story, 125 x 200 ft., brick, steel and stone, plain foundation, Bailey Ave. $400,000.

N. Y., New York — CLUB HOUSE — United Order of True Sisters, c/o Bloch & Hesse, engrs. and archts., 18 East 41st St., having plans prepared brick, steel and stone, plain foundation, 150 West 85th St. $400,000.

N. Y., New York—HOTEL—A. P. Hess, engr. and archt., 345 Madison Ave., preparing plans 22 story, 100 x 102 ft., brick, steel and stone, plain foundation, 2 East 86th St. $2,000,000. Owner's name withheld.

N. Y., New York—HOTEL—A. Kay, c/o F. P. Platt & Bro., engrs. and archts., 221 West 59th St., having plans prepared 23 story, brick, steel and stone, plain foundation, 6th Ave. and 46th St.

N. Y., New York — THEATRE — G. F. Gerrety, c/o E. DeRosa, engr. and archt., 110 West 40th St., having plans prepared brick, steel and stone, plain foundation, 4915 Bway. $500,000.

N. Y., New York—WAREHOUSE—Unit Storage, Inc., c/o Morres & Dunford, engrs. and archts., 110 East 42nd St., having plans prepared 12 story, rein.-con., brick and steel, plain foundation, Webster Ave. $600,000.

N. J., Camden — THEATRE — Hunts Theatre Corp., 1324 Vine St., Phila., Pa., having plans prepared by W. H. Lee, Schaff Bldg., Phila., Pa., 3 story and basement, 31-35 Kings Highway, here. $250,000.

N. J., Elizabeth—APARTMENT—A. N. Allcroft, 225 Orchard St., plans 5 story, 91 x 121 ft. apartment, 435-41 Westminster Ave. $360,000.

Pa., Bryn Mawr — HOSPITAL — Bryn Mawr Hospital plans hospital buildings. $1,000,000. Zantzinger Borie & Medary, Otis Bldg., Phila., archts.

Pa., Norwood (Hoadleys P. O.) — APARTMENT—S. Kaplan, 10 South 18th St., Phila., making plans brick and steel apartment, plain foundation, here. $150,000. Owner's name withheld.

Pa., Phila. — BANK and OFFICE—Fidelity Trust Co., 325 Chestnut St., having plans prepared by Simon & Simon, 249 South Juniper St., 20 or more story and basement, 175 x 229 ft., rein.-con., brick and steel, Broad St. between Lansom and Walnut Sts.

Pa., Pittsburgh—DORMITORIES—G. E. Evans, Union Trust Bldg., having plans prepared by F. H. Smart, Delaware St., N. S., 4 story and basement, brick and hollow tile, Melwood St. $250,000.

Pa., Phila. — SESQUICENTENNIAL — State of Pennsylvania, Harrisburg, having plans prepared by R. Benckert, Bellevue Court Bldg., 1 story, rein.-con., steel and stucco, wood pile foundation, Broad and Pattison Sts., here. $750,000.

Pa., Pottsville—HOTEL—Owner, c/o E. C. Luther, having plans prepared by Thomas, Martin & Kirkpatrick, 220 South 16th St., Phila., 8 story, brick and steel, plain foundation.

Pa., Williamsport—STORE—A. L. Bindley, Elizabeth, N. J., plans 3 story and basement, 25 x 100 ft., brick, steel and concrete, West 4th St., here. $150,000. Engineer and architect not announced.

Pa., Williamsport—Y. W. C. A., East 3rd St., H. W. Whitehead, pres., plans 4 story and basement, brick and steel building, incl. chapel, dormitory, gymnasium, swimming pool, etc., on 100 x 100 x 100 x 490 ft. site, West 4th St. $400,000. Noted Oct. 1.

Md., Baltimore—THEATRE and COMMUNITY—C. Raith, Fulton and Pennsylvania Aves., having plans prepared by C. N. and N. Friz, Lexington Bldg., theatre and community building, Pennsylvania and Fulton Aves. $300,000. H. F. Doeleman, 507 North Charles St., engr.

D. C., Wash.—CLUB—Queensberry Natl. Athletic Assn., c/o Milburn Heister & Co., archts, 710 14th St. N. W, having plans prepared club, with swimming pool, 14th St. $750,000-$800,000.

D. C., Wash. — ORPHAN ASYLUM — Trustees St. Joseph Orphan Asylum, 924 H St. N. W., soon takes bids orphan asylum. Milburn, Heister & Co., 710 14th St. N. W., archts. Noted Oct. 22.

Va., Danville — HOTEL and THEATRE —C. B. Clement plans 10 story and basement, limestone hotel and theatre, city hall site. $500,000. H. A. Underwood, Commercial Bank Bldg., Raleigh, N. C., archt.

N. C., Wilson — THEATRE — M. Saliba plans theatre, on site old Hodges Home. $250,000. Engineer and architect not announced.

N. C., Winston-Salem—OFFICE—W. M. Nisson, 111 South Cherry St., soon takes bids 100 x 125 ft., brick, steel and stone, plain foundation. $500,000. W. L. Stoddart, 50 East 41st St., New York City, N. Y., archt. and engr. Noted Sept. 3.

N. C., Carthage — HOTEL, etc. — A. M. Steinburg, c/o Pine Bluff Inn, Pine Bluff, plans 250 room, brick and stone hotel, together with large sub-division, incl. golf links, lake, streets, water and sewerage works, etc. on 546 acre site, Highway 50 between Aberdeen and Southern Pines. $760,000.

N. C., Elizabeth City—HOTEL—A. L. Pendleton, et al., plan 100 room hotel. $150,000-$200,000. Engineer and architect not selected.

Fla., Miami — APARTMENT — Beverly Arms having plans prepared by Stuckert & Co., Miami and 1420 Chestnut St., Phila., Pa., 15 story, fireproof, Northeast 34th St. $3,000,000.

Fla., Miami—OFFICE, etc.—Chamber of Commerce, Miami Bank Bldg., receiving competitive sketches, 10 story building, incl. auditorium, 1,500 to 2,000 seating capacity, cafe and roof garden, etc., on 100 x 123 ft. site, Southeast 2nd St. opposite Alhambra Hotel. $850,000. Engineer and architect not selected.

Fla., Miami — OFFICE and CLUB — Miami Ad Club Building Corp., having plans prepared by Stuckert & Co., Miami, and 1420 Chestnut St., Phila., Pa., 12 story and basement office and club, incl. banquet hall, assembly rooms, gymnasium, roof garden, etc., Northeast 5th St. and Bay Shore Dr. $1,500,000.

Fla., Sarasota — APARTMENT — Clas, Shepherd & Clas, archts., 445 Milwaukee St., Milwaukee, Wis., and Sarasota, preparing preliminary plans 3 story and basement, brick and concrete apartment, here. $250,000. Owner's name withheld.

Fla., Sarasota—BANK and OFFICE—Ringling Bank & Trust Co. having preliminary plans prepared by Clas, Shepherd & Clas, 445 Milwaukee St., Milwaukee, Wis., and Sarasota, 5 story and basement, brick and concrete bank and office building. $500,000.

Ala., Birmingham—FIRE STATIONS—Plans election $650,000 bonds, 5 new fire stations. D. E. McLendon, mayor.

Ala., Dothan—HOTEL—G. S. Jackson, et al., purchased site and plan 12 story hotel, North Foster St. $300,000. Engineer and architect not selected.

Miss., Gulfport—BANK and OFFICE—Bank of Gulfport having plans prepared by N. W. Overstreet, Jackson, 7 story, 50 x 75 ft., rein.-con. and marble, plain foundation, 13th St. $250,000.

Miss., Laurel — HOTEL — L. W. Duffy, archt., Lowell, takes bids about Feb. 4, 100 room, 50 x 192 ft. fireproof addition Pinehurst Hotel, here.

Miss., Vicksburg—HOTEL—Natchez Hotel Co., C. C. Eyrich, takes bids about Feb. 1, remodeling Natchez Hotel and constructing 4 story, 39 x 140 ft., brick and timber annex. $150,000. Weiss & Dreyfous, Inc.,

See proposal advertisements on page 100, Advertising Section.

Buildings—Commercial (Continued)

613 Maison Blanche Bldg., New Orleans, La., archts.

Tenn., Chattanooga—BANK and OFFICE—Chattanooga Savings Bank & Trust Co. having plans prepared by R. H. Hunt Co., James Bldg., 60 x 200 ft. bank and office building. $750,000. Noted May 28.

O., Akron — WAREHOUSE — Firestone Tire & Rubber Co., 1289 South Main St., soon lets contract 1 story, concrete, brick and steel warehouse. $150,000. C. A. Myers, c/o owner, engr., Osborn Eng. Co., 7016 Euclid Ave., Cleveland, archts.

O., Akron — HOSPITAL — City plans 4 story hospital for children. West Buchtel and Bowery Sts. $450,000.

O., Cincinnati—OFFICE—Union Central Life Insurance Co., 4th and Vine Sts., having plans prepared by Garber & Woodward, Union Central Bldg., 8 story and basement, 210 x 288 ft., rein.-con. and brick, plain foundation. $2,250,000.

O., Cincinnati—WAREHOUSE—A. Rohan Co., 50 Walnut St., having plans prepared by Ferro Concrete Co., archts. and engrs., 3rd and Elm Sts., 7 story and basement, 100 x 300 ft., rein.-con. and brick, plain foundation, Main St. $200,000.

O., Cleveland—AUDITORIUM—City, W. R. Hopkins, city mgr., having plans prepared by H. Kregelius, 604 City Hall, and J. H. MacDowell, consult. archt., Bulkley Bldg., and 1 story, rein.-con., brick and steel additions on north and south end of building, East 6th St. $2,000,000. Noted Feb. 19.

O., Cleveland—STORE—Halle Bros. Department Store, S. H. Halle, pres., Euclid Ave. and Huron Rd., having plans prepared by Walker & Weeks, 1900 Euclid Ave., 6 story and basement, concrete, brick and steel addition. $750,000.

O., Wickliffe—CLUB HOUSE—Cedarhurst Country Club Co., H. H. Lind, mgr., 1068 Hanna Bldg., having plans prepared by H. E. Shimmin, 404 Bulkley Bldg., 2 story, brick, Ridge Rd. $150,000.

Ind., Richmond — HOSPITAL — Reid Memorial Hospital, having plans prepared by W. Scholer, Lafayette, 4 story, 46 x 102 ft., brick, steel and rein.-con. hospital. $200,000.

Mich., Detroit — BANK and OFFICE — J. B. Book, Jr., Book Bldg., Washington Blvd., having plans prepared by L. Kamper, 3729 Cass Ave., 22 story and basement, 60 x 100 ft., rein.-con., brick and steel, plain foundation, Washington Blvd. and Grand River Ave. $2,000,000. Noted Jan. 14.

Mich., Detroit — CLUB — German Benevolent Society c/o Mildner & Eisen, archts., 924 Hammond Bldg., having plans prepared 3 story and basement, 110 x 130 ft., brick and steel, plain foundation, Mack Ave. $200,000.

Mich., Detroit—HOSPITAL—P. R. Rossello, archt., 406 Congress Bldg., preparing plans 3 story and basement, 60 x 120 ft., rein.-con., brick and steel, plain foundation, Frederick Ave. $200,000. Owner's name withheld.

Mich., Detroit—OFFICE—Detroit Trust Co., West Fort St., having plans prepared by A. Kahn, 1000 Marquette Bldg., 1 story, mezzanine and basement, 100 x 138 ft., rein.-con., brick and steel, plain foundation, West Fort St. $300,000. Noted Jan. 21.

Mich., Fordson (mail Detroit)—HOTEL—J. H. G. Steffens, archt., 415 Brainard St., Detroit, preparing plans 4 story and basement, 60 x 100 ft., brick and steel, plain foundation, here. $150,000. Owners' name withheld.

Mich., Pontiac — HOSPITAL — Bd. Supervs. Oakland Co. having plans prepared by F. D. Madison, Royal Oak, 3 story and basement, rein.-con., brick and steel, plain foundation, in Waterford Twp. $300,000.

Mich., Wayne—THEATRE and OFFICE—C. K. Miller & Co., having plans prepared 2 story and part basement, 100 x 110 ft., rein.-con., brick and steel, plain foundation, Michigan Ave. $150,000. Engineer and architects names withheld.

Ill., Chicago — AMPHITHEATRE — P. Harmon, et al., 1701 West Van Buren St., having plans prepared by Hall, Lawrence, Rippel & Ratcliffe, 123 West Madison St., 266 x 484 ft., 152 ft. high, 50,000 seating capacity, rein.-con., brick and steel. $5,000,000.

Ill., Chicago — APARTMENT—Lindbald & Carlson, archts., 155 North Clark St., preparing plans and take bids about Mar. 1, 3 story, 125 x 150 ft., brick apartment building, 81st St. and Ingleside Ave., for C. J. Carlson, c/o architects.

Ill., Chicago — THEATRE, STORE and APARTMENT — Z. E. Smith, archt., 305 East 55th St., preparing plans and takes bids about Feb. 15, 4 story, 125 x 265 ft., rein.-con., brick and steel, East 75th St. between Essex and Kingston Aves., for E. I. Bloom, et al., 6711 Stony Island Ave. $2,000,000.

Ill., Chicago—THEATRE, BANK, STORE and OFFICE—Addison Bldg. Corp., c/o E. P. Steinberg, archt., 360 North Michigan Ave., takes bids about Mar. 1, 3 story and basement, 131 x 150 ft., brick and concrete, Addison St. and Southport Ave. $700,000.

Wis., Dodgeville — HALL — Common Council plans rein.-con., brick and steel, plain foundation. $150,000 bond issue approved. Engineer and architect not selected.

Wis., Hudson — HOTEL — Chapin Hall Hotel, c/o A. Dodge, Willard Hotel, Wash., D. C., plans rebuilding 3 story and basement, 100 x 140 ft., rein.-con., brick and steel, plain foundation, recently destroyed by fire. $150,000. Engineer and architect not selected.

Wis., Manitowoc — HOTEL — Manitowoc Hotel Co., c/o G. Vits, pres., 15th and Franklin Sts., plans 5 story and basement, 90 x 120 ft., brick and concrete, plain foundation, 8th and York Sts. $300,000. Engineer and architect not selected.

Wis., Racine—THEATRE and STORE—Rialto Amusement Co., 517 Main St., had revised plans prepared by C. H. Crane, archt., Huron Bldg., Detroit, Mich., and F. J. Hoffman, associated archt., Racine, 4 story and basement, 80 x 240 ft., brick, concrete and terra cotta, plain foundation, Main St. $500,000. Noted Oct. 1.

Wis., Rhinelander — BANK — Merchants State Bank, M. Raymond, cashier, having plans prepared by T. Shefchik, Glencoe Bldg., Duluth, Minn., rebuilding 2 story and basement, rein.-con., brick and steel, plain foundation, recently destroyed by fire. $150,000.

Wis., Sheboygan — CLUB — Sheboygan Aerie 277 F. O. E., W. G. Keil, pres., 2037 North 8th St., plans 3 story, 120 x 150 ft., brick, rein.-con. and steel clubhouse. $200,000. Engineer and architect not selected.

Wis., Wales—INFIRMARY—Wisconsin State Bd. Control, J. Hannan, pres., Capitol, Madison, plans brick, steel and concrete, plain foundation, here. $200,000 appropriated. Engineer and architect not selected.

Ia., Des Moines—BATH HOUSE, etc.—City Park Bd. having plans prepared by Henningson Eng. Co., 301 Natl. Bank Bldg., 4 story, 46 x 130 ft., rein.-con. and brick bath house, and 58 x 150 ft. swimming pool.

Minn., Minneapolis—APARTMENT HOTEL, etc.—Intersection Holding Co., M. T. Baker, pres., Baker Bldg., having plans prepared by Larson & McLaren, 308 Baker Bldg., 6 story and basement apartment hotel, Groveland and Hennipen Aves., $400,000; two 3 story and basement, 44 x 155 ft. office buildings, Marquette Ave. between 7th and 8th Sts., $250,000; and 3 story and basement, 143 x 155 ft. office building, 8th and Marquette Sts., $250,000, all rein.-con., brick and stone.

Mo., Kansas City—THEATRE—Loews Inc., Bway. and 45th St., New York City, N. Y., having plans prepared by T. W. Lamb, archt., 644 8th Ave., New York City, and Boller Bros., associated archts., 114 West 10th St., 5 story and basement, 121 x 255 ft., rein.-con., brick and terra cotta, West 13th St., here. Noted Nov. 26.

Mo., St. Louis — COMMERCIAL — A. Waldheim, 4522 Lindell Blvd., purchased site and plans 6 story and basement, 50 x 109 ft., brick and concrete, 15th and Olive Sts. $500,000.

Mo., St. Louis—OFFICE and THEATRE—Knights of Pythias, c/o St. Louis Lodge Deputies Assn., had plans prepared by W. T. Trueblood, Chemical Bldg., and soon takes bids 10 story and basement, 150 x 150 ft., rein.-con., brick, stone, steel and terra cotta, Grand and Delmar Blvds. $1,000,000. Noted Mar. 19.

Tex., Colorado—HOTEL—Hotel Investment Co., c/o R. D. Dixon & R. S. Brennand, Jr., plans 5 story, rein.-con., brick and stone, plain foundation. $155,000. Engineer and architect not selected.

Tex., Corpus Christi — HOTEL — Beach Hotel, c/o Chamberlain Operated Hotels, Inc., plans remodeling present hotel. $150,000. Engineer and architect not announced.

Tex., Dallas—HOTEL—M. Stewart, c/o Stewart Title Guaranty Co., 1301 Main St., and F. McJunkin, c/o Southland Hotel, having plans prepared by Lang & Witchell, 300 Amer. Exch. Bldg., remodeling Scotland Hotel, 1 and 2 story and basement, and constructing addition, incl. restaurant, office, hotel rooms, etc. Murphy St. from Main to Commerce Sts. $150,000.

Tex., Harlingen — CLUB HOUSE — Shriners Club, c/o J. T. Lomax, having preliminary plans prepared 2 or 3 story club house. $250,000. Private plans.

Tex., San Angelo—HOTEL—F. Roberts, having plans prepared by D. S. Castle Co., Alexander Bldg., Abilene, 4 story and basement, 75 x 100 ft., rein.-con., brick and stone hotel. $150,000. Noted Jan. 21.

Tex., San Antonio—HOTEL—T. B. Baker Hotel Co., c/o Gunter Hotel, had plans prepared by H. S. Green, c/o Alamo Natl. Bank Bldg., 3 story, rein.-con., brick and stone top addition, Houston and St. Marys Sts. $800,000. Noted Sept. 10.

Okla., Bartlesville — OFFICE — Phillips Petroleum Co. soon takes bids 7 story and basement, 60 x 140 ft., rein.-con., brick and stone, plain foundation. $500,000. Noted Oct. 16.

Okla., Okmulgee—OFFICE—Independent Oil & Gas Co., soon takes bids 5 story and basement, 77 x 140 ft., rein.-con., brick and steel, plain foundation. $350,000. Smith & Senter, Okmulgee, archts. Noted Dec. 24.

Wash., Seattle — OFFICE and WAREHOUSE—Bebb & Gould, archts., Hoge Bldg., prepared plans and take bids about Feb. 11, 4 story, 120 x 150 ft., rein.-con. and steel, 1st, South and Atlantic Sts., for Zellerbach Paper Co., 807 Western Ave. $150,000.

Calif., Los Angeles—HOSPITAL—Hospital of Good Samaritan, 1243 Wilshire Blvd., had plans prepared by R. D. Johnson, 608 Union Bank Bldg., 10 story and basement, 44 x 121 x 207 ft. rein.-con. and stucco, Shatto St. near Witner St. $1,000,000.

Calif., Los Angeles — STORE — Meyer Siegel & Co., 617 South Bway., had plans prepared by Felchlin, Shaw & Franklin, 1101 Commercial Exch. Bldg., 6 story and basement, 60 x 152 ft., stone, Flower St. between 7th and 8th Sts. $300,000.

Calif., San Diego—THEATRE, STORE and OFFICE—Kass & Ruben, Bank of Italy Bldg., Los Angeles, having plans prepared by J. P. Perrine, Lincoln Bldg., Los Angeles, 100 x 200 ft., probably rein.-con., 2,200 seating capacity, C St. To exceed $150,000. Theatre leased to West Coast Theatres, Inc., Knickerbocker Bldg., Los Angeles. Noted Aug. 20.

Calif., San Francisco—APARTMENT—California Realty & Finance Co., 319 De Young Bldg., had plans prepared by J. C. Hladik, Monadnock Bldg., six 2 story and basement, stucco and brick veneer, vicinity of 38th Ave. and Geary St. $165,000.

Calif., San Francisco — HOTEL and APARTMENT — E. N. Fritz, Jr., 1401 Masonic Ave., plans 20 story and basement, 105 x 120 ft., California St. near Mason St. $1,700,000. Engineer and architect not selected.

Calif., Santa Cruz—STORE and OFFICE—A. Balich, San Juan Rd., having plans prepared by W. H. Weeks, 369 Pine St., San Francisco, 5 story and basement, rein.-con., Pacific Ave. $150,000 or more.

SEWER—LYNN, MASS.

Bids were opened by city, Oct. 6 (lowest four and highest), for construction of 60-in. cast iron outfall sewer (A) Merritt-Chapman & Scott Corp., 17 Battery Pl., New York City (awarded contract); (B) Blakeslee-Rollins Corp., 6 Beacon St., Boston; (C) Crandall Engineering Co., 102 Border St., East Boston; (D) Bay State Dredging & Contracting Co., 62 Candor St., East Boston; (E) Great Lakes Dredge & Dock Co., 17 Battery Pl., New York City. The unit bids are as follows:

	A	B	C	D	E
14,130 lin.ft. laying 60-in. cast iron pipe and special castings for outfall sewer, exclusive of channel section	$30.00	$33.00	$33.00	$40.50	$53.00
1,150 lin.ft. laying 60-in. cast iron pipe and special castings in channel section	41.00	49.50	105.00	95.15	91.00
Constructing special outlet at end of outfall sewer (lump sum)	14,100.00	12,500.00	16,000.00	12,500.00	52,000.00
300 cu.yd. rock excavation in trench	20.00	15.00	28.00	20.00	90.00
800 ton furnishing and placing broken stone foundation	3.50	4.00	7.00	4.50	6.00
500 lin.ft. test borings	2.00	2.00	2.00	2.00	2.00
Extended totals	$494,950	$544,415	$618,040	$704,788	$756,135

See proposal advertisements on page 100, Advertising Section.

Buildings—Commercial (Continued)

Ont., London — OFFICE — London Life Insurance Co., 424 Wellington St., takes bids after Feb. 1, 4 story, 250 x 350 ft., stone, Wellington St. $1,000,000. J. M. Moore, 489 Richmond St., Archt.

Man., Winnipeg — MERCANTILE — T. Eaton Co. Ltd., Toronto, Ont., having plans prepared by Graham, Anderson Probst & White, 80 East Jackson Blvd., Chicago, Ill., 121 x 348 ft., brick and steel, Graham and Hargrave Sts., here. $170,000.

B. C., Vancouver — APARTMENT — J. Galloway, 116 7th Ave. E., having plans prepared by McCarter & Nairn, 707 North West Bldg., 3 story, 100 x 120 ft., tile and brick, concrete pile foundation, Gilford St. $150,000.

BIDS DESIRED

Mass., Boston — APARTMENT — See "Contracts Awarded."

Mass., Cambridge (Boston P. O.) — APARTMENT HOTEL — See "Contracts Awarded."

Mass., Wollaston (Ind. br. Boston) — THEATRE, etc. — Wollaston Palace Theatre Co., 64 Fenno St., taking bids 3 story, 80 x 215 ft., brick theatre. $160,000. J. A. Tuck, Park Sq. Bldg., Boston, archt.

Conn., Bridgeport—GARAGE—Feb. 1, by Mack Motor Co., 673 Connecticut Ave., superstructure 1 story, 175 x 196 ft., brick and steel, Ash Creek St. $150,000. Warren Eng. Co., Terminal St., Boston, Mass., archts. Noted Oct. 22.

Conn., New Haven—TEMPLE—Feb. 3, by Masonic Temple Assn., 4 story, 80 x 135 ft., brick and stone Masonic Temple, Whitney Ave. $450,000. Norton & Townsend, 405 Temple St., archts. Noted Nov. 26.

N. Y., Brooklyn—APARTMENT—See "Contracts Awarded."

N. Y., New York—APARTMENT—See "Contracts Awarded."

Pa., Elkins Park (ind. br. Phila.) — APARTMENT — Pearl Impvt. Corp., H. Pearl, pres., 626 South 63rd St., Phila., and H. H. Kline, archt., Bulletin Bldg., Phila., taking sub-bids 4 story and basement, 172 x 268 ft., brick and steel, plain foundation, York and Ashbourne Rds., here. $1,000,000. Noted Dec. 31.

O., Cleveland — APARTMENT — A. Kramer, 11503 Saywell Ave., taking bids 3 story and basement, 51 x 149 ft., brick, Waterbury Rd. $150,000. M. Weis, Union Bldg., archt.

O., Cleveland—COTTAGE—Feb. 13, by Dept. Welfare, 9th and Oak Sts., Columbus, 3 story, 4 wings, 30 x 100 ft. each, concrete and brick, Cleveland State Hospital grounds. $175,000. H. H. Briggs, Ohio Hartman Bldg., archt.

Mich., Detroit—THEATRE and OFFICE —P. R. Pereira, archt., 333 State St., taking bids 16 story and basement, brick, concrete, steel and stone, plain foundation, Adams Ave., for C. H. Miles, Miles Theatre Bldg., State and Griswold Sts. Noted Dec. 17.

Mich., St. Clair—HOTEL—Feb. 3, by W. H. Wyeth, archt., Port Huron, 3 story and basement, rein.-con., brick and steel, plain foundation, Main St., for St. Clair Community Hotel. $150,000.

Neb., Omaha—THEATRE—Feb. 8, by A. H. Blank Theatre Co., c/o M. B. Griffin, 1107 1st Natl. Bank Bldg., general contract 132 x 167 ft. theatre and 1 story, 40 x 100 ft. restaurant, both brick, stone, marble and terra cotta, 20th and Farnum Sts. $1,000,000. J. Eberson & Co. 212 East Superior St., Chicago, Ill., archt. Noted Jan. 21.

Calif., Los Angeles—APARTMENT—J. C. Rives, 525 Rives-Strong Bldg., taking bids 7 story and basement, 98 x 100 ft., rein.-con., Pico St. and Westchester Pl. $300,000. F. R. Dorn, 525 Rives-Strong Bldg., archt. Noted Jan. 14.

Calif., San Jose—THEATRE—Weeks & Day, archts., 315 Montgomery St., San Francisco, taking bids 1,500 seating capacity, rein.-con. and steel, South 1st St., here, for West Coast Theatres, Inc., Knickerbocker Bldg., Los Angeles. $250,000. Noted July 16.

Calif., San Francisco — HOTEL — See "Contracts Awarded."

Calif., San Francisco—APARTMENT—See "Contracts Awarded."

Sask., Regina—HOTEL—Feb. 15, by G. Broder, 939 Victoria St., 4 story and basement, rein.-con. and brick, caisson foundation, 11th and Rose Sts. $200,000. S. E. Storey & W. G. Van Egmond, McCallum Hill Bldg., archts.

BIDS RECEIVED

Ia., Des Moines—FIELD HOUSE—Drake University, 25th and University Sts., general contract 3 story, 150 x 212 ft., concrete, brick and steel, from C. Weitz Sons Co., 713 Mulberry St., $155,000; heating and plumbing, from Potthoff & Rosene, 3126 Grand Ave., $27,074.

Ia., Mason City—Y. M. C. A., C. H. McNider, chn. building com., Jan. 15, general contract 3 story and basement, brick and rein.-con., from Madsen Constr. Co., 618 Natl. Bldg., Minneapolis, Minn. Archts. est. $200,000. Noted Jan. 7.

CONTRACTS AWARDED

Mass., Boston — APARTMENT — Almont Realty Co., c/o J. Levine, 1286 Blue Hill Ave., will build 2 and 3 story, brick and timber, Almont St. $200,000. Work will be done by separate contracts. S. A. Moffie, 51 Cornhill St., Boston, archt.

Mass., Cambridge (Boston P. O.) — APARTMENT HOTEL — J. J. Shine, 1374 Massachusetts Ave., will build 6 story and basement, brick and steel, Garden and Berkley Sts. $500,000. Work will be done by separate contracts. Silverman, Brown & Heenan, 51 Cornhill St., Boston, archts. Noted Aug. 7.

Mass., Cambridge (Boston P. O.) — APARTMENT — I. Shapiro, c/o J. Driscoll, archt., 6 Beacon St., Boston, will build 4 story and basement, brick and steel, Irving St., here, by day labor. $750,000.

Mass., Roxbury (Boston P. O.) — HOSPITAL—City of Boston, City Hall Annex, Boston, 2 story and basement, 45 x 264 ft., with four 30 x 123 ft. wings, brick, steel and stone, Parker Hill, here, to T. O'Connor & Co., 218 Main St., Cambridge, $713,243. Noted Dec. 31.

Mass., Sharon—HOTEL—Springers Inn, 4 story and basement, brick, plain foundation, Massapoag Ave., to M. Druss, 60 Boylston St., Malden. Archts. est. $150,000. Noted Jan. 7.

Conn., Hartford — OFFICE — Travelers Insurance Co., 700 Main St., 10 story, 60 x 150 ft., brick, steel, plain foundation, Grove St., to Marc Eidlitz & Son, Inc., 750 Main St. Archts. est. $1,500,000. Noted Nov. 5.

Conn., New Haven — TEMPLE — Olive Branch Masons, 909 Whalley Ave., general contract 2 story and basement, 70 x 120 ft., brick and steel, to J. E. Leonard & Co., 902 Chapel St. Archts. est. $150,000. Noted Jan. 14.

N. Y., Brooklyn—APARTMENT—Kriedel Building Corp., c/o Shampan & Shampan, engrs. and archts., 188 Montague St., will build 160 x 218 ft., brick, steel and stone, plain foundation, Washington Ave. and Crown St., by day labor. $1,150,000.

N. Y., New York — APARTMENT — Wellman Constr. Co., c/o J. M. Felson, engr. and archt., 250 West 57th St,. will build brick, steel and stone, plain foundation, Walton Ave., by day labor. $325,000.

N. Y., New York—LOFT—S. Sinsheimer, 877 Bway., 14 story, brick, steel and stone, plain foundation, 249 West 29th St., to Magoba Constr. Co., 103 Park Ave. Archts. est. approximately $1,000,000.

N. J., Camden — OFFICE, STORE and RESTAURANT—R. Benckert, archt., Bellevue Court Bldg., Phila., Pa., 2 story and basement, 40 x 100 ft., and 40 x 115 ft., rein.-con., brick and steel, wood pile foundation, Federal St. and Bway., here, to Smith-Hardican Co., 1809 Callowhill St., Phila., Pa., for Mastbaum Bros. & Fleisher, 1422 Pennsylvania Bldg., Phila., Pa. Archts. est. $150,000.

Pa., Phila. — SALES and MAINTENANCE — P. S. Tyre, archt., 114 South 15th St., 8 story and basement, 64 x 69 x 77 x 236 ft., rein.-con., Broad St. and Ridge Ave., to Wark Co., 1600 Walnut St., for Cadillac Motor Car Co., 144 North Broad St. Archts. est. $500,000. Noted Jan. 7.

Pa., Phila.—STORE—H. Homes, archt., 1630 Penobscot Bldg., Detroit, Mich., 2 story and basement, 42 x 44 x 84 x 112 ft., rein.-con., brick and steel, plain foundation, 104-6 South 52nd St., to F. W. Van Loon, Perry Bldg., Phila., for S. S. Kresge Co., Kresge Bldg., Detroit, Mich. Archts. est. $200,000.

Md., Baltimore—WAREHOUSE—Montgomery, Ward & Co., Chicago Ave. and Larr St., Chicago, Ill., 8 story and basement, rein.-con. addition, plain foundation, Lincoln Highway, here, to Wells Bros. Co., 53 West Jackson Blvd., Chicago, Ill. $800,000. Noted Dec. 31.

D. C., Wash. — SHOWROOM and GARAGE—Republic Truck Co., 3?? 6th St. N. W., fireproof showroom and garage, 5th and L Sts. N. W., to J. L. Parsons, Equitable Bldg.

Ga., Atlanta — OFFICE and STORE — Whitehead Realty Co., Candle Bldg., 10 story and basement, 70 x 100 ft., stone and rein.-con., Peachtree St., to Barre-Thompson Co., 100 East Ellis St. Archts. est. $350,000. Noted Jan. 21.

Fla., Miami—COURT HOUSE and CITY HALL—Comrs. Dade Co., Sept. 15, general contract 23 story, rein.-con. and steel, for Dade Co. and City of Miami, to L. W. Hitchcock, 684 Northwest 7th St., $1,679,000; structural steel, to Nashville Bridge Co., foot Shelby Ave., Nashville, Tenn., $2?? 000; granite, to Stone Mountain Granite Corp., Stone Mountain, Ga., $131,000; and steel windows, to Crittall Casement Window Co., 10951 Hearn St., Detroit, Mich., $132,197. Noted Sept. 3.

Fla., Miami—THEATRE—I. J. Thomas Co., 2 story, steel and rein.-con., Main Highway and Charles St., Cocoanut Grove, to A. Peacock, Miami, $200,000.

Fla., Orlando — AUDITORIUM — City, 3 story, 140 x 191 ft. auditorium, to J. Peterson Constr. Co., 23 Cheney Dr. Archts. est. $150,000.

Fla., Pampano—HOTEL—L. N. Conrad of Sunnylan Corp., 218 Northeast 2nd Ave., for Sunylan Hotel, 3 story, Sunylan Blvd. and Avalon Dr., to J. S. Brennan & Sons, 1297 West 108th St., Cleveland, O., and Miami, $260,000.

Ala., Birmingham—CLUB, etc.—Building Com. Birmingham Country Club, 510 North 20th St., 2 story, 75 x 150 ft., concrete and tile, Red Mountain, to Smallman-Brice Constr. Co., 1115 Ave. E, $300,000. Noted Aug. 21, 1924.

O., Cleveland — Depot — H. D. Jonett, engr., Ulmer Bldg., 94 x 94 ft. substructure, 178 ft. deep for Center Tower Building of Union Depot group, Public Sq., to Spencer-White-Prentiss Co., 709 6th Ave., New York City, N. Y., for Cleveland Union Terminal Co., c/o O. P. and M. J. Van Sweringen, Marshall Bldg. $850,000. Noted Jan. 7 under "Buildings—Commercial."

O., Cleveland—HOTEL—Hotel Hollenden Co., C. H. Force, secy. and treas., East 6th St. and Euclid Ave., 10 story and basement, 60 x 210 ft., brick, steel and concrete addition, Superior Ave. and East 6th St., to Craig-Curtiss Co., 4614 Prospect Ave. Archts. est. $1,000,000.

O., Lakewood (br. Cleveland) — COMMERCIAL and APARTMENT — Carlton Impvt. Co., c/o A. Bralosky, pres., 826 Williamson Bldg., Cleveland, 2 story and basement, 133 x 248 ft., brick and timber, 11825 Detroit Ave., here, to I. and B. Donlinsky Constr. Co., 7713 Quincy Ave., Cleveland. Archts. est. $200,000.

Mich., Detroit—APARTMENT HOTEL—Weston & Ellington, engrs. and archts., 1507 Stroh Bldg., 12 story and basement, 171 x 250 ft., rein.-con., brick and steel, plain foundation, Woodward Ave., to Bryant & Detwiler, 2336 Dime Bank Bldg., for F. Wardell, Dewey and Hamilton Aves. Archts. est. $2,500,000.

Ill., Chicago — HOSPITAL — Washingtonian Home Assn., 2318 Irving Park Blvd., masonry and carpentry contract 3 story, 47 x 115 ft. hospital, 2318 Irving Park Blvd., to O. W. Rosenthal Constr. Co., 80 East Jackson Blvd. Archts. est. $200,000.

Ill., Melrose Park — OFFICE, etc. — Electrical Engineers Equipment Co., 2 story office building and 1 story factory, to Stone & Webster, Inc., 38 South Dearborn St., Chicago, approximately $250,000.

Wis., Milwaukee — HOSPITAL — Clas, Chepherd & Clas, archts., 445 Milwaukee St., 5 story and basement, 46 x 150 ft., brick and concrete addition, plain foundation, Cedar St., to Bentley Bros., 808 South Pierce St., for Milwaukee Hospital, 22nd and Cedar Sts. Archts. est. $300,000.

Ia., Council Bluffs—HOTEL—Eppley Hotel Co., Fontenelle Hotel, Omaha, Neb., rebuilding 98 x 159 ft. hotel, 1st Ave. and Pearl St. recently destroyed by fire, to H. L. Stevens Co., 30 North Michigan Ave., Chicago, Ill. Archts. est. $400,000. Noted Jan. 21.

Kan., Topeka—BUSINESS—L. S. Hall, Columbian Bldg., 2 story and basement, 125 x 130 ft., rein.-con., brick and stone, to Lundgren & Carlson, 213 Jackson St. Archts. est. $150,000.

Kan., Topeka—HOSPITAL—Christ Hospital, 9th and West Sts., 4 story and basement, 109 x 139 ft. hospital incl. power plant and swimming pool, to Senne Constr. Co., 518 Kansas Ave. Archts. est. $500,000. Noted Dec. 17.

See proposal advertisements on page 100, Advertising Section.

Buildings—Commercial (Continued)

Mo., St. Louis—OFFICE—Quick Payment Old Line Life Insurance Co., 901 Holland Bldg., 6 story and basement, 43 x 85 ft., rein.-con., brick, stone and steel, Bway. near Chestnut St., to Widmer Eng. Co., Laclede Gas Bldg. Archts. est. $375,000.

Tex., San Angelo—HOTEL—S. A. Naylor, Vernon, 7 story, incl. 1st story 150 x 200 ft., 5 stories 42 x 150 ft., and 7th story 21 x 61 ft., rein.-con., brick and stone, to J. S. Harrison Constr. Co., 414 Liberty Bank Bldg., Waco, $162,749. Noted Dec. 24.

Tex., San Antonio—THEATRE and OFFICE—W. J. Lytle, Princess Theatre Bldg., foundation, concrete, masonry, terra cotta, structural steel (erected), etc., for 5 story and basement, rein.-con., brick and steel, Houston St., to Walsh & Burney, 928 North Flores St., for Famous Players-Lasky Corp., et al. $439,058. Noted Jan. 21.

Okla., Oklahoma City—GARAGE—Buick Motor Co., 504 Bdwly. St., 4 story and basement, 75 x 140 ft., rein.-con., plain foundation, 10th St. and Bway., to Campbell & Price, 603½ West Main St., $200,000. Noted Nov. 26.

Wash., Aberdeen—OFFICE and STORE—F. Becker, 7 story and basement, 60 x 130 ft., rein.-con., Wishkah and I Sts., to Greene Eng. Co., Aberdeen. Archts. est. $250,000.

Calif., Berkeley — APARTMENT and STORE — Wilson & Romie, 2425 Bancroft Way, 6 story, rein.-con. and steel, Union St. and Bancroft Way, to L. R. Wilson, 2425 Bancroft Way, $150,000.

Calif., Los Angeles — APARTMENT — A. W. Menkins, 9 story and basement, 111 x 220, rein.-con., 715 South Normandie Ave., to Callahan & Sons, Edwards-Wildey Bldg., approximately $450,000. Noted Jan. 7.

Calif., Pasadena—CITY HALL—City Directors, general contract 3 story and basement, 50 x 352 ft. main section, 100 x 100 ft. dome, 200 ft. high and two 63 x 188 ft. wings, brick, steel and rein.-con., to Orndorff Constr. Co., 351 North Western Ave., Los Angeles, $753,940. Noted Jan. 21.

Calif., San Francisco—APARTMENT—F. R. Grannis, 2450 Steiner St., will build 8 story and basement, Pacific Ave. and Webster St., by day labor. $155,000. E. E. Young, 2002 California St., archt.

Calif., San Francisco—APARTMENT and STORE — McKillop Bros., Russ Bldg., 5 story, concrete, Geary and 26th Aves., to J. S. Hannah, 268 Market St., $155,000.

Calif., San Francisco—HOTEL—J. Greenback, Hearst Bldg., 6 story and basement, rein.-con., Ellis St. near Leavenworth St., to Mission Concrete Co., Inc., 180 Jessie St., $165,450.

Calif., San Francisco — HOTEL — E. Tropp, 129 Sutter St., will build 6 story and basement, rein.-con., Taylor St. near Ellis St., by day labor. $195,000. Hyman & Appleton, 68 Post St., archt. Noted Dec. 24.

Calif., San Jose—STORE and LOFT—Ashley & Evers, archts., Holbrook Bldg., San Francisco, 3 story, rein.-con., South 1st St., here, to Lindgren-Swinerton, Inc., 225 Bush St., San Francisco, for Trinkler-Dohrmann Co., Geary and Stockton Sts., San Francisco, $165,500. Noted Jan. 21.

Que., Quebec—HOTEL—Canadian Pacific R.R. Co., 230 St. James St., rebuilding section Chateau Frontenac, Duffield St., recently destroyed by fire, to Anglin Norcross Ltd., 65 Victoria St., Montreal. Archts. est. $2,000,000.

Ont., London — HOTEL — London Hotel Co., 353 Richmond St., 10 story, 200 x 250 ft., Dundas St., to Reinart Constr. Co., 110 East 42nd St., New York City. Archts. est. $1,000,000.

B. C., Vancouver—STAGE DEPOT—Pacific Stages Ltd., 724 Hornby St. W., general contract 2 story and basement, 75 x 120 ft., rein.-con. and stone, Dunsmuir and Seymour Sts., to E. J. Ryan Contg. Co., 5 Fairfield Bldg., Vancouver. Noted Oct. 29.

Buildings—Educational, Religious

PROPOSED WORK

N. H., Concord—HIGH SCHOOL—City, H. F. Lake, chn. special com., having plans prepared by J. D. Leland, 41 Mt. Vernon St., Boston, Mass., and G. W. Griffin, 72 North Main St., 3 story and basement, 130 x 280 ft., rein.-con. and brick high school. $550,000.

Mass., Gloucester—HIGH SCHOOL—City plans new high school. To exceed $150,000. Engineer and architect not selected.

R. I., Providence — NURSES HOME — Rhode Island Hospital, 593 Eddy St., having plans prepared by Clarke & Howe, 1208 Turks Head Bldg., 7 story, 85 x 124 ft., brick and steel addition. $400,000.

R. I., Wanskuck (Providence P. O.) — LIBRARY—City of Providence, Library Bd., having preliminary sketches made by Clarke & Howe, 1208 Turks Head Bldg., limestone, here. $150,000.

Conn., Hartford—CHURCH—Mt. Olive Baptist Church, G. S. Clark, pastor, 18 Bellevue St., plans 1 story and basement, brick, stone and steel church. $150,000. Engineer and architect not selected.

Conn., New Britain—SCHOOLS—City, J. M. Halloran, chn., 67 Gove Hill, plans brick and steel school with auditorium, Clinton St., $200,000; addition to Junior High School, Lee St., $200,000; also gymnasium and school, Shuttle Meadow Ave., $325,000. Engineer and architect not selected.

Conn., New Haven — LIBRARY — Yale University plans Sterling Memorial Library, with gothic tower, about 20 stories high, York, Wall, High and Elm Sts. $8,000,000. James Gamble Rogers, 154 East 46th St., New York City, archt.

Conn., New Haven — MUSEUM — Yale University having sketches made by E. Swartout, 20 West 34th St., New York City, concrete and stone museum. $2,250,000.

Conn., Waterbury — SCHOOL — St. Margaret's School, Grove St., J. N. Lewis, chn., plans new school. $150,000. Engineer and architect not selected.

N. Y., New York—CHURCH—St. Nicholas of Tolentine, B. J. Zeiser, c/o O'Connor, Delaney & Shultz, engrs. and archts., 162 East 37th St., soon takes bids brick, steel and stone, plain foundation, Fordham Rd. $500,000.

N. Y., New York — MUSEUM — Amer. Museum of Natural History, c/o Dept. Parks, Arsenal Bldg., Central Park, having plans prepared by J. R. Pope, 542 5th Ave., 5 story brick, steel and stone addition to Theodore Roosevelt Memorial Hall, plain foundation, Central Park West. $2,500,000.

N. Y., Tompkinsville (sta. Staten Island) —NURSES HOME—Staten Island Hospital, Castleton Ave., having plans prepared by Delano & Aldrich, engr. and archt., 126 East 38th St., New York City, brick, steel and stone, plain foundation, Castleton Ave. $200,000.

N. J., Paulsboro—SCHOOL—Bd. Educ. having plans prepared by Ritter & Shay, Packard Bldg., Phila., Pa., 2 story and basement school. $200,000.

Pa., Johnstown — CHURCH — Trinity Lutheran Church, c/o S. N. Carpenter, pastor, purchased site and plans 2 story and basement, 90 x 130 ft., brick and stone, Golde and Ash Sts. $200,000. Engineer and architect not selected.

Pa., Phila.—CHURCH, etc.—Heidelberg Reformed Church, Broad St. and Grange Ave., having plans prepared by Stuckert & Co., 1420 Chestnut St., stone, Gothic design, incl. auditorium, Sunday school, assembly rooms, gymnasium, etc.

Pa., Williamsport — CHURCH — Mater Dolorosa Catholic Church, G. Angio, rector, Market and 3rd Sts., plans 2 story and basement, 80 x 90 ft., stone and brick, Market St. $150,000. Engineer and architect not selected.

Md., Baltimore—CHURCH—St. Philip & St. James Roman Catholic Church, Charles and 27th Sts., J. E. Wade, pastor, plans 1 story and basement, marble, Charles and 27th Sts. $450,000. Engineer and architect not selected.

Fla., Miami — CHURCH — Westminster Presbyterian Church, P. W. Du Bose, pastor, had plans prepared by A. T. Brown, Miami, 110 x 150 ft. church, northeast 18th St. and 2nd Court. $250,000.

O., Dayton—HIGH SCHOOL—Sisters of Notre Dame having sketches made 2 story and basement high school for girls, Forest Ave. $200,000. Engineer and architect not selected.

O., East Cleveland (Cleveland P. O.) — SCHOOL—Bd. Educ., C. Tilden, dir., Shaw and Euclid Aves., having plans prepared by J. F. Cavanaugh, 2729 Prospect Ave., Cleveland, 2 story, 12 room, concrete, brick and steel addition to Caledonia School. $225,000.

Ind., Evansville—SCHOOL—Bd. Trustees, having plans prepared by J. C. Llewellyn, 38 South Dearborn St., Chicago, Ill., brick, steel and rein.-con. high school, incl. carpenter shop, cafeteria and gymnasium. $175,000.

Mich., Clawson—HIGH SCHOOL—Lane, Davenport & Peterson, archts., 1017 Charlevoix Bldg., Detroit, take bids about Feb. 3, two 2 story and basement, 50 x 60 ft., rein.-con., brick and steel additions to high school, plain foundations, here, for Bd. Educ. $150,000.

Mich., Detroit — CATHEDRAL — Visitation Parish, c/o J. Linskey, pastor, Webb Ave. and La Salle Blvd., having plans prepared by Maginnis & Walsh, c/o Detroit Diocese, 1234 Washington Blvd., 1 and 2 story and basement, 180 x 480 ft., with two 325 ft. towers, rein.-con., brick and steel, plain foundation, LaSalle Blvd., Webb and Lawrence Aves.

Mich., Wyandotte—SCHOOL—Bd. Educ. having plans prepared by B. C. Wetzel & Co., 2317 Dime Bank Bldg., Detroit, 2 story and basement, 70 x 350 ft., rein.-con., brick and steel, plain foundation. $350,000.

Ill., Bourbonnais—GYMNASIUM, etc.—St. Viator College, A. O'Mahonew, treas., plans rebuilding gymnasium, field house, dining hall and kitchen, campus, recently destroyed by fire. $250,000. Engineer and architect not selected.

Ill., Eureka — HIGH SCHOOL — Voted $200,000 bonds, 2 or 3 story and basement high school. A. Bullock, co. supt. Engineer and architect not selected.

Ill., Franklin Park—HIGH SCHOOL—Bd. Educ. having sketches made by Ashby, Ashby & Schulze, 1511 West Jackson Blvd., Chicago, 2 story, 73 x 203 ft., rein.-con. and brick high school.

Ill., Galesburg — CHURCH — First Lutheran Church soon takes bids brick and stone, plain foundation, Seminary and Water Sts. $170,000. C. Hanson, Crystal Lake, archt. Engineer not selected. Noted Jan. 29.

Ia., Newton—SCHOOLS—Election Feb. 11, $170,000 bonds, new grade school and addition to present school, each 2 story and basement, brick and rein.-con., for Bd. Educ., B. C. Berg, supt. Thomas, McLennon & Thomas, 522 17th St., Des Moines, archts. Noted Jan. 7.

Ill., Peoria—SCHOOL—Bd. School Inspectors, G. T. Mowat, secy., takes bids in February or March, 3 story, 86 x 251 ft., rein.-con., brick and stone school. $300,000. W. W. Day, 1014 Peoria Life Bldg., archt.

Wis., Madison—CHURCH—St. Andrews Episcopal Church, F. Bloodgood, pastor, Stockton Court, plans 60 x 150 ft., rein.-con., brick and stone church. $150,000. Engineer and architect not selected.

Minn., St. Paul — CHURCH — Hamline Methodist Episcopal Church, c/o G. H. Gentz, pres., 1524 Capitol Ave., plans rebuilding brick and stone, Capitol and Snelling Aves., recently destroyed by fire. $250,000. Engineer and architect not announced.

Kan., Topeka—HIGH SCHOOLS—Bd. Educ. having plans prepared by T. W. Williamson & Co., 312 Central Natl. Bank Bldg., 3 Junior High Schools. $380,000. Noted Dec. 17.

Mo., Joplin—SCHOOLS—Bd. Educ. having preliminary plans prepared by Smith & Van Pelt, archts., 819 Frisco Bldg., and J. H. Felt & Co., associated archts., 300 West 47th St., Kansas City, for schools. $750,000.

Ark., Fayetteville—UNIVERSITY—University of Arkansas takes bids about Feb. 15, 3 story, rein.-con., brick and stone engineering and agricultural buildings, on campus. $650,000. Jamieson & Spearl, Arcade Bldg., St. Louis, Mo. and H. R. Burke, 307 Southern Trust Bldg., Little Rock, archts. Noted Dec. 17.

Ark., Little Rock—HIGH SCHOOL—Bd. Educ. takes bids in spring 3 story, rein.-con., brick and stone, 14th and Park Sts. $850,000. Wittenborg, Deloney & Watts, 408 Southern Trust Bldg., Mann & Stern, 705 A.O.U.W. Bldg. and J. P. Almand, 1107 Boyle Bldg., archts. Noted March 5.

Tex., Austin — ADMINISTRATION — Texas Lutheran College, having plans prepared by H. P. Smith, c/o Natl. Bank of Commerce Bldg., San Antonio, 3 story and part basement, rein.-con., brick and stone, plain foundation, Austin-Cameron Highway. $400,000.

Tex., Ft. Worth — SCHOOLS — Election soon $500,000 bonds, new schools for Bd. Educ., C. M. Moore, supt. W. G. Clarkson, 1st Natl. Bank Bldg., archt.

Tex., Tahoka—HIGH SCHOOL—Election soon $150,000 bonds new high school, for Bd. Educ. Engineer and architect not selected.

Okla., Tulsa—CHURCH and SUNDAY SCHOOL—Boston Ave. Methodist Episcopal Church, 5th St. and Boston Ave., J. Rice, pastor, soon takes bids 1 story and basement, 125 x 200 ft., brick and steel, plain

See proposal advertisements on page 100, Advertising Section.

Buildings—Educational, Religious (Cont.)

foundation. $500,000. R. H. Hunt & Co., 1407 Southwestern Life Bldg., Dallas, Tex., archts. Noted Nov. 19.

Wash., Olympia—HIGH SCHOOL—Election Jan. 30, $180,000 bonds, 3 story and basement, 50 x 140 ft. addition to high school, Washington St. between 12th and 13th Aves., for Bd. Educ.

Calif., Centerville — HIGH SCHOOL — Plans election $225,000 bonds, high school addition, incl. gymnasium, auditorium, shops, corridor connections, etc., for Washington Union High School Dist.

Calif., Davis—SCHOOL—Plans election $150,000 bonds, high school, for Davis High School Dist. L. F. Starks, Ochsner Bldg., Sacramento, archt.

Calif., Los Angeles—CHURCH—St. Brendens Parish having plans prepared by E. G. Martin, 520 Citizens Natl. Bank Bldg., 3 story, 45 x 148 ft., steel and timber, 3rd St. and Wilton Pl. $150,000.

Calif., Los Angeles—COLLEGE—Roman Catholic Bishop of Los Angeles and San Diego, having plans prepared by A. C. Martin, Higgins Bldg., 3 story and basement, 120 x 250 ft., brick, 3rd and Detroit Sts. $150,000. Noted Nov. 26.

Calif., Sacramento — CHURCH — Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco, plans St. Stephen's Parish Church, fireproof, 39th and I Sts., here. $150,000. Engineer and architect not selected.

Que., Verdun—CHURCH—St. Willibrods Roman Catholic Church, W. Ryan, pastor, soon takes bids rein.-con., brick and steel church, Willibrod Ave., here. $170,000. Gravel & Lahberte, Montreal, archts.

Ont., Kenora — HIGH SCHOOL — Bd. Educ., G. A. Toole, chn., plans 2 story and basement, 8 room, rein.-con. and steel, plain foundation. $150,000. Engineer and architect not selected.

Ont., Toronto—SCHOOLS—Bd. Educ., 155 College St., plans brick, concrete and tile additions to John Fischer, Bedford Park, Eglinton, Earl Haig and Bruce Schools. $400,000. C. E. Dyson, 155 College St., archt.

BIDS DESIRED

Mass., Medford (Boston P. O.) — CHURCH — St. James Roman Catholic Church, A. Murphy, pastor, Fellsway corner 4th St., taking bids 1 story and basement, brick and stone church. To exceed $150,000. E. T. P. Graham, 171 Newbury St., Boston, archt. Noted Oct. 29.

Mass., Norwood—SCHOOL—Feb. 5, by St. Catharines's School, J. F. Doherty, pastor, 2 story and basement, brick and steel, Nahatan St. $150,000. McLaughlin & Burr, 88 Tremont St., Boston, archts. Noted Dec. 17.

Conn., Stamford—SCHOOL—Jan. 28, by Town, C. H. Martin, chn. com., City Hall, 2 story and basement, 45 x 128 ft., rein.-con., brick and stone, plain foundation, Glenbrook Rd. $200,000. J. B. Holbrook, 70 East 45th St., New York City, engr. B. G. Goodhue Associates, 2 East 47th St., New York City, archts.

N. J., Montclair—SCHOOL—Feb. 1, by Bd. Educ., 22 Valley Rd., New Bedford School, brick, steel and stone, plain foundation. $350,000. Starrett & Van Vleck, 393 7th Ave., New York City, engrs. and archts. Noted Dec. 24.

Pa., Donora — SCHOOL — Bd. Educ. and C. C. Compton, archt., Donora, taking bids 3 story and basement, 56 x 132 ft. addition to Castner Grade School. $150,000. Noted Mar. 26.

Pa., Phila.—JUNIOR HIGH SCHOOL—Feb. 2, by Bd. Educ., J. D. Cassell, supt. buildings, 19th St. above Chestnut St., 4 story, loft and basement, 159 x 268 ft., rein.-con. and brick, plain foundation, 26th and Cumberland St. $1,300,000. I. T. Catharine, 19th St. above Chestnut St., archt.

Pa., Phila.—SCHOOL—Feb. 1, by H. D. Dagit, archt., 34 South 17th St., 4 story and basement, 69 x 121 ft., rein.-con., steel, brick and granite addition, plain foundation, Springfield Ave. and Farragut Terrace, for St. Francis de Sales Parish. $250,000.

Pa., Phila.—SUNDAY SCHOOL—Feb. 2, by S. Miller, archt., 1117 Foulkrod St., 2 story and basement, 50 x 118 ft., stone and steel, plain foundation, Tyson and Glenlock Sts., for Disston Memorial Presbyterian Church. $150,000.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., taking bids 2 story and basement, 110 x 200 ft., rein.-con., brick and steel, plain foundation, St. Aubin Ave. $225,000. McGrath, Dohmen & Page, 2231 Park Pl., archts.

Mich., Newberry—HIGH SCHOOL—Mar. 1, by Bd. Educ., H. Kunert, chn., 3 story and basement, rein.-con. and brick, plain foundation. $300,000. G. Arntzen, Escanaba, archt.

Wis., Beloit—SCHOOL—Feb. 23, by St. Judes Catholic Congregation, c/o J. Hanz, pastor, 747 Hackett St., 2 story, 60 x 140 ft., rein.-con., brick, steel, plain foundation. $150,000. F. H. Kemp, Goodwin Blk., archt. Noted Oct. 22.

Wis., Racine — SCHOOL — Feb. 3, by J. M. Matson, archt., Baker Blk., 2 story and basement, 67 x 129 ft., brick, tile concrete, plain foundation, for St. Edward Congregation, J. Bott, pastor, 1330 Grove Ave. $150,000.

Calif., Los Angeles—SCHOOL—Feb. 3, by Bd. Educ., Russell School, 2 story and basement, brick. $150,000. O. Clark, Chapman Bldg., archt. Noted Jan. 21.

Calif., Pasadena—HIGH SCHOOL—Feb. 8, by Bd. Educ., 2 story, 160 x 200 ft., rein.-con. addition to Center-Oak Knoll High School. $200,000. Austin & Ashley, Chamber of Commerce Bldg., Los Angeles, archts. Noted Jan. 21.

BIDS RECEIVED

N. J., Totowa (mail Paterson)—DORMITORIES—B. G. Lewis, comr., at office Division Architecture & Construction, 643 Broad St., Newark, Jan. 12, general contract group 25 buildings, incl. dormitories, recreation, administration, etc, at Training School for Feeble Minded Females, here, for State Bd. Institutions & Agencies, Trenton, from C. J. Smith Constr. Co., 204 Academy St., Trenton, $1,173,834; plumbing, from G. J. Tobin, 187 North Ave., Plainfield, $99,997; heating, from J. H. Cooney, Harrison, $72,800; and electrical work, from Hoffman & Elias, 59 West 51st St., New York City, N. Y., $66,900. Noted Jan. 7.

Pa., Avalon (Pittsburgh P. O.)—HIGH SCHOOL—Bd. Educ., 2 story and basement, 96 x 113 ft. high school, from H. L. Ley Co., Westinghouse Bldg., Pittsburgh, $169,425. Archts. est. $180,000.

Calif., Van Nuys—HIGH SCHOOL—Los Angeles Bd. Educ., Jan. 13, 2 story, 75 x 225 ft. domestic science building, 1 story, 72 x 223 ft. manual arts building, and 1 story 30 x 40 ft. boiler house, here, from W. E. Warne, 1111 Rives-Stong Bldg., Los Angeles, $159,250. Noted Jan. 7.

CONTRACTS AWARDED

Mass., Pittsfield — CHURCH — First Church of Christ, 131 South St., 1 story and basement, 66 x 90 ft., brick and stone, Wendall Ave., to D. H. Pike, 30 Eagle St. Archts. est. $150,000.

R. I., Providence — COLLEGE — Rhode Island State College, 4 story, 60 x 200 ft., terra cotta, brick and steel, Francis St., to E. Turgeon, 86 Weybosset St. Archts. est. $650,000. Noted June 18.

N. Y., Hastings—SCHOOL—Union Free School Dist., C. C. Delaney, clk., 3 story, brick, steel and stone, plain foundation, to Blumar Constr. Co., 25 West 43rd St., New York City. Archts. est. $300,000. Noted Dec. 10.

N. Y., New York—NURSES HOME—Mt. Sinai Hospital, 5th Ave. and 100th St., 15 story, brick, steel and stone, plain foundation, 5th Ave., to Hegeman-Harris Co., 360 Madison Ave. Archts. est. $1,500,000.

D. C., Wash.—SCHOOL—Dist. Comrs., Cardoza School, to King Lumber Co., Charlottesville, Va., $192,300. Noted Jan. 21.

N. C., Wilmington — CHURCH — First Presbyterian Church, A. D. P. Gilmour, pastor, remodeling church, to U. A. Underwood, Wilmington. Archts. est. $300,000. Noted Jan. 21.

O., Cleveland — CHURCH — Walker & Weeks, archts., 1900 Euclid Ave., 1 and 2 story, concrete, brick and steel, East 107th St. and East Blvd., to Craig-Curtis Co., 4614 Prospect Ave., for Epworth-Euclid Methodist Episcopal Church, L. C. Wright, pastor, 2547 Derbyshire Rd. Archts. est. $1,000,000. Noted Dec. 10.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., general contract 2 story and basement, rein.-con., brick and steel, plain foundation, Puritan Ave., to A. W. Kutsche & Co., 333 State St., $123,760; heating, etc., to Drake Avery Co., 210 State St., $42,590. Noted Jan. 14.

Ill., Chicago—HIGH SCHOOL and CONVENT—Trinity High School Corp., c/o O. W. Kallal, archt., 111 West Washington St., masonry contract 3 story and attic, brick and stone, Division and Lathrop Sts., to E. L. Archibald Co., Inc., 111 West Washington St.; cut stone, to C. Fanning & Co., 1616 South 52nd St.; plumbing, to Murphy Plumbing Co., 1720 South Michigan Ave.; carpentry, to D. H. Doyle & Son, 5839 Kenmore Ave.; slate roof, to H. C. Kinsley Co., 1912 South Western Ave.; rein.-con., to Concrete Eng. Co., 1926 South 52nd St. Archts. est. $750,000.

Mich., Dearborn—SCHOOL—Bd. E[illegible] story and basement, 85 x 125 ft., c[illegible] brick and steel, plain foundation, [illegible] St., to G. Anderson, 6118 Lawton [illegible] Detroit. Archts. est. $150,000. [illegible] Oct. 29.

Tex., Dallas—CHURCH—Hi-Land [illegible] Methodist Congregation, c/o U. Lee, [illegible] 2 story and sub-basement, 151 x [illegible] ft., rein.-con., brick and stone, to R[illegible] Maclay Constr. Co., 611 Kirby Bldg., $42,[illegible] 615. Noted Apr. 2.

Calif., Oakland—SCHOOL—Bd. [illegible] Garfield School, 2 story and basement, [illegible] and tile, East 17th St. and 22nd Ave., to W. C. Keating, Forum Bldg., Sacramento, $183,650. Noted Dec. 31.

Que., St. Camille — CHURCH — R[illegible] Catholic Congregation, 80 x 150 ft. church, to Plante & Langlier, St. Victor de Tring. Archts. est. $200,000.

Federal Government Work

PROPOSED WORK

Ky., Louisville—Beartrap Leaves—U. S. Engineer Office, P. O. Box 72, rejected bids Dec. 28, beartrap leaves for Dams 45 and 49, Ohio River. Will readvertise. Noted Dec. 3.

Calif., Mare Island — Dredging — Spec. 5172—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids Jan. 20, dredging at Turning Basin (submarine repair base), Navy Yard, here. Noted Jan. 7.

BIDS DESIRED

N. Y., Buffalo—Breakwater—Feb. 18, by U. S. Engineer Office, Federal Bldg., superstructure for breakwater in Buffalo Harbor.

N. Y., New York—Dredging—Feb. 26, by U. S. Engineer Office, Army Bldg., 39 Whitehall St., dredging in Harlem River; adv. E. N.-R. Jan. 28.

N. Y., Troy—Post Office—Feb. 16, by Treas. Dept. at office Supervising Architect, Wash., D. C., mailing vestibule, mezzanine floor, etc., at U. S. Post Office, here. J. A. Wetmore, Wash., D. C., acting supervising archt.

D. C., Wash.—Cement—Feb. 5, by A. L. Flint, genl. purch. agt., Panama Canal, Portland cement.

Fla., Pensacola — Fuel Storage — Spec. 5107—Feb. 10, by Bureau Yards & Docks, Navy Dept., Wash., D. C., fuel and gasoline steel storage tanks, for Naval Air Station, here. Noted Dec. 24.

Ala., Mobile—Water Pipe, etc.—Feb. 5, by Treas. Dept. at office Supervising Archt., Wash., D. C. submarine water pipe and electric cables for proposed Quarantine Station, Sand Island, near here. J. A. Wetmore, acting superv. archt.

Nebraska and Wyoming—Valves, etc.—Feb. 23, by E. Mead, comr. Bureau Reclamation, Denver, two 24 in. drum gate regulating valves for Guernsey Dam and two 24 in. regulating needle valves, for Minatare Dam, North Platte Project, Nebraska-Wyoming. This corrects report in Jan. 21 issue.

S. D., Hot Springs—Refrigeration Plant, etc.—Feb. 16, by U. S. Veterans Bureau, Room 791, Arlington Bldg., Wash., D. C., refrigeration and ice making plant, at U. S. Veterans Hospital, here.

Wyo., Cheyenne—Additions—Feb. 10, by Treas. Dept. at office Supervising Architect, Wash., D. C., constructing mezzanine floor, store room, vault extensions, etc., at U. S. Public Building, here. J. A. Wetmore, acting supervising archt.

Tex., Brownsville—Remodeling—Feb. 23, by Treas. Dept., at office Supervising Architect, Wash., D. C., remodeling and enlarging U. S. Court house, Custom House, and Post Office, here. J. A. Wetmore, acting supervising archt.; adv. E. N.-R. Jan. 28.

Calif., San Diego—Water Meter, etc.—Spec. 5165—Feb. 24, by Bureau Yards & Docks, Navy Dept., Wash., D. C., water meter, tank equipment, etc., for Naval Operating Base (Marine Corps Base), here. Noted Dec. 24.

Calif., Santa Rosa—Remodeling—Feb. 15, by Treas. Dept., at office Supervising Architect, Wash., D. C., remodeling and enlarging post office, here. J. A. Wetmore, acting supervising archt.

BIDS RECEIVED

Wis., Milwaukee — Steel — Supt. Lighthouses, Jan. 18 fabricated steel for one steel plate lighthouse tower, for North Breakwater, here, from Milwaukee Structural Steel Co., 39th and State Sts., $5,280. Noted Dec. 31.

Montana—Roads—C. H. Purcell, dist. engr. Bureau Pub. Roads, Dept. Agriculture, Post Office Bldg., Portland, Ore., grading

See proposal advertisements on page 100, Advertising Section.

Federal Government Work (Continued)

and surfacing 4.35 mi. Swamp Creek Sect. Clark Fork Highway, Cabinet Natl. Forest, here, from G. A. Sutherland, Troy, $42,771.

CONTRACTS AWARDED

N. Y., Jamestown—Remodeling—Treas. Dept., at office Supervising Architect, Wash., D. C., remodeling, etc., at U. S. Post Office, here, to Garber & Cissel, Bethlehem, Pa., $10,490. Noted Dec. 10.

Pa., Phila.—Dredging Sleeves—U. S. Engineer Office, 1505 Race St., 722 rubber dredging sleeves, to Pioneer Rubber Mills, 234 Sacramento St., San Francisco, Calif., $35,584. Noted Dec. 10.

D. C., Wash.—Dock—Spec. 5169—Bureau Yards & Docks, Navy Dept., creosoted timber fender piles and superstructure for dock, Naval Air Station, Anacostia, here, to Concrete Oil Tank Co., 519 Mills Bldg., $6,849 (75 days). Noted Jan. 21.

Ga., Atlanta — Sewer — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., sewer line at U. S. Veterans Hospital, here, to J. B. McCrary Eng. Corp., 1408 Citizens & Southern Bank Bldg., Atlanta, $8,767. Noted Jan. 21.

O., Chillicothe — Curbing, etc. — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., curbing and sidewalks at U. S. Veterans Hospital, here, to Bayne & McCalla, Chillicothe, $5,801. Noted Dec. 31.

Wash., Walla Walla — Roads — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing roads at U. S. Veterans Hospital, here, to H. L. Wilson, Jaycox Bldg., $4,200. Noted Dec. 31.

Oregon—Road—C. H. Purcell, dist. engr., P. O. Bldg., Portland, grading, etc., 1.4 mi. Scholfield Sect. Scottsburg-Reedsport Natl. Highway, Douglas Co., to I. J. Rosten, Exch. Bldg., Portland, $58,580. Noted Jan. 7.

Unclassified

PROPOSED WORK

Coal Plant—Boston, Mass.—Boston & Maine R.R., North Sta., making plans coaling plant, incl. 5 steel loading towers and distributing bridge, at Mystic Wharf. $500,000. Private plans.

Ferry Drops—Boston, Mass.—Dept. Pub. Wks., plans ferry drops at North Ferry. $140,000. J. E. Carty, City Hall, engr.

Gas Mains — New Jersey — New Jersey Gas & Electric Co., 49 North Sussex St., plans 6 mi. mains from Dover to Netcong and Stanhope. Engineer not selected.

Swimming Pool—Williamsport, Pa.—See "Buildings—Commercial."

Swimming Pool — Wash., D. C. — See "Buildings—Commercial."

Land Development—North Carolina—See "Buildings—Commercial under Carthage."

Hydro-Electric Power Development — Waynesville, N. C.—Pigeon River Power Co., associated with Electric Bond & Share Co., 65 Bway., New York City, N. Y., made surveys hydro-electric plant on Pigeon River, 20 mi. northwest of here. $12,000,000. C. S. Walters, vice-pres. Asheville Power & Light Co., Asheville, interested.

Lighting System—Ft. Meade, Fla.—Election Feb. 9, $40,000 bonds, street lighting system.

Boiler—De Kalb, Ill.—Illinois Power Co., Springfield, plans new boiler and appurtenances at light and power plant, here. $127,000. A. D. Mackie, genl. mgr.

Stadium — Evanston, Ill. — Northwestern University and J. G. Rogers, archt., 367 Lexington Ave., New York City, N. Y., take bids about Feb. 10, stadium, 1,000 ft. long, 127 ft. high 3 decks, concrete, Central St. $1,000,000. G. Haddon, 280 Madison Ave., New York City, N. Y., engr. Noted Nov. 12.

Grand Stand, etc. — Fairmount, Ill. — Fairmount Jockey Club, c/o L. T. Hay, pres., making plans enlarging grand stand, concrete and brick club house, additional stables, reconstructing drainage system, landscape work, etc. $250,000.

Grain Elevator — New Berlin, Ill. — Farmers Grain Co., W. E. Munson, genl. mgr., soon lets contract rebuilding grain elevator, recently destroyed by fire. $27,000.

Telephone Lines, etc.—Peoria, Ill.—Illinois Bell Telephone Co., 320 Fulton St., G. Treadway, genl. mgr., plans new lines and equipment. $100,000.

Street Lighting System—Menasha, Wis.—J. F. DeCaro, city clk., soon takes bids street lighting system on Washington, Main, Tayco and Racine Sts. $25,000.

Swimming Pool—Des Moines, Ia.—See "Buildings—Commercial."

Gas Pipe Line — Texas — Houston Gulf Gas Co., Houston, making surveys gas line from Webb Co. fields to Austin, via Gonzales. $2,000,000. Private plans.

Oil Pipe Line, Texas — Amer. Refining Co., Wichita Falls, making plans 200 mi. 12 in. oil pipe line from fields near Wichita Falls to Carson Co. $4,500,000. Private plans.

Power Lines—Texas—West Texas Utility Co., G. W. Fry, vice-pres. and genl. mgr., Abilene, making surveys 125 mi. power line from Abilene to Junction, $100,000; 42 mi. line from Junction to Rock Springs, $50,000; and 33 mi. line from Junction to Mason, $40,000. Private plans.

Crushing Plant, etc. — Collado (mail Lobo), **Tex.** — Micolithic Co., c/o A. F. Fisher, 203 Cotton Exch. Bldg., Houston, plans stone crushing plant 500 ton daily capacity, quarry plant to handle 1,000 tons, and 5¾ mi. railway embankment and track. $200,000.

Transmission Line—Texas—Crystal City Electric Light & Ice Co., Crystal City, making plans power transmission line from Crystal City to River Spur. $30,000. Private plans.

Gas Pipe Line—San Antonio, Tex.—Seagraves & Moody, c/o M. Eskridge, c/o Brady Bldg., making plans 72 miles 12 in. natural gas pipe line from Colefield to San Antonio. $2,000,000.

Transmission Line, etc. — Oklahoma — Town of Aline made preliminary plans 30 mi. transmission line from Fairview to Cleo Springs to Aline, and distribution system in Aline, etc. $40,000. H. G. Olmsted, Oklahoma Bldg., Oklahoma City, engrs.

Electric Light System, etc. — Redland, Okla.—Made preliminary plans electric light system and 10 mi. electric transmission line to connect with Oklahoma Gas & Electric Co. high lines. $25,000. C. W. Geren, mayor. Engineer not selected.

Lighting System — Alhambra, Calif. — Plans street lighting system on Emory Park tract. $55,000.

Lighting Systems — Toronto, Ont. — Bd. Educ., 155 College St., plans electric lighting systems in schools not so equipped. $63,900. C. E. Dyson, 155 College St., archt.

Fire Alarm System—Jonquieres, Que.—Plans fire alarm system, incl. distribution table, switch board, alarm boxes, etc. $40,000. J. Smith, c/o Northern Electric Co., Montreal, engr.

BIDS DESIRED

Refrigerating Plant—New York, N. Y.—Feb. 2, by Bd. Trustees Bellevue & Allied Hospitals, J. J. McGrath, chn. at office General Medical Supt., 415 East 26th St., for refrigerating plant, etc. in power house of Bellevue Hospital, foot East 29th St.

Ash Handling Equipment, etc.—Detroit, Mich.—Jan. 30, by J. S. Foley, secy. Pub. Lighting Comn., 174 East Atwater St., ash handling equipment, boiler settings, etc., for power plant, foot Morrell St. Former bids rejected. Smith, Hinchman & Grylls, 800 Marquette Bldg., engrs. Noted Dec. 10.

Lighting System—Kenilworth, Ill.—Feb. 2, by Randolph Perkins Co., 38 South Dearborn St., Chicago, 370 ornamental street lights, concrete posts, etc. on various streets for Village. $118,000.

Gas Pipe Line — Corpus Christi, Tex. — J. P. Logan, mayor, taking bids 31,000 ft. 6 in. gas pipe line from city limits to Saxtet Wells. $28,000. J. T. Wright, city secy.

Transmission Line — Texas — See "Contracts Awarded."

Gasoline Stills—Port Arthur, Tex.—See "Contracts Awarded."

Swimming Pool — Inglewood, Calif. — Inglewood Union High School Dist., Grevillea St., taking bids 1 story, 78 x 110 ft., timber building, incl. 50 x 75 ft., rein.-con. swimming pool. G. A. Howard, Jr., 819 Story Bldg., Los Angeles, archt. $50,000. Noted Jan. 28.

BIDS RECEIVED

Subway — New York, N. Y. — J. H. Delaney, chn. Bd. Transportation, 49 Lafayette St., Jan. 22, subway Sect. 5, Route 102, along and under 8th Ave. from West 48th to 58th Sts., incl. spurs under private property from West 52nd St. to 54th Sts., from Heyman & Goodman Co., Inc., 236 West 116th St., (a) $6,641,678 (b) $6,627,053 and (c) $6,934,178. Noted Jan. 14.

Ornamental Lighting System — Los Angeles, Calif. — For 286 Marbalite posts and connections on Melrose Ave., from Newbery Electric Corp., 726 South Olive St., $85,782.

Ornamental Lighting System—Pasadena, Calif.—City Trustees, ornamental lighting system on Linda Vista Ave. between Iverness and Afton Sts., from Newbery Electric Corp., 726 South Olive St., Los Angeles, $47,902.

CONTRACTS AWARDED

Subway—Long Island City, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, subway, Sect. 6-E-1, Route 8 along and under Wyckoff Ave. from Halsey St. to Cooper Ave., here, to Oakdale Constr. Co., 163 Wyckoff Ave., $1,345,778. Noted Jan. 14.

Swimming Pool — Topeka, Kan. — See "Buildings—Commercial."

Culverts — Wellington, Kan. — See "Bridges."

Transmission Line — Texas — Western Pub. Serv. Co., Bryan, will build 40 mi. power transmission line from Navisota to Madisonville, by day labor. $40,000. Private plans.

Grade Raising, etc.—Galveston, Tex.—Bd. City Comrs., grade raising, 5,500,000 cu.yd. sand filling by dredge from Galveston Bay, to United Dredging Co., 323 Security Bldg., $0.2997 per cu.yd. Noted Jan. 7.

Gasoline Stills—Port Arthur, Tex.—Gulf Refining Co., will build 20 high pressure gasoline stills, by day labor. $1,500,000. Private plans.

Materials

PROPOSED WORK

Road Oil — Watertown, Wis. — Bd. Pub. Wks., F. S. Weber, city clk., soon takes bids 100,000 gal. road oil.

BIDS DESIRED

Iron Castings—New Haven, Conn.—Feb. 5, by New York, New Haven & Hartford R.R. Co., malleable iron castings, required for 1 year beginning Mar. 1, 1926. N. M. Rice, vice pres.

Sand Grit, etc.—Long Island City, N. Y.—Jan. 29, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 5,000 cu.yd. white sand grit, 23,000 tons steam ashes, 350,000 gal. asphaltic macadam binder, and 600,000 gal. road oil for cold application.

Sand Grit—New York, N. Y.—Feb. 4, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., 10,000 cu.yd. sand grit.

Bituminous Material — Pennsylvania — Feb. 2, by State Hy. Dept., Harrisburg, approximately 1,325,000 gal. bituminous material Specifications P. and J., and approximately 4,700,000 gal. Specifications C. D. and H.

Corrugated Metal Pipe — Pennsylvania.—Feb. 1, by State Hy. Dept., Harrisburg, approximately 41,000 ft. 12- to 36-in. corrugated and 5,600 ft. rein.-con. pipe, delivered at various points.

Crushed Stone — Pennsylvania — Jan. 29, by State Hy. Dept., Harrisburg, approximately 162,000 tons various sizes crushed stone delivered at various designated points.

Culvert Pipe—Mendenhall, Miss.—Feb. 1, by Supervs. Simpson Co., 1 medium size carload 18 in. culvert pipe. T. B. Durr, clk.

Piles—New Orleans, La.—Feb. 2, by Port Comn., 199 creosoted piles, 85 ft. long.

Road Oil—White Hall, Ill.—Feb. 2, by City Council, G. L. Thompson, city clk., 60,000 to 100,000 gal. road oil from 50 to 70% asphalt, shipped in 10,000 gal. tank cars. $6,500.

Paving Blocks, etc.—Milwaukee, Wis.—Feb. 1, by Central Bd. Purchases, 7,000 more or less sq.yd. 3.5 in. rectangular creosoted wood paving blocks, 16 lb. treatment.

Cement, etc.—New London, Wis.—Feb. 2, by C. J. Thompson, city clk., 9,000 bbl. Portland cement, 3,000 cu.yd. gravel, and 2,000 cu.yd. sand, for paving Mill St.

CONTRACTS AWARDED

Cement — Baltimore, Md. — Mayor and City Council, 10,000 bbl. cement to Natl. Building Supply Co., 210 Garrison Lane, at $2.75.

Cement—Missouri—State Hy. Dept., Jefferson City, 34,000 bbl., to Pyramid Portland Cement Co., 508 Insurance Exch. Bldg., Des Moines, Ia., at $2.55 and $2.56 per bbl.; 13,500 bbl., to Hawkeye Portland Cement Co., 606 Hubbell Bldg., Des Moines, Ia., prices ranging from $2.59 to $2.67; 313,050 bbl., to Missouri Portland Cement Co, Post Dispatch Bldg., St. Louis, $2.32 to $2.95; 157,800 bbl., to Marquette Cement Co., Cape Girardeau, $2.70 to $2.89; 384,250 bbl., to Great Western Portland Cement Co., Mildred, Kan., $2.53 to $2.63; 162,500 bbl., to Dewey Portland Cement Co., Dewey, Okla., $2.47 to $2.81; 164,550 bbl., to Ash Grove Lime & Portland Cement Co., Chanute, Kan., $2.40 to $2.85; 123,750 bbl., to Monarch Portland Cement Co., Humboldt, Kan., $2.47 to $2.70; 106,500 bbl., to Kansas Portland Cement Co., Bonnor Springs, Kan., $2.49 to $2.72; and 12,500 bbl., to Fredonia Portland Cement Co., Fredonia, Kan., $2.45. Noted Dec. 10.

See proposal advertisements on page 100, Advertising Section.

The CONCRETE REINFORCING STEEL INSTITUTE

is a national organization of fabricators of reinforcing steel with warehouses in thirty-five leading cities.

This Institute has been formed to cooperate with Architects, Engineers and Contractors throughout the country in the advancement of reinforced concrete construction.

Indirectly, the Institute serves the owners of construction projects in this vast country of ours by its members' investment in plant and equipment in these thirty-five "service stations." Steel is fabricated and delivered to jobs *as needed.* Thus many projects begin to earn on capital invested, *earlier than anticipated,* through elimination of delays.

Among other activities, the Institute is supporting whole-heartedly the Elimination of Waste Campaign of the United States Government. Standard practice and elimination of waste in the building industry will do much to lower costs and widen the market to the advantage of all.

The Institute is in touch with the latest developments in reinforced concrete construction. This data is available to Architects, Engineers and Contractors. The Concrete Reinforcing Steel Institute offices are located at 160 North La Salle Street, Chicago.

Members

American System of Reinforcing
Chicago
Hugh J. Baker & Company
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Baker Warehouse
Philadelphia
Barker Steel Company
Boston
Barton Spider Web System
Chicago
Building Products Company
Toledo
Capitol Steel & Iron Company
Oklahoma City
Carlem Engineering Company
Pittsburgh
Colorado Builders Supply Company
Denver
Concrete Engineering Company
Omaha
Concrete Steel Company
New York City
Cowin & Company, Inc.
Minneapolis
Olney J. Dean & Company
Chicago
Dietrich Brothers
Baltimore
Dudley Bar Company
Birmingham
Fireproof Products Company
New York City
Gabriel Steel Company
Detroit
W. J. Holliday & Company
Indianapolis
Hustad Company
Minneapolis
Igoe Brothers
Newark
Kalman Steel Company
Chicago
Knoxville Iron Company
Knoxville
Lewis N. Lukens
Philadelphia
McClintic-Marshall Company
Philadelphia
Metzger-Richardson Company
Pittsburgh
Penn Metal Company
Cambridge
Rosslyn Steel & Cement Company
Washington
Joseph T. Ryerson & Son, Inc.
Chicago
Southern G-F Company
Atlanta
Truscon Steel Company
Youngstown
Edward A. Tucker Company
Boston
Widmayer Steel, Inc.
Washington
Wilson-Weesner-Wilkinson Company
Nashville

CONSTRUCTION NEWS

Engineering News-Record, Feb. 4, 1926

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Highway, Tennessee, State Dept. Highway & Pub. Wks. plans to expend $15,000,000 for roads and bridges.

Club, Chicago, Ill., Midland Club having plans prepared, $5,000,000.

Gas Pipe Line, Texas, Mid-Continent Oil & Gas Co. making plans, $4,600,000.

Reservoir, Cleveland, O., city plans 80 m.g. reservoir, $3,500,000.

Apartment, Miami, Fla., Davenport & Rich Investment Co. had plans prepared, $3,000,000.

Power plant, Bellows Falls, Vt., New England Power Co. having preliminary plans, $3,000,000.

Pipe line, Texas, Magnolia Petroleum Co. making plans for 350 mi. 8 in. pipe line, $3,000,000.

Sewer system, Seattle, Wash., plans bond election for sewers, $2,125,000.

Box and paper mill, Glendale, N. Y., Pequot Mfg. Co. plans 8 steel buildings, $2,000,000.

Office and Warehouse, Somerville, Mass., First National Store, Inc., having preliminary plans prepared, $2,000,000.

Cement plant, Cleveland, O., Universal Portland Cement Co. plans cement plant, $2,000,000.

Theatre and office, Detroit, Mich., W. Fox Film Corp. having plans prepared, $2,000,000.

Coliseum, Peoria, Ill., city plans bond election, $2,000,000.

Viaduct, Baltimore, Md., Baltimore & Ohio R.R. making plans for viaduct, $1,500,000.

Bids Wanted On Big Jobs

Bank and office, Washington, D. C., Coolidge, Shepley, Bulfinch & Abbott, archts., taking bids, $2,000,000.

Hospital, Newark N. J., Beth Israel Hospital soon takes bids, $2,000,000.

Apartment, Chicago, Ill., Hooper & Janusch, archts., Feb. 15, $1,750,000.

Large Contracts Let During Week

Office, New York, N. Y., Bricken Constr. Corp. by separate contracts, $10,000,000.

Subway, New York, N. Y., Bd. Transportation to Heyman & Goodman, Co., Inc., $6,641,678.

Office, San Francisco, Calif., Hunter, Dulin & Co. to Lindgren-Swinerton, Inc., $3,000,000.

Office and loft, Brooklyn, N. Y., Bush Terminal Co. to Turner Constr. Co., $2,000,000.

Plant, Chester, Pa., Ford Motor Co., to Rust Eng. Co., $2,000,000.

Apartment, Philadelphia, Pa., Parkway Apartment Corp. to B. Bornstein, $1,750,000.

Office, Philadelphia, Pa., Fidelity Mutual Life Ins. Co. to Turner Constr. Co., $1,500,000.

PROPOSALS

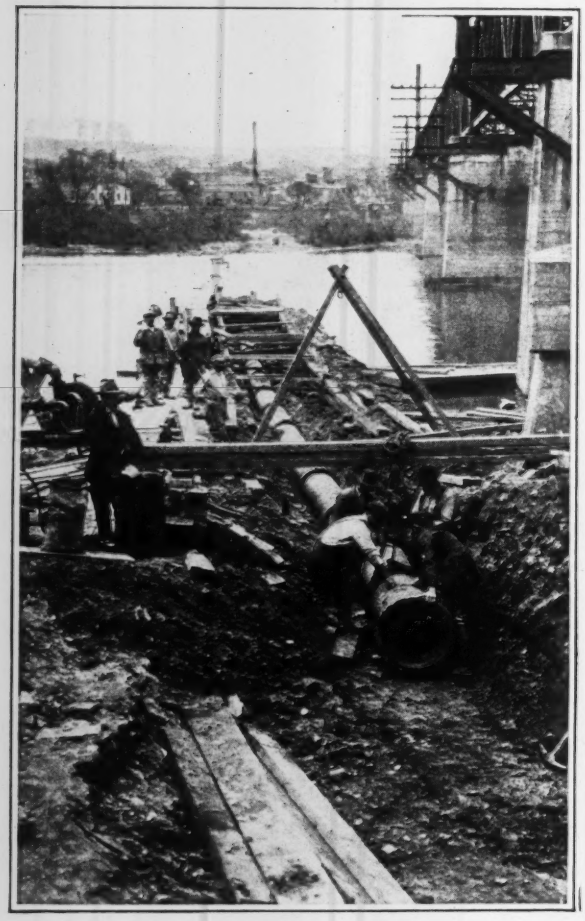
For Proposals Advertised
see pages 155-159
Advertising Section

Bids Close		See Eng. News-Record
	WATERWORKS	
Feb. 5	Wayland, Mass.	Jan. 28
Feb. 5	Cleveland, O.	Feb. 4
Feb. 8	Springfield, Mass.	Jan. 21
Feb. 8	Mansfield, La.	Feb. 4
Feb. 9	Tallahassee, Fla.	Jan. 21
	Adv. Jan. 21 to Feb. 4.	
Feb. 9	Moss Point, Miss.	Jan. 28
Feb. 9	Ft. Collins, Col.	Feb. 4
Feb. 9	St. Paul, Minn.	Feb. 4
Feb. 9	Milwaukee, Wis.	Feb. 4
Feb. 10	Anderson, Ind.	Jan. 21
Feb. 10	Chicago, Ill.	Feb. 4
Feb. 10	Kenosha, Wis.	Feb. 4
Feb. 10	Milwaukee, Wis.	Feb. 4
Feb. 11	Salisbury, Md.	Jan. 21
	Adv. Jan. 21 to Feb. 4.	
Feb. 11	Port Arthur, Tex.	Jan. 21
Feb. 11	Milwaukee, Wis.	Feb. 4
Feb. 11	Cleveland, O.	Feb. 4
Feb. 12	Mount Shasta (mail Weed), Calif.	Jan. 28
Feb. 12	Wauwatosa, Wis.	Feb. 4
Feb. 15	Ohiowa, Neb.	Jan. 28
Feb. 15	Wanamingo, Minn.	Feb. 4
Feb. 16	Knoxville, Tenn.	Jan. 21
Feb. 16	St. Louis, Mo.	Jan. 21
Feb. 18	Lock Haven, Pa.	Jan. 28
Feb. 24	Willard, N. Y.	Jan. 21
Feb. 25	Potsdam, N. Y.	Feb. 4
	Adv. Jan. 28 and Feb. 4.	
Mar. 1	Wenatchee, Wash.	Feb. 4
Mar. 3	Greenville, Tex.	Feb. 4
	Adv. Feb. 4.	
	SEWERS	
Feb. 8	Quakertown, Pa.	Jan. 21
Feb. 8	Spring Lake, N. J.	Jan. 28
Feb. 9	Toledo, O.	Jan. 21
Feb. 9	St. George, N. Y.	Feb. 4
Feb. 9	Green Bay, Wis.	Feb. 4
Feb. 10	Cleveland, O.	Feb. 4
Feb. 11	Chicago, Ill.	Feb. 4
Feb. 11	Port Arthur, Tex.	Feb. 4
Feb. 12	Wauwatosa, Wis.	Feb. 4
Feb. 13	Milwaukee, Wis.	Feb. 4
Feb. 16	St. Louis, Mo.	Jan. 28
Feb. 16	Charlotte, N. C.	Feb. 4
	Adv. Feb. 4.	
Feb. 17	Grand Rapids, Mich.	Jan. 28
	Adv. Jan. 28 and Feb. 4.	
Feb. 26	Louisville, Ky.	Feb. 4
	Adv. Feb. 4.	
Mar. 1	Clayton, Mo.	Jan. 28
Mar. 2	Jacksonville Beach, Fla.	Feb. 4
	Adv. Feb. 4.	
Mar. 10	Waco, Tex.	Jan. 7
Mar. 15	Waco, Tex.	Jan. 21
	BRIDGES	
Feb. 8	Pennsylvania	Jan. 21
Feb. 8	North Carolina	Feb. 4
Feb. 10	Alabama	Jan. 21
Feb. 10	Phila., Pa.	Feb. 4
Feb. 15	London, Ont.	Jan. 28
Feb. 15	Oakland, Calif.	Feb. 4
Feb. 16	Louisiana	Jan. 21
Feb. 16	Washington	Jan. 28
Feb. 16	Indiana	Feb. 4
Feb. 17	Michigan	Feb. 4
Feb. 19	Dayton, O	Feb. 4
Mar. 1	Key West, Fla.	Jan. 21
	Adv. Jan. 21 to Feb. 4.	
	DAMS	
Feb. 16	Concord, N. C.	Feb. 4
Mar. 15	Los Angeles, Calif.	Jan. 28
	Adv. Jan. 28 and Feb. 4.	
Mar. 23	Wellington, New Zealand	Jan. 21
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES RIVER AND HARBOR	
Feb. 8	Allenhurst, N. J.	Jan. 14
Feb. 10	Stuart, Fla.	Jan. 14
	Adv. Jan. 14 to Feb. 4.	
Feb. 10	Oskaloosa, Ia.	Jan. 28
Feb. 10	Fort Pierce, Fla.	Feb. 4
	Adv. Feb. 4.	
Feb. 10	Cleveland, O.	Feb. 4
Feb. 18	Mobile, Ala.	Jan. 21
Feb. 18	Los Angeles, Calif.	Jan. 28
Feb. 18	St. Augustine, Fla.	Jan. 28
	Adv. Jan. 28 and Feb. 4.	
	STREETS AND ROADS	
Feb. 5	Pennsylvania	Dec. 31
Feb. 6	Pennsylvania	Dec. 31
Feb. 8	Kentucky	Jan. 7
Feb. 8	Mobile, Ala.	Jan. 21
Feb. 8	Akron, O.	Jan. 28
Feb. 8	Hamilton, Mo.	Jan. 28
Feb. 8	North Carolina	Jan. 28
Feb. 8	Plymouth, Ind.	Feb. 4
Feb. 8	Auburn, Ind.	Feb. 4
Feb. 8	Decatur, Ind.	Feb. 4
Feb. 8	Terre Haute, Ind.	Feb. 4
Feb. 8	Naperville, Ill.	Feb. 4
Feb. 9	Minnesota	Jan. 21
Feb. 9	Louisiana	Jan. 21
Feb. 9	Minnesota	Jan. 14
Feb. 9	Clarksburg, W. Va.	Jan. 28
Feb. 9	Battle Creek, Ia.	Jan. 28
Feb. 9	Wendell, N. C.	Feb. 4
Feb. 9	Omaha, Neb.	Feb. 4
Feb. 9	San Angelo, Tex.	Feb. 4
Feb. 10	Belvidere, N. J.	Jan. 21
	Adv. Jan. 21 to Feb. 4.	
Feb. 10	Alabama	Jan. 21
Feb. 10	Florida	Jan. 28
Feb. 10	Santa Rosa, Calif.	Jan. 28
Feb. 10	Wilson, N. C.	Feb. 4
	Adv. Feb. 4.	
Feb. 10	La Crosse, Wis.	Feb. 4
Feb. 11	Magnolia, Miss.	Jan. 28
Feb. 11	Siloam Springs, Ark.	Jan. 28
Feb. 11	Duluth, Minn.	Feb. 4
Feb. 15	Anderson, Ind.	Jan. 21
Feb. 15	New Jersey	Jan. 28
	Adv. Jan. 28 and Feb. 4.	
Feb. 15	Birmingham, Ala.	Feb. 4
Feb. 15	Groesbeck, Tex.	Feb. 4
Feb. 15	San Diego, Calif.	Feb. 4
Feb. 16	St. Louis, Mo.	Jan. 21
Feb. 16	Washington	Jan. 28
Feb. 16	Rushville, Ind.	Jan. 28
Feb. 16	Virginia	Feb. 4
Feb. 16	Charlotte, N. C.	Feb. 4
Feb. 16	South Carolina	Feb. 4
Feb. 15	Charleston, W. Va.	Feb. 4
Feb. 16	Milton, W. Va.	Feb. 4
Feb. 18	Conway, S. C.	Feb. 4
	Adv. Feb. 4.	
Feb. 18	Louisiana	Feb. 4
Feb. 19	Pennsylvania	Jan. 14
Feb. 19	Dunn, N. C.	Feb. 4
Feb. 19	Hartford City, Ind.	Feb. 4
Feb. 20	Pennsylvania	Jan. 14
Feb. 22	Ontario	Jan. 28
Feb. 22	Georgetown, Tex.	Feb. 4
Feb. 23	McPherson, Kan.	Jan. 28
Feb. 23	Louisiana	Jan. 28
Feb. 23	Peekskill, N. Y.	Feb. 4
	Adv. Feb. 4.	
Feb. 23	Louisiana	Feb. 4
Feb. 24	Nebraska	Feb. 4
Feb. 25	Kenosha, Wis.	Jan. 14
Feb. 25	Nebraska	Feb. 4
Feb. 26	Kittanning, Pa.	Jan. 28
	Adv. Jan. 28 to Feb. 4.	
Feb. 26	Nebraska	Feb. 4
Feb. 28	Indiana	Feb. 4
Mar. 2	Pennsylvania	Feb. 4
	Adv. Feb. 4.	
Mar. 2	Louisiana	Feb. 4
Mar. 2	Chilton, Wis.	Jan. 28
	Adv. Feb. 4.	

See proposal advertisements on page 155, Advertising Section.

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office



Laying 20-in. c.i. bell and spigot water main across Schuylkill River with LEADITE joints.

Speed—Pipe Laying

Thousands of miles of cast iron water mains have been laid with LEADITE by large cities, towns, villages, railroads, mines, and industrial plants.

These pipe lines are laid under paved streets, under and over bridges, under railroad tracks, across streams, thru open country, in filter galleries—high and low pressures—under all conditions of water works construction.

This is the way some LEADITE users lay pipe:

1710 ft. 6 in. pipe laid in one day.
1665 ft. 6 in. pipe laid in 7½ hrs. with 6 men.
91 lengths 20 in. pipe laid in one day.
15 to 19 lengths 48 in. pipe laid in one day—laid one length in 7 minutes.
3860 ft. 6 in. and 8 in. pipe laid in 9 hrs. with 2 gangs.

You can do this.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%.

LEADITE is the pioneer Self-Caulking material for c.i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids Close — See Eng. News-Record

BUILDINGS—INDUSTRIAL

Feb. 5 Newark, N. J. .....Feb. 4
Feb. 6 Chicago, Ill. .....Feb. 4
Feb. 16 Iowa City, Ia. .....Feb. 4
Feb. 18 Gallipolis, O. .....Feb. 4
Mar. 1 Chicago, Ill. .....Jan. 14

BUILDINGS—COMMERCIAL

Feb. 8 Trenton, N. J. .....Jan. 21
Feb. 8 Omaha, Neb. .....Jan. 28
Feb. 8 Fond du Lac, Wis. .....Feb. 4
Feb. 8 Green Bay, Wis. .....Feb. 4
Feb. 9 Phila., Pa. .....Feb. 4
Feb. 13 Cleveland, O. .....Jan. 28
Feb. 15 Regina, Sask. .....Jan. 28
Feb. 15 Wash., D. C. .....Feb. 4
Feb. 16 St. Louis, Mo. .....Jan. 21
Feb. 17 Omaha, Neb. .....Feb. 4
Feb. 20 New Orleans, La. .....Jan. 21
Feb. 27 Bettendorf, Ia. .....Feb. 4
Mar. 1 Duluth, Minn. .....Jan. 7
Mar. 1 Williamsport, Pa. .....Feb. 4
Mar. 1 Pensacola, Fla. .....Feb. 4
Mar. 4 West Haverstraw, N. Y. ...Jan. 21
Apr. 1 Moline, Ill. .....Jan. 14
Apr. 1 Youngstown, O. .....Dec. 31

BUILDINGS—EDUCATIONAL, RELIGIOUS

Feb. 5 Norwood, Mass. .....Jan. 28
Feb. 5 Ardmore, Pa. .....Feb. 4
Feb. 6 Jersey City, N. J. .....Feb. 4
Feb. 9 Edina (Minneapolis, P. O.), Minn. .....Feb. 4
Feb. 10 Los Angeles, Calif. .....Feb. 4
Feb. 12 New Orleans, La. .....Jan. 21
Feb. 13 Parma (Cleveland P. O.), O. .....Feb. 4
Feb. 15 Johnstown, Pa. .....Feb. 4
Feb. 16 Wellsville, N. Y. .....Jan. 21
Feb. 18 Williamsport, Pa. .....Feb. 4
Feb. 19 Raymond, Miss. .....Feb. 4
Feb. 19 Wash., D. C. .....Feb. 4
Feb. 19 Paulsboro, N. J. .....Feb. 4
Feb. 22 Ferndale (br. Detroit), Mich. .....Jan. 21
Feb. 23 Beloit, Wis. .....Jan. 28
Feb. 23 Marshfield, Wis. .....Feb. 4
Feb. 24 Williamsport, Pa. .....Jan. 7
Feb. 27 Duluth, Minn. .....Dec. 17
Mar. 1 Newberry, Mich. .....Jan. 28
Mar. 3 Baton Rouge, La. .....Jan. 21
Mar. 15 Lewistown, Pa. .....Jan. 21

FEDERAL GOVERNMENT WORK

Feb. 5 Cement—Wash., D. C. ....Jan. 28
Feb. 6 Storehouse—Jacksonville, Fla. .....Jan. 14
Adv. Jan. 14 to Feb. 4.
Feb. 8 Beartrap Leaves—Louisville, Ky. .....Feb. 4
Adv. Jan. 28 and Feb. 4.
Feb. 10 Radio Tower—Eureka, Calif. .....Jan. 14
Feb. 10 Additions — Cheyenne, Wyo. .....Jan. 28
Feb. 10 Fuel Storage—Pensacola, Fla. .....Jan. 28
Feb. 11 Metal Work—Louisville, Ky. .....Jan. 14
Adv. Jan. 14 to Feb. 4.
Feb. 15 Remodeling—Santa Rosa, Calif. .....Jan. 28
Feb. 16 Hull—St. Louis, Mo. .....Jan. 21
Adv. Jan. 21 to Feb. 4.
Feb. 16 Refrigeration Plant—Hot Springs, S. D. .....Jan. 28
Feb. 16 Post Office—Troy, N. Y. ...Jan. 28
Feb. 18 Breakwater — Buffalo, N. Y. .....Jan. 28
Feb. 19 Radial Gates—Idaho and Oregon .....Jan. 14
Feb. 19 Mezzanine—Cincinnati, O. ..Feb. 4
Feb. 23 Valves, etc.—Nebraska and Wyoming .....Jan. 28
Feb. 23 Remodeling — Brownsville, Tex. .....Jan. 28
Feb. 23 Remodeling—Evanston, Ill. .....Feb. 4
Feb. 24 Administration—Pearl Harbor, T. H. .....Jan. 7
Feb. 24 Water Meter, etc.—San Diego, Calif. .....Jan. 28
Feb. 24 Pipe Masts—Panama, C. Z. Feb. 4
Feb. 25 Remodeling—Hutchinson, Kan. .....Feb. 4
Feb. 26 Dredging — New York, N. Y. .....Jan. 28
Adv. Jan. 28 and Feb. 4.
Mar. 1 Cruiser—Wash., D. C. ....Dec. 31
Mar. 1 Elevator—Wash., D. C. ....Feb. 4
Adv. Feb. 4.
Mar. 2 Water Tanks—Palo Alto, Calif. .....Feb. 4
Mar. 3 Hospital—Mare Island, Calif. .....Jan. 21
Mar. 3 Compass Station—Cape Lookout (mail Beaufort), N. C. .Feb. 4

Bids Close — See Eng. News-Record

Mar. 9 Outlet Pipes—Oregon .....Feb. 4
Adv. Feb. 4.
Mar. 15 Breakwater—Hilo, T. H. ...Jan. 21
Adv. Jan. 21 to Feb. 4.

UNCLASSIFIED

Feb. 5 Subway—New York, N. Y. .Jan. 7
Feb. 9 Wharf — Lake Charles, La. .....Jan. 21
Feb. 8 Gravel and Sand Washing Plant—Omra, Wis. .....Feb. 4
Feb. 9 Banana Unloaders—New Orleans, La. .....Feb. 4
Feb. 10 Foundation—Indianapolis, Ind. .....Jan. 7
Feb. 16 Circuit Breakers—Auckland, New Zealand .....Dec. 10
Feb. 24 Sanitary Work, etc.—Willard, N. Y. .....Feb. 4
Adv. Jan. 21 to Feb. 4.
Mar. 23 Panels, Filters, etc.—Wellington, N. Z. .....Jan. 21

MATERIALS

Feb. 5 Iron Castings—New Haven, Conn. .....Jan. 28
Feb. 9 Brick, Sewer Brick, Cement, etc.—St. Paul, Minn. .....Feb. 4
Feb. 10 Road Oil—Watertown, Wis. Feb. 4
Feb. 11 Pipe, etc. — Spokane, Wash. .....Feb. 4
Feb. 11 Road Oil—Marshfield, Wis. Feb. 4
Feb. 11 Paving Brack, etc.—Cleveland, O. .....Feb. 4
Feb. 16 Granite Curb—Charlotte, N. C. .....Feb. 4
Adv. Feb. 4.
Feb. 23 Asphalt, etc.—Ontario.....Feb. 4

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Conn., New Britain—Plans 7,800 ft. 12 in. mains in East St. $43,000. J. D. Williams, city engr.

Conn., New Britain — Bd. Water Comn. plans 420 ft. 16 in. main in Monroe St., 7,260 ft. 12 in. mains in Newington Ave., Ellis, East Main and Stanley Sts. $45,000. J. D. Williams, city engr.

Fla., Brookfield—Election Feb. 8, $78,000 bonds, waterworks. F. S. Parrigan, Brookfield, engr.

Ala., Huntsville — Plans reservoir on Cedar Hill. $250,000.

Ala., Opelika—Soon takes bids improving Spring Villa property for additional water supply, near here. $225,000 bonds sold. Noted Oct. 15.

O., Cleveland — City purchased site and plans during 1927, 80 m.g. reservoir on Wooster Pike near Snow Rd. $3,500,000. L. A. Quayle, City Hall, engr.

Mich., Detroit—Bd. Water Comrs., plans extending 1,280 ft. c.i. mains in Warren Ave., 1,285 ft. Patton Ave., 1,300 ft. Western Dr., 685 ft. Plymouth Rd. and 1,485 ft. Thatcher Ave., all foregoing 8 in.; 700 ft. 12 in. main in Livernois Ave.; 700 ft. Monica Ave., 2,650 ft. Minnock Ave., 700 ft. Stoepel Ave., 700 ft. Wark Ave., 1,275 ft. Pershing Ave., 2,580 ft. Tucker Ave., and 2,565 ft. Sierra Ave., all foregoing 6 in. G. H. Fenkell, 176 East Jefferson Ave., genl. mgr.

Ill., Decatur—Plans 2 mi. 6 in. c.i. mains, fire hydrants, valves, extension valve boxes, fittings, etc., in Lake Shore Dr., Dickinson Pl., Indana Court, Cantrell, 5th, 6th and 7th Sts., Roosevelt, Lincoln, Cleveland, Dickinson, Lakeview Aves., $20,000; also 12 in. main, etc., from Colfax and Marion Sts. to Hilton, Riverside and East Jasper Sts., $10,000 . P. O'Brien, City Hall, engr.

Ill., Hillsboro — Election soon $35,000 bonds, filtration plant north of here. B. White, city comr.

Ill., Harvard—City Council plans to purchase new pump for waterworks. $2,000. H. Schultz, city engr.

Minn., Jeffers—Making plans complete waterworks. $20,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, Ia., engrs.

Minn., St. Paul—G. J. Ries, aud. Ramsey Co., rejected bids Jan. 18, well at Lake Gervais. Noted Jan. 7.

Kan., Laurence — Soon takes bids improving waterworks, incl. new intake and flow line. Kiersted & Stringfellow, 614 Interstate Bldg., Kansas City, Mo., engrs.

Kan., Toronto — Voted $40,000 bonds, waterworks. F. E. Devlin, Bitting Bldg., Wichita, engr.

Mo., Marshfield — Voted $55,000 bonds, waterworks and distribution system. Gantt-Baker Co., 1116 West Main St., Oklahoma City, Okla., engrs. Noted Nov. 26.

Ark., De Witt—City Comrs. made preliminary plans waterworks in new district being organized. $20,000. Engineer not selected.

Tex., Ft. Worth—Making plans extending watermains and sewers in North Ft. Worth, Arlington, Riverside. Work will probably be done by day labor. D. L. Lewis, city engr.

Tex., Rotan—Voted $175,000 bonds, complete waterworks. Engineer not announced.

Tex., San Antonio—San Antonio Water Supply Co., 306 Market St., making preliminary plans waterworks, incl. deep artesian well. Private plans.

Okla., Earlsboro — Making preliminary plans new waterworks. $25,000. W. G. Stone, mayor. Engineer not selected.

Wash., White Salmon — Making plans pumping and filter or gravity system from Buck creek. $80,000. F. Allen, 485 East 42nd St. N., Portland, Ore., engr.

Calif., Berkeley—Bd. Educ. plans 50,000 gal. r.w. tank; 2-stage centrifugal pump, one 3/5 hp. water tube boiler, one auxiliary vacuum pump, piping, burner, etc., for high school. $16,000.

Calif., La Mesa—La Mesa, Lemon Grove and Spring Valley Irrigation Dist. making plans distributing mains, incl. 22½ mi. 6- to 22-in. diam. riveted steel pipe, several auxiliary pumping plants and reservoirs, and approximately 2 mi. 42 in. riveted steel syphon. T. H. King, 920 8th St., San Diego, engr.

Calif., Ontario—Plans to purchase pump with capacity between 100 and 150 in. or more from 1,000 to 1,500 gal. water per min. O. S. Roen, city serv. mgr. Noted Dec. 24.

Calif., Ramona—Ramona Irrigation Dist. making plans 6½ mi. riveted steel pipe line, also pumping plants and reservoirs. To exceed $85,000. T. H. King, 920 8th St., San Diego, engr.

Calif., Shafter — Plans election $18,000 bonds, waterworks.

Que., Quebec — Election Feb. 5, $90,000 bonds extending waterworks and sewers in various streets. W. D. Baillarge, engr.

BIDS DESIRED

N. Y., Potsdam — Feb. 25, by Municipal Bd., C. E. Haywood, chn., 4 rein.-con. mechanical filters, 2 m.g. per day total capacity with clear well, two 200 hp. hydro-electric units joined to filter plant, etc. Bogart & Pohl, 30 Church St., New York City, engrs.; adv. E. N.-R. Feb. 4.

N. J., Bound Brook — See "Contracts Awarded."

N. C., Asheville—Feb. 4, by City Comrs., 7,700 tons, more or less, c.i. pipe, and 20 tons, more or less, c.i. specials, f.o.b. Swannanoa, also constructing 7,000 ft., more or less, temporary piers and 48,000 ft., more or less, 24 in. permanent pipe line. C. E. Waddel & Co., Jackson Bldg., engrs. Noted Sept. 24.

La., Mansfield—Feb. 9, by E. O. Huson, city clk., extending 3,920 ft. 6 in. and 175 ft. 8 in. c.i. mains, etc., in various streets. J. S. Ament, city engr.

O., Cleveland—Feb. 5, by H. Wright, dir. Public Utilities, structural steel superstructure 1 story, 65 x 110 ft. pumping station. Total $500,000. H. Kregelius, 604 City Hall, engr. Noted Dec. 24.

O., Cleveland—Feb. 5, by City, c.i. pipes, specials, fittings, valves and motor controls. $60,000.

O., Cleveland — Feb. 11, by City, disk water meters and lead pipe.

Ill., Chicago—Feb. 10, by City, Room 406, City Hall, 1,800,000 common, 350,000 standard glazed brick and 13,000 Bull Nosed glazed brick and 195,000 face brick for Western Ave. Pumping Station, 49th St. and Western Ave. A. A. Sprague, city comr.

Wis., Kenosha—Feb. 10, by C. M. Osborn, city clk., 900 each ⅝ in. and 6 each 2 in. corporation and curb cocks, sixty-two ⅝-in., six 1.5 in. and six ¾ in. unions, 20 tons each, ⅝ in. extra strong lead pipe and pig lead, one thousand to two thousand ⅝ in. meters and connections, etc. for Water Dept.

Wis., Wauwatosa—Feb. 12, by Bd. Pub. Wks., A. V. Brigham, secy., boring 1

See proposal advertisements on page 155, Advertising Section.

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Concrete for Permanence

Waterworks (Continued)

artesian well 1,000 ft. to 1,700 ft. more or less in depth. To exceed $15,000. J. E. Lowther, City Hall, engr.

Minn., St. Paul—Feb. 9, by A. E. Eggert, city purch. agt., seventy-five 5 in. single steamer valves, compressor type fire hydrants, two thousand six hundred and forty 12 ft. lengths 6 in. c.i. pipe, 1,125 disc type cold water meters, one thousand six hundred each ¾ in. brass corporation curb stops, also 200 bbl. Portland cement, for Water Dept.

Minn., Wanamingo—Feb. 15, by W. E. Buell & Co., engrs., 205 Davidson Bldg., Sioux City, Ia., waterworks, incl. 4 and 6 in. mains, also tank and tower, here, for City. $20,000. Noted Nov. 26.

Tex., Greenville—Mar. 3, by City, 3 m.g. filtration or purification plant. M. C. Hale, city clk.; adv. E. N.-R. Feb. 4.

Tex., Port Arthur—Feb. 11, by J. O. Herpin, city engr., 11,400 ft. 18 in. Class "A" B. & S. c.i. pipe, two 18 in. joints, three 18 in. valves, etc., for waterworks.

Colo., Ft. Collins—Feb. 9, at office City Clerk, City Hall, mechanical filter plant containing 6 filter units, 3,716 cu.yd. excav., 1,548 cu.yd. plain and rein.-con. 170,148 lb. reinforcing, 4,357 ft. 20- to 36-in. pipe in place, etc., $219,753; 52,399 ft. 20 and 24 in. and 11,656 ft. 27 in. pipe, etc., $502,536; also laying 63,644 ft. 4- to 24 in. c.i. mains in distribution system, $42,799; one 7,500,000 gal. reservoir, 521 cu.yd. formed concrete, 1,708 ft. 3- to 24-in. c.i. pipe, etc., $72,842. F. R. Montgomery, comr. Safety and ex-office mayor.

Wash., Wenatchee — Mar. 1, by City Comn., 12 m.g. steel and concrete filtration plant. $225,00. Shibley & Bovard, Securities Bldg., Seattle, engrs. Noted Jan. 28.

BIDS RECEIVED

Minn., Minneapolis — F. S. Gram, city purch. agt., Jan. 18, from Feils Brass & Machine Wks., 2450 West 48th Pl., Chicago, Ill., hydrants at $72.50 each, valves $22.50 each for 6 in., $35.25 for 8 in., and $69.50 for 12 in. Noted Jan. 14.

CONTRACTS AWARDED

N. J., Bound Brook—Bound Brook Water Co., M. Bush, mgr., will build 150,000 gal. wash water tank enclosed in 2 story steel building, by day labor. $16,000. C. Potts, 30 Church St., New York City, engr.

O., Norwalk—For 36 x 72 ft. filtration plant and six 70 x 250 ft. rein.-con. tanks, to H. C. Felver & Co., 7016 Euclid Ave., Cleveland. Engrs. est. $130,000.

Minn., St. Paul—G. J. Ries, aud. Ramsey Co., constructing tubular well at Lake Josephine, to McCarthy Well Co., Wabash and Eustis Sts., $5,100. Noted Jan. 7.

Sewers

PROPOSED WORK

N. Y., Edgemere (mail Far Rockaway) —M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Long Island City, soon takes bids sewer from Beach 19th to Beach 36th Sts., here. $480,000.

N. Y., Williamsville — Soon takes bids sewerage system. To exceed $75,000. W. F. Sheehan, 5488 Main St., engr.

N. J., Camden—Making plans (1st unit) sewage disposal plant. $1,000,000. W. D. Vosbury, Market St., engr. Noted May 21.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, rejected bids Jan. 20, sewer and pumping station for South Phila. Impvt. south of Packard Ave. and west of Broad St. G. H. Biles, dir. Noted Jan. 28.

S. C., Conway—See "Streets and Roads."

Fla., Brookfield—Election Feb. 8, $90,000 bonds, sanitary sewers in various streets. S. Parrigan, Brookfield, engr.

Ia., Audubon—Soon takes bids sewage disposal plant, Imhoff tanks and 12,000 ft. 18 in. outlet sewers in various streets. $60,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs. Noted Oct. 29.

Kan., Herington — See "Streets and Roads."

Mo., Kansas City—Making plans sanitary sewerage system along east side of Blue River. $275,000-$300,000. Black & Veatch, 700 Mutual Bldg., engrs.

Okla., Chickasha—Voted $40,000 bonds, extending storm sewers in various streets. R. O. Bradley, Chickasha, engr. Noted Dec. 24.

Okla., Marland—Town Council making preliminary plans disposal plant and 4 mi. outfall sewers in all streets. $25,000. Engineer not announced.

Okla., Prague—Made preliminary plans 6 mi. outfall sewerage system, and disposal plant. $35,000 bond election in spring. H. W. Hartman, mayor. Engineer not announced.

Okla., Tulsa—Soon takes bids sewers in Dist. 240, Braden Dist. $50,000. C. Schultz, City Hall, engr.

Wash., Seattle—Election Mar. 9, $2,125,000 bonds, intercepting sewerage system carrying all sewage now dumped into Lake Washington into Puget Sound. J. D. Blackwell, city engr. Noted Nov. 12.

Calif., Long Beach — Made plans new sewer pumping plant in east section to take care sewage in Alamitos Bay Dist. $25,000 available. R. D. Van Alstine, city engr.

Calif., Oakland—Made plans 5,086 lin.ft. 10- to 24-in. sewer, etc., in Webster St. between 12th and 20th Sts. W. W. Harmon, city engr.

Que., Quebec—See "Waterworks."

BIDS DESIRED

N. Y., St. George—Feb. 9, by J. A. Lynch, pres. Richmond Boro, Boro Hall, temporary sanitary sewers in Hylan Blvd. (Southside Ave.), 6th St., Mill Rd., Guyon and Adelaide Aves., all in New Dorp, Oakwood and vicinity. Former bids recalled. Noted Jan. 21.

N. C., Charlotte—Feb. 16, by Bd. Comrs., City Hall, sewers in various streets. E. Read, city clk.; adv. E. N.-R. Feb. 4.

Fla., Jacksonville Beach—Mar. 2, by City Comn., sewerage system. G. B. Hills Co., Jacksonville, engrs.; adv. E. N.-R. Feb. 4.

Ky., Louisville — Feb. 26, by Comrs. of Sewerage, Bd. Trade Bldg., 3rd and Main Sts., constructing Grinstead Dr. Sewer, Contr. 25. J. B. F. Breed, ch. engr.; adv. E. N.-R. Feb. 4.

O., Cleveland—Feb. 10, by City, sewers in Kinkelaar Rd., Firsby and Mohican Aves., West 145th and 146th Sts. To exceed $25,000. R. Hoffman, City Hall, engr.

Ill., Chicago—Feb. 11, by H. E. Wallace, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., North Side Sewage Treatment Works, Div. T, 295 lin.ft. 11 ft. effluent conduit, partly in open cut and tunnel, also transition section and outfall structure, etc., at Niles Center. M. Eller, chn.

Wis., Green Bay—Feb. 9, by W. L. Kerr, city clk., sanitary sewers in Hubbard St. (1) laying 402 lin.ft. 42 in. Class "A" water or 410 lin.ft. 42 in. lock joint c.i. pipe; 84 ft. 42 in. Class "B" or 76 ft. 42 in. lock joint c.i. pipe, 1,626 ft. 42 in. rein.-con. pipe, etc.; (2) 636 ft. 36 in. rein.-con. or d.s. vitr. pipe, etc.; (3) 297 ft. 36 in. rein.-con. or d.s. vitr. pipe, etc.; (4) 344 ft. 30 in. rein.-con. or d.s. vitr. pipe, etc. To exceed $25,000. A. E. Kringel, City Hall, engr.

Wis., Milwaukee — Feb. 13, by J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., two 2,500 g.p.m. motor driven float controlled centrifugal pumps, for Mud Creek low level sewerage booster station, Villard Ave. Noted Jan. 21.

Wis., Milwaukee—Feb. 9, 10 and 11, by Dept. Pub. Wks., storm sewers in Sects. 4, 5 and 6 of 26th St. $125,000 each section.

Wis., Wauwatosa—Feb. 12, by Bd. Pub. Wks., A. V. Brigham, secy., storm sewers in East North Ave. between 8th and Spring Aves., 730 ft. 42 in., 750 ft. 36 in., 330 ft. 24 in. and 600 ft. 21 in. rein.-con. pipe. Former contract rescinded. J. E. Lowther, city engr. Noted Jan. 28.

Tex., Dallas—City, c/o Secretary, taking bids 993 ft. 30 in. 260 ft. 27 in., 115 ft. 21 in. and 120 ft. 18 in. concrete pipe, etc., for storm sewers in Oak Cliff. $25,000.

BIDS RECEIVED

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, Jan. 27, from F. Berardi, 1913 Mifflin St., branch sewer in Beulah St. between Johnston and Bigler Sts. $5,676, L St. between Torresdale and Lycoming Sts. $21,108, 9th St. between Johnston and Bigler Sts. $5,971, and Smedley St. between 65th and 67th Aves. $6,511; from A. Di Sandro & Son, 3906 North 5th St., Boudinot St. between Roosevelt and Ashdale Sts., $10,771; from Leva Bros., 3851 North 10th St., Champlost Ave. between 9th and Marvine Sts., $20,562; from A. Mattia, 310 North 65th St., Folsom St. between 48th and 49th Sts., $4,102; from Higgins & Reilly, Real Estate Trust Bldg., 57th St. between Staddington and Nassau Sts. $15,223, and Percy St. between Johnston and Bigler Sts. $7,315; from Clifton Constr. Co., 131 East Berkley St., Clifton Heights, Hutchinson St. between Johnston and Bigler Sts. $5,520, also removing old and constructing new sewers in 11th, Warwick, Alder and Bigler Sts. $22,209; from A. Perna & Sons, 752 South 10th St., branch sewers in Kenmore St. between Lansdowne and Media Sts., $7,476; from E. F. Bennis, 825 East Washington Lane, 69th St. between Chester and Regents Sts., Regent St. between 68th and 69th Sts. $12,324, also Vernon St. between Chew and Boyer Sts. $8,170; from Vattieri & Pantarelli, 523 Rising Sun Ave., Spencer St. between 4th and 5th Sts., $6,943; from A. J. Henderson, 825 East Washington Lane, Wadsworth Rd. between Crittenden and Steton Sts., $5,506; from F. T. Buckins, 4050 Kensington Ave., inlet laterals, spurs, etc., in various streets, $41,050; from J. E. Robinson, 5231 Catharine St., test borings through soil and drift also in water through soil and drift and exclusive of water, $1,845. Noted Jan. 21.

Md., Baltimore — Bd. Awards, Jan. 27, 21,500 lin.ft. 24- to 60-in. rein.-con. pipe, from Lock Joint Pipe Co., 9 Rutledge Ave., Ampere, N. J., $57,110. Noted Jan. 21.

O., Akron—W. F. Peters, dir. Pub. Serv., Municipal Bldg., Jan. 28, sewage treatment plant at Botzum, from Walsh Constr. Co., 308 Euclid Ave. Bldg., Cleveland, $2,666,940. Noted Dec. 24.

Calif., Beverly Hills — Municipal Impvt. Dist., sewers in various streets, Contr. (1) 25,500 lin.ft. 8 and 10 in. (a) vitr. and (b) concrete pipe, 60 manholes, etc., Contr. (2) 17,900 lin.ft. 6 and 10 in. pipe, etc., from Cogo & Rados, 705 Bernard St., Los Angeles, (1a) $27,255 (1b) $26,229 (2a) $18,666 (2b) $17,995. Noted Nov. 26.

Calif., Brea—City Trustees, Jan. 20, from H. A. Dunkle, 1913 North Commonwealth Ave., Los Angeles, sewers in various streets, 593 ft. 18 in. pipe $2.40 per ft., 2,582 ft. 15 in. $1.80, 3,590 ft. 10 in. $1, 11,772 ft. 8 in. $0.90, 22,722 ft. 6 in. $0.80, etc., total approximately $53,000. Noted Jan. 7.

Calif., Fullerton—City Trustees, Jan. 19, Fullerton-La Habra outfall sewer, pipe system, from Stroud Bros., Bakersfield, $18,152; 2 mi. 16 in. rein.-con. pressure line, from G. W. Kemper, 163 South Marguerita St., Alhambra, $2.20 per lin.ft.; and pumping plant, from P. Barnett, Orange, $7,400 (complete). Noted Dec. 24.

CONTRACTS AWARDED

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, main sewer in Rowland Ave. between Tudor and Bleigh Sts., to J. Lombardi, Lincoln Bldg., $7,123; discharge pipes between Southwest Pumping Station and Eagle Creek, to J. J. McHugh, 1617 Race St., $7,070; and underground structure in Wheatsheaf Lane between Delaware Ave. and Delaware River, to G. F. Dobbin, 1020 South 47th St., $30,804. Grand total $44,997. Noted Jan. 28.

Ia., Earlham—For 25,175 ft. 8 and 10 in vitr. clay sewers, etc., in various streets, to E. L. Royer Constr. Co., Valley Junction, $24,124; disposal plant, to Repass Bros., Des Moines, $9,585.

Ore., Astoria—City Manager, 1,475 ft. 15- to 36-in. and 9,800 ft. 6- to 21-in. rein.-con. sewers in Bond St. and Taylor Ave., to J. D. Hanley, 709 Gasgo Bldg., Portland, $47,900. Engrs. est. $62,700. Noted Jan. 7.

Waste Disposal

PROPOSED WORK

Ill., Peoria — Plans election in April, $100,000 bonds, garbage incinerator and motorizing garbage equipment. W. E. Backes, City Hall, engr.

Bridges

PROPOSED WORK

Connecticut—State Hy. Dept., Hartford, plans bridge across Sasco River between Westport and Southport. To exceed $25,000. J. MacDonald, highway engr. R. G. Powell, dist. engr.

N. Y., Lackawanna (Ind. br. Buffalo) — Plans replacing 800 ft. steel truss bridge with rein.-con. structure, Ridge Rd. $500,000.

N. Y., North Tonawanda—Plans bridge over Barge Canal. To exceed $75,000. T. W. Barrally, North Tonawanda, engr.

Md., Baltimore—Baltimore & Ohio R.R. Co., Charles and Baltimore Sts., making plans rein.-con. viaduct over Hanover St. from Wells to Moale Sts. $1,500,000. H. A. Lane, ch. engr.

Ga., Ashburn—See "Streets and Roads."

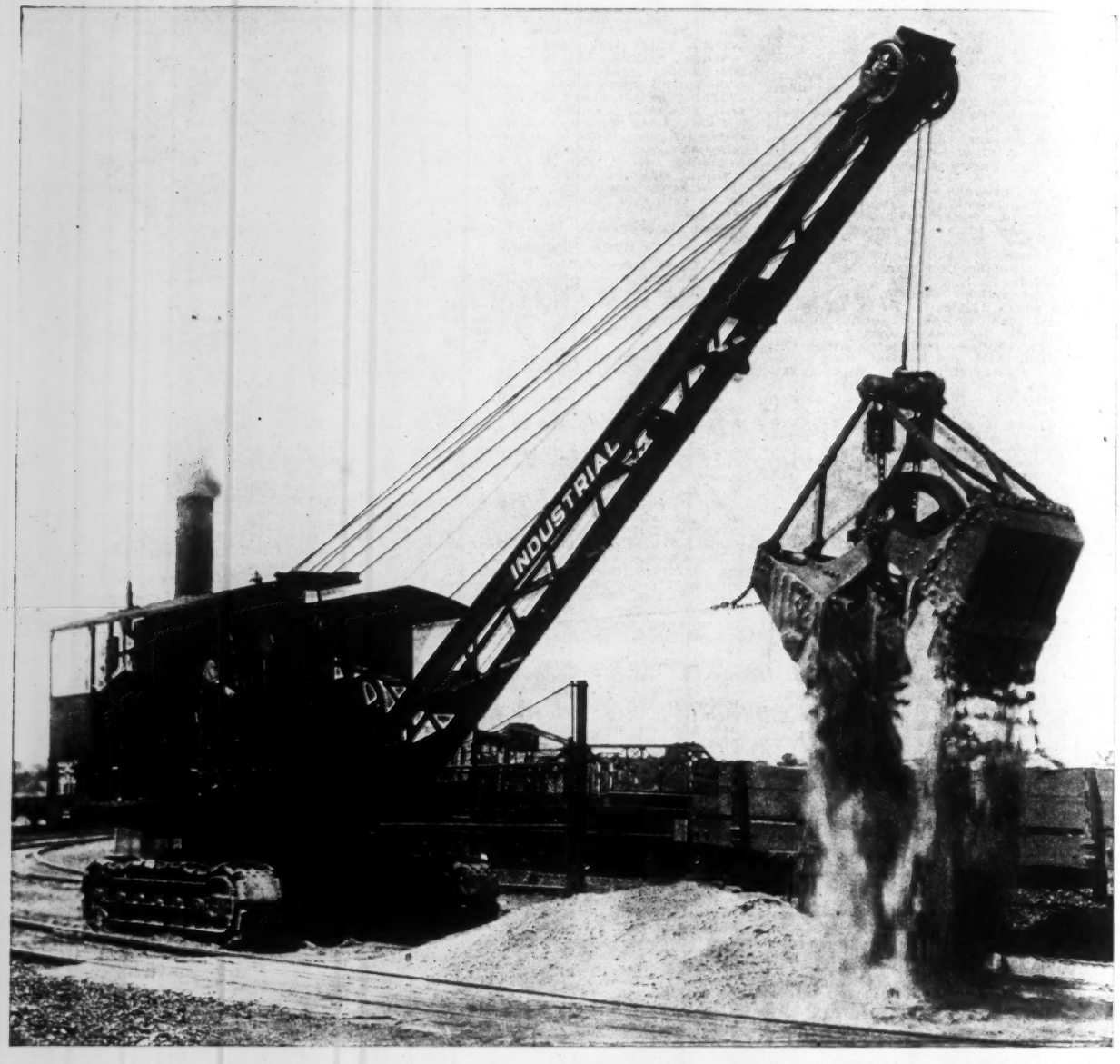
Fla., Ft. Myers — Lee Co. voted $100,000 bonds, bridge across Matanzas Pass. Noted Dec. 31 under "Streets and Roads."

Fla., Palatka—Putnam Co. election Feb. 16, $500,000 bonds, enlarging bridge over St. Johns River.

Miss., Waverly—See "Streets and Roads under Mississippi."

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about Feb. 27, 3 over 20 ft. span rein.-con. bridges, one over Crooked Creek, one over Cypress Creek

See proposal advertisements on page 155, Advertising Section.



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Bridges (Continued)

and other over Snake Creek, between Selmer and Adamsville, McNairy Co. C. N. Bass, acting comr.

Tennessee—See "Streets and Roads."

O., Dover—Comrs. Tuscarawas Co. (New Philadelphia) soon take bids bridge over Baltimore & Ohio R.R. tracks from west bank of Sugar Creek to 5th St., here. $200,000.

Minn., Staples—Todd Co. (Long Prairie), Cass Co. (Walker), and Wadena Co. (Wadena), plan concrete and steel bridge over Wing River about 4 mi. northeast of here. $26,400.

N. D., Minot—Making plans replacing concrete and steel bridge between Central St. and 1st Ave. S. E. $25,000. A. D. Hagenstein, city aud.

Texas—Crockett Co. (Ozona) and Pecos Co. (Ft. Stockton) making plans 200 ft. steel truss span bridge, 18 ft., across Pecos River. $200,000. Address W. P. Kemper, Austin, highway engr.

Texas—Washington Co. (Brenham) and Waller Co. (Hempstead) making plans 600 ft. steel span bridge with rein.-con. approaches across Brazos River, on Highway 20. $300,000. Address G. G. Wickline, 912 West 22nd St., Austin, engr.

Tex., Barstow—See "Streets and Roads."

Tex., Decatur—See "Streets and Roads."

Tex., Groveton—See "Streets and Roads."

Tex., Memphis—See "Streets and Roads."

Oklahoma—State Hy. Dept., Oklahoma City, making preliminary plans 4 span 660 ft. steel truss bridge on pile piers at Lone Wolf, Kiowa Co., $35,000; made surveys 58 span 1,160 ft. creosoted pile trestle bridge, at Keno, Woods Co., $30,000, and 3 span 116 ft. rein.-con. bridge on concrete piers at Turpin, Beaver Co. $25,000. J. M. Page, highway engr.

Nevada — State Hy. Dept., Carson City, making plans Wadsworth Bridge, steel, Washoe Co. $38,500. G. M. Borden, highway engr.

Wash., Chelan—See "Streets and Roads."

Que., Grand Mere — City and Provincial Government, Quebec, plan bridge over St. Maurice River. $200,000. I. E. Vallee, Quebec, engr. Noted Aug. 14, 1924.

BIDS DESIRED

Pa., Phila. — Feb. 10, by Bureau Engineering, Dept. Pub. Wks., new 60 x 60 ft. steel and rein.-con. bridge, under railroad tracks at Rising Sun Ave. $150,000.

Virginia—See "Streets and Roads."

North Carolina — Feb. 8, by State Hy. Dept., Raleigh, rein.-con. bridges and culverts on Project 303, Bladen Co. $32,600, Project 838, Henderson Co. $28,800, Project 772, Watauga Co. $27,500, Project 664, Richmond Co. $30,000, Project 635, Gaston Co. $96,000, Project 479, Wake Co. $59,000, Project 465, Person Co. $31,900, Project 240, Johnston Co. $125,000. C. M. Upham, Raleigh, engr. Noted Jan. 7.

O., Dayton — Feb. 19, by G. F. Baker, dir. Pub. Serv., two 95 ft. span half thru steel girder bridge encased in concrete, 24 ft. roadway and two 7 ft. sidewalks over Wolf Creek at Williams St., 235 tons structural steel, 27 tons reinforcing, etc. $175,000. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs.

Indiana—Feb. 16, by J. D. Williams, dir. State Hy. Comn., Indianapolis, **(s.g. means steel girder, S.R. state road, s.t. steel truss, e.p.g. encased plate girder, r.c.a. rein.-con. arch, r.c.b. rein.-con. box, and r.c.s. rein.-con. slab)** 2 s.g. and 1 s.t. on S.R. 1-D, Scott Co.; 3 s.t. on S.R. 22-1, Crawford Co.; 2 s.t. on S.R. 22-K, Orange Co.; 4 r.c.a. on S.R. 10-K, Vigo Co.; 1 e.p.g. on S.R. 40-G, Scott Co.; 1 s.t. on S.R. 34-D, Fayette Co.; 1 s.t. on S.R. 12-1, Owen Co.; 1 s.t. on S.R. 25-C, LaGrange Co.; 3 r.c.g. on S.R. 31-E, Putnam Co.; and 2 r.c.s., 3 r.c.b. and 3 r.c.g. on S.R. 39-A, Marion Co.

Michigan—Feb. 17, by State Hy. Dept. at office comrs. Shiawassee Co., Corunna. Bridge File No. 761,306 S. R., two 65 ft. spans. G. A. Dillman, Lansing, engr.

Nebraska—See "Streets and Roads."

Tex., Eagle Pass — See "Contracts Awarded."

California—Feb. 15, by Supervs. Alameda Co. (Oakland) reconstructing steel bridge over San Antonio Estuary between Alameda and Oakland. To exceed $25,000. Noted Jan. 21 under "Oakland."

BIDS RECEIVED

O., Stillwater—Commissioners Tuscarawas Co. (New Philadelphia) bridge over Baltimore and Ohio R.R. tracks, here, from Dover Tank & Plate Co., Dover, $27,454. Engrs. est. $35,000.

Mich., Detroit—Wayne Co. Road Comn., 1103 Real Estate Exch., housing and enclosure walls for concrete and stone double leaf trunnion bridge over River Rouge, at Dix Ave., from G. P. Cullen, Inc., 2940 West Lake St., Chicago, Ill. **(A)** $23,405 **(B1)** $42,336 **(B2)** $41,715 **(B3)** $40,780. Noted Jan. 7.

Texas and Oklahoma—E. P. Walsh, aud. Wichita Co., Wichita Falls, Tex., and J. M. Page, state highway engr., Capitol Bldg., Oklahoma City, Okla., Jan. 18, bridge over Red River between Burkburnett, Tex., and Randlett, Okla., from Austin Bridge Co., 1813 Clarence St., Dallas, steel girder type, $239,842; from Davis-Pace Co., 1306½ Young St., Dallas, concrete, $243,874. Noted Dec. 24.

CONTRACTS AWARDED

N. H., Nashua—City, Dept. Pub. Wks., rebuilding old bridge, on West Main St., to Blakeslee Rollins Co., 6 Beacon St., Boston, Mass., $157,500. Engrs. est. $150,000.

North Carolina — State Hy. Comn., Raleigh, to Sanford & Brooks Co., Charlestown, S. C., rein.-con. bridge, known as "Proposition 1," over Bogue Sound, on Project 203, 342 cu.yd. Class AA concrete at $38 per cu.yd., 7,888 cu.yd. Class A concrete $27.50, 16,600 lin.ft. untreated timber piling $0.71, 7,300 lin.ft. creosoted timber piling $0.85, 1,091,240 lb. reinforcing $0.053, etc., total $504,076; to Roanoke Iron & Bridge Wks., Roanoke, Va., bridge known as "Proposition 2," over Bogue Sound Channel, on Project 203, 20 cu.yd. Class AA concrete $75, 346 cu.yd. Class A concrete $33, 400 sq.yd. creosoted block paving $4.60, 27,000 lb. reinforcing $0.05, 560,000 lb. structural steel $0.083, etc., total $138,-450, both in Carteret Co. Noted Nov. 26.

Fla., Fort Lauderdale—Broward Co., 100 ft. steel and concrete draw bridge, to Champion Bridge Co., Ft. Lauderdale, $100,000. Noted Dec. 31 under "Streets and Roads."

La., New Orleans—Pub. Belt R.R. Comn., Municipal Bldg., test borings for Mississippi River Bridge, 2 mi. above city limits, to Southern Deep Well Drilling Co., 429 Patterson St., Algiers, $44,400. Noted Dec. 31.

Mich., Dearborn—Village, 70 ft. concrete T-beam bridge over River Rouge, at Brady St., to L. W. Kinnear, Inc., 1524 Clairmount Ave., Detroit, $34,950. Noted Dec. 24.

Kan., Eureka—Greenwood Co., one 120 ft. arch and two 40 ft. deck girder, also two 16 ft. and two 18 ft. concrete slab spans, etc., on Federal Aid Project 322-H, to Yancey Constr. Co., Abilene, $40,717.

Kan., Oswego—Labette Co., two 120 ft. and one 140 ft. span through arch bridge with 20 ft. roadway, 107,074 lb. steel bars, 93,100 lb. structural steel, etc., also one 120 ft. span through arch rein.-con. bridge, 46,-338 lb. steel bars, 24,766 lb. reinforcing, etc., on Parsons-Pittsburg Rd., to Sharpe Bros., Eldorado, $73,125 and $26,397 respectively.

Tex., Eagle Pass — Texas & Eagle Coahuila Bridge Co. will build 400 ft. rein.-con. and steel bridge across Rio Grande River, by day labor. $200,000. Private plans. Noted June 18, under "Texas."

Arizona—W. C. Lefebvre, highway engr., Phoenix, 1,660 ft. steel bridge over Gila River 615 ft. below Gillespie Dam, on Federal Aid Project 64-B, to Lee Moor Constr. Co., Tucson, $292,167. Noted Dec. 24.

B. C., New Westminster — Provincial Govt., Victoria, timber on piles protection pier for draw span of Fraser River Bridge, to Nichson Constr. Co. Ltd., Georgia Viaduct, Vancouver, $100,000.

Dams

PROPOSED WORK

N. Y., Perrysburg—City of Buffalo, City Hall, plans additional dam, at J. N. Adam Memorial Hospital, here. $75,000. W. H. Mosher, 700 Main St., Buffalo, engr.

California—See "Unclassified."

Quebec—Water Running Comn., Montreal, plans concrete dam at Lake Mekinae, Champlain Co. $500,000. O. Leferne, Quebec, engr.

BIDS DESIRED

N. C., Concord—Feb. 16, by Bd. Water Comrs., earth and concrete impounding dam, 30,000 cu.yd. embankment, 8,000 cu. yd. excav., 4,500 sq.yd. rein.-con. pavement, 80 cu.yd. concrete walls, 450 lin.ft. 16 and 30 in. pipe lines, rein.-con. gate shaft, etc. $33,000. G. C. White & Co., Durham, engrs.

Railways

PROPOSED WORK

California—City and San Francisco Co., San Francisco, soon take bids extending railway in Judah St. between 31st and 41st Aves., San Francisco. $30,000. M. M. O'Shaughnessy, city engr.

British Columbia—British Columbia Electric Ry. Co., 425 Carrol St., Vancouver, plans double tracking street car lines with permanent concrete road bed. $200,000. Work will probably be done by own forces. A. C. Eddy, 425 Carrol St., engr.

BIDS DESIRED

Texas—See "Contracts Awarded."

CONTRACTS AWARDED

Texas — San Antonio, Medina Lake & Western R.R., W. L. Williams, pres., Box 435, San Antonio, will build 40 mi. railroad from San Antonio to Medina Lake. Work will be done by separate contracts.

Ontario—Spruce Falls Pulp & Paper Co., Kapuskasing, grubbing, tracking, laying, etc., for 60 mi. railroad from Kapuskasing Sta. on Canadian Natl. R.R. to Smoky Falls on Mattagami River, to Morrow & Beatty, Peterborough. Engrs. est. $1,500,000-$2,000,000.

Excavation, Drainage, Irrigation, Levees River and Harbor

PROPOSED WORK

Vt., Bellows Falls — See "Building—Industrial."

Fla., St. Petersburg — Election Feb. 9, $235,000 bonds, improving harbor, incl. dredging entrance to channel and turning basin to 27 ft.; also $86,000 bonds, dredging Bayboro Basin to 19 ft. mean low tide.

Mich., Belle Isle (mail Tobins Harbor)—Dept. Parks & Blvds., Marquette Bldg., Detroit, making preliminary surveys restoring canals, incl. dams, electrically operated pumps, etc., here. $25,000. J. A. Stringham, Detroit, research engr.

Ill., Springfield—Made plans constructing Lake Springfield, incl. large dam, submerging approximately 10,000 acres land, constructing scenic highway around proposed lake of 50 mi., bathing beaches, parks, etc. $1,500,000. W. Seeley, City Hall, engr.

Tex., Galveston — Galveston Wharf Co., c/o E. E. Gossrau, 2324 Ave. B plans rebuilding Piers 23, 24, 25 and 26, and wharves, rein.-con., recently destroyed by fire. $1,500,000. R. M. Sias, 2324 Ave. B, engr.

Okla., Pauls Valley—Rush Creek D. D. 3, Garvin Co., made preliminary plans draining and straightening Rush Creek from Pauls Valley to junction with Washita River, 5 mi. away. $45,000. A. Rennie, Pauls Valley, engr.

Quebec—Dept. Pub. Wks., Ottawa, plans dredging 105 mi. navigable channel in River St. Maurice from Grand Mere to La Tugue. $50,000. B. Grandmont, Three Rivers, engr.

BIDS DESIRED

Fla., Fort Pierce — Feb. 10 (extended date), by C. C. Burry, city aud.-clk., fill, sea-wall, bulkheads, sewer extensions and other appurtenances. W. A. Smith, mgr.; adv. E. N.-R. Feb. 4. Noted Dec. 24.

O., Cleveland—Feb. 10, by City, dredging Cuyahoga River, also under and around bridges. $75,000. R. Hoffman, City Hall, engr. Noted June 11.

BIDS RECEIVED

Calif., San Francisco — Core borings along and near line of Hetch Hetchy Aqueduct, Coast Range Division, from International Diamond Drill Co., Hobart Bldg., approximately $18,884. Noted Jan. 21.

CONTRACTS AWARDED

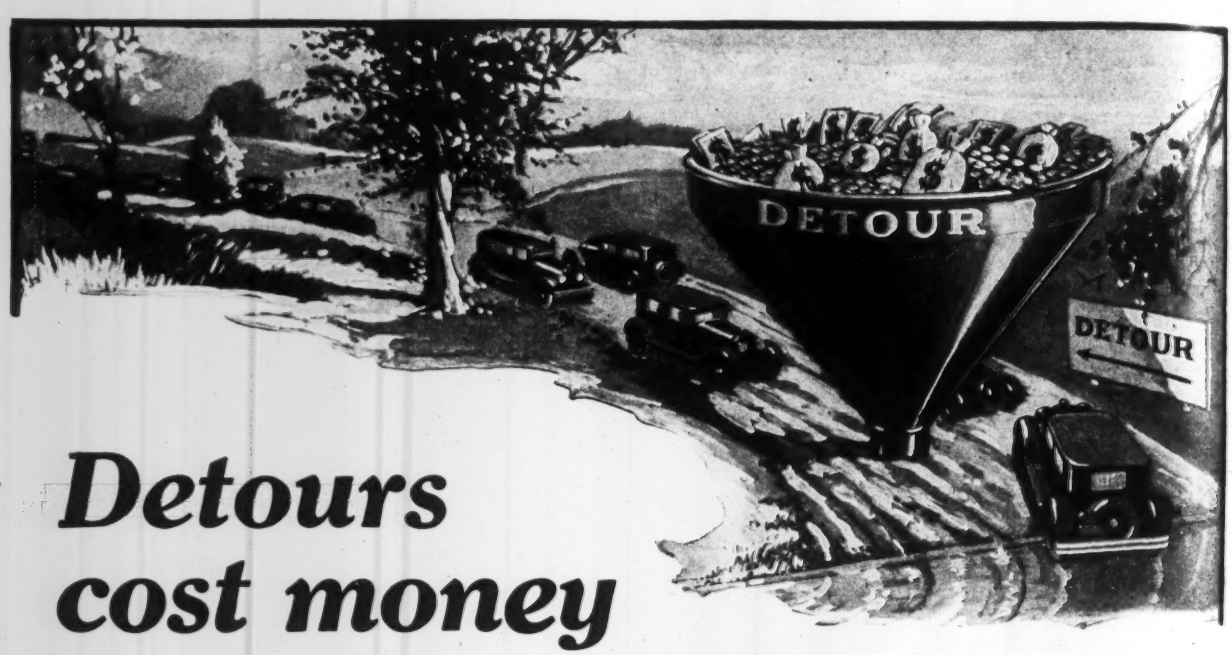
Ia., Cedar Rapids—City Council, improving river front Red Cedar River, incl. rein.-con. retaining walls, to Allied Contractors, Inc., 1803 Douglas St., Omaha, Neb., $99,-556. Noted Dec. 24 under "Unclassified."

Ia., Council Bluffs—City, approximately 125,000 cu.yd. channel change, etc., in Indian Creek, to Boyne Constr. Co., Council Bluffs.

Minn., Minneapolis—A. P. Erickson, aud. Hennepin Co., constructing County Ditch 40, pump house, to R. H. Wessel, 463 Cleveland Ave. N., St. Paul, $4,956; installing 3 pumps, to W. H. Ziegler Co., 619 Washington Ave. S., $6,424; 7,840 cu.yd. excav. and pump pit, to Mikelson Cement Products Co., Albert Lee, $17,996; 97,057 ft. 5- to 36-in. drain tile, etc., to Owatonna Cement Tile Co., Owatonna, $17,-590. Grand total $46,966. Noted Dec. 31.

Calif., Carmichael — Carmichael Irrigation Dist., 6 mi. riveted steel pipe, 6- to 14-in. diam., to Sacramento Pipe Wks., 720 R St., Sacramento, $19,667; and three 75

See proposal advertisements on page 155, Advertising Section.



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Excavation, Drainage, Irrigation, Levees, River and Harbor (Cont.)

kva. transformers, to General Electric Co., Rialto Bldg., San Francisco, $2,151. Noted Jan. 21.

Calif., San Francisco—Core borings along and near line of Hetch Hetchy Aqueduct, Coast Range Division, to International Diamond Drill Co., Hobart Bldg., $18,884. Noted Jan. 28.

Streets and Roads

PROPOSED WORK

New Jersey—Cape May Co. (Cape May) plans paving 3 mi. road from Ocean City to Cape May Point, 44 ft. R. F. Smith, Marmora, engr.

New Jersey — Ocean Co (Toms River) making plans concrete paving 1 mi. road in New Egypt, and 2 mi. road from Barnegat Bay Bridge, Toms River. J. M. Abbott, Toms River, engr.

N. J., Long Branch — Monmouth Co. (Freehold), plans 8 in. rein.-con. paving ¾ mi. Route 47, Rumson Rd., 20-30 ft., and 3 in. asphalt on 6 in. concrete paving 1.65 mi. Westwood and Cedar Aves., here. G. K. Allen, 60 Broad St., Red Bank, engr.

N. J., Sayreville — Middlesex Co. (New Brunswick), plans concrete paving 1 mi. Main St., here. W. F. Buchanan, New Brunswick, engr.

N. J., Spring Lake—Mayor and Common Council, J. G. Newman, supt., plans improving ¼ mi. streets. $25,000. J. M. Braly, Spring Lake, engr.

N. C., Raleigh — Plans probably asphalt on concrete paving Boylan Ave., Blount, Boundary, Bloodworth, Davie, Edenton, Lane, and Lenoir Sts. C. C. Page, comr. Pub. Wks.

S. C., Conway—Voted $85,000 bonds paving and sewers in various streets.

Ga., Ashburn—Turner Co. defeated $125,000 bonds, hardsurfacing various roads and constructing bridge. Noted Jan. 7.

Ga., Dalton — Making plans paving approximately 1 mi. Hamilton St., 26 ft. $65,000.

Ga., Eatonton—Putman Co. plans election soon $125,000 bonds, improving various roads.

Ga., Greenville — Meriwether Co. voted $300,000 bonds, improving roads. Noted Dec. 10.

Ga., Hartwell — Plans paving various streets. $40,000. D. W. I. Hailey, mayor.

Fla., Brookfield—Election Feb. 8, $85,000 bonds, paving various streets. F. S. Parrigan, Brookfield, engr.

Fla. Ft. Myers—Lee Co. voted $360,000 bonds, paving McGregor Blvd. from here to Punta Rassa; $73,000 bonds, Iona Loop; $119,000 bonds road connecting Tamiami Trail and McGregor Blvd., also $48,000 bonds, constructing 2 mi. Estero Island. Noted Dec. 31.

Fla., Live Oak — Suwanee Co. election Feb. 16, $800,000 bonds, hardsurfacing Suwanee Scenic Highway to Ichtuckne River, etc.

Fla., Palatka—Putnam Co. election Feb. 16, $1,250,000 bonds, constructing roads.

Mississippi — Lowndes Co. (Columbus) and Clay Co. (West Point) making preliminary plans grading and hardsurfacing Columbus-West Point Rd., incl. concrete bridge over Tombigbee River at Waverly.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, plans to expend $15,000,000, for roads and bridges. C. N. Bass, acting comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about Feb. 26, grading, etc., 3.5 mi. Crump-McNairy Co. line Rd., Hardin Co., and 14.5 mi. Selmer-Hardin Co. line Rd., McNairy Co.; also probably concrete paving 3.5 mi. Knoxville-Blount Co. line Rd., Knox Co. C. N. Bass, acting comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 15 mi. Gatlingburg-Indian Gap Rd., Sevier Co. C. N. Bass, acting comr.

Tenn., Clarksville—Montgomery Co. plans surfacing, oiling and repairing various roads. $60,000. J. Selzmeyer, Clarksville, co. engr.

Tenn., Huntsville — Scott Co. plans improving 20 mi. highway from State Road to Campbell Co. line via Huntsville. $150,000.

Tenn., Sneedville — Hancock Co. plans improving 15 mi. Sneedville Highway to Kyles Ford. $50,000.

Tenn., Union City—Obion Co. and State Dept. Highways & Pub. Wks., Nashville, plan improving 20 mi. various roads. $80,000.

Kentucky — State Hy. Dept., Frankfort, plans grading, etc., 1.9 mi. Whitehall-Ohio Co. line Rd., State Aid Project 12-A, Daviess Co.; 9.5 mi. Borah Ferry-Morgantown Rd., Butler Co.; 8.01 mi. Bedford-Oldham Co. line Rd., Federal Aid Project 145, and 13 mi. Bedford-Milton Rd., Federal Aid Project 145, both Trimble Co.; also 7.25 mi. Salyersville-Royalton Rd., State Aid Project 28, Magoffin Co. E. N. Todd, highway engr.

O., Columbus—Franklin Co. soon takes bids grading and bituminous bound macadam paving 1.23 mi. Rodgers Rd., 18 ft. $35,979. C. C. Lattimer, Columbus, co. surv.

O., Columbus—Franklin Co. soon takes bids bituminous bound macadam surfacing 1.904 mi. Joyce Ave., 20 ft., $69,429, and 1.79 mi. Cassady Ave., $59,075; waterbound macadam surfacing latter road $47,913, 1.05 mi. Avery Rd. $17,126, 0.42 mi. Strimple Rd., 16 ft. $14,923, 2.42 mi. Livingston Ave., 18 ft. $66,209, 0.89 mi. Mast College Ave. Rd., 16 ft. $19,539, 1.824 mi. Indianola Ave. Rd., 20 ft., $47,207; bituminous macadam surfacing latter road, $62,617. C. C. Lattimer, Columbus, co. surv.

O., Lisbon—Comrs. Columbiana Co. take bids in spring improving 5 mi. Salineville-Summitville Rd., 16 ft. $135,955. L. C. Kirk, Lisbon, engr. Noted Sept. 17.

O., New Philadelphia—Tuscarawas Co. plans improving Blick Town Rd., 16 ft. $50,000.

Mich., Detroit—Making plans curbing and 3½ in. sheet asphalt on 8 in. concrete paving Pembroke, Curtis, Puritan, Schoolcraft, Houston, Hayes and Harper Aves., Lonyo, Ryan, French, Town Line and Schaeffer Rds. $1,466,000. P. A. Fellows, city engr.

Ill., Galesburg — Plans grading, curbing and vitr. brick on concrete paving 5 blocks South Kellogg and East Knox Sts., 36 and 30 ft., $33,067; and 6,067 sq.yd. Indiana Ave. and East Grove St., 24 and 30 ft., $27,485. A. L. Richey, City Hall, engr.

Ill., Galesburg—Plans grading, curbing and vitr. brick on concrete paving 6,180 sq. yd. South Henderson St. $26,941. A. L. Richey, City Hall, engr.

Ill., Peoria—Making plans grading, curbing and brick paving 9 blocks Shipman St., 24 ft. $40,911. W. E. Backes, City Hall, engr.

Ill., Springfield—Making plans grading, curbing and brick on concrete paving 8 blocks Eastman and Matheny Aves. $65,000. W. Seeley, City Hall, engr.

Ill., Springfield—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Ia., Council Bluffs — Pottawattamie Co. making plans grading Lincoln Highway between Honey Creek and Loveland. $202,000. G. B. Sparks, Council Bluffs, aud.

Ia., New Sharon—Plans paving 10 to 15 blocks various streets. $35,000 or more. D. B. Hill, city clk.

Minn., Anoka—Making plans paving approximately 10 blocks North Ferry St. and 4th Ave. N. $35,000. H. Lee, city clk.

Minn., St. Cloud—Stearns Co., N. Thomey, aud., making plans concrete paving 14 mi. St. Joseph-Albany Rd., State Trunk Highway 3. $280,000. State Highway Dept., St. Paul, engrs. State to furnish cement.

Kan., Herington — Plans paving and sewers various streets. To exceed $25,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Kan., Winfield—Comrs. Cowley Co. making plans brick or concrete paving 5.398 mi. Federal Aid Project 231-D, 18 ft. W. S. Ruggles, Jr., Winfield, co. engr.

Kan., Winfield—Comrs. Cowley Co. making plans concrete or brick paving 3.444 mi. Federal Aid Project 231-C, 18 ft. W. S. Ruggles, Jr., Winfield, co. engr.

Neb., Omaha — Plans opening 4 blocks 22nd St., to exceed $200,000; and 5 blocks St. Marys Ave., $250,000, both 80 ft. J. P. Hoctor, city clk.

S. D., Sioux Falls—Making plans paving approximately 17 blocks North and Spring Aves. and certain alleys. $60,000. W. C. Leyse, city aud.

Montana—State Hy. Dept., Helena, making plans grading, etc., 5 mi. Vaughn-Power Rd., Federal Aid Project 211-A, Cascade Co., 5 mi. Bynum-Dupuyer Rd., Teton Co., 5.5 mi. Lewistown-Grass Range Rd., Fergus Co., 3 mi. Missoula-Florence Rd., Federal Aid Project 215-B, Missoula Co., 5 mi. Whitefish-Olney Rd., Federal Aid Project 98-A, Flathead Co., 5.6 mim. Yellowstone Canyon Rd., Federal Aid Project 217-C, Park Co., and 6 mi. Rocky Canyon Rd., Federal Aid Project 222-A, Gallatin Co., east 24 ft. $22,500; 24 ft. grading and 15 ft. gravel surfacing 2 mi. Billings East Rd., Yellowstone Co., $15,000. State Highway Comrs., engrs.

Montana—State Hy. Dept., Helena, making plans, grading, etc., 4.7 mi. Missoula-Clinton Rd., Federal Aid Project 231-A, Missoula Co., $22,500; grading, gravel surfacing, etc., 13.5 mi. Crew Agency-Wyoming Line Highway, Federal Aid Project 212-I, Big Horn Co. $95,000, 9.6 mi. Glacier Park Trail, Federal Aid Project 84-A, Roosevelt Co. $65,000, and 9.6 mi. Frazer-Oswego Highway, Federal Aid Project 232, Valley Co. $65,000, all 24 ft. State Highway Dept., engrs.

Mo., Clayton—St. Louis Co. making preliminary plans grading, concrete paving, etc., 26 mi. cross country highway connecting 4 state highways between Pattonville and Mehlville, 18 ft. $900,000. R. Jablonsky, Court House, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids Warrenite bitulithic paving, etc., 17,225 sq.yd. Jefferson St. $96,000, 10,325 sq.yd. Jefferson St. between Arsenal and Gravois Sts. $59,000, 6,640 sq.yd. Jefferson St. between Park and Lafayette Sts. $42,000, 4,120 sq.yd. Eugene St. $29,000, 13,275 sq.yd. Wyoming St. $54,500, and 9,555 sq.yd. Connecticut St. $40,800; asphalt paving 2,515 sq.yd. Maryland St. $16,400, 3,150 sq.yd. Magnolia St. $23,500, 15,050 sq. yd. Grand Blvd. $75,000, and 1,210 sq.yd. California St., $5,800; asphaltic concrete paving, etc., 1,790 sq.yd. Bowden St., $10,000, and 3,520 sq.yd. Park Lane, $22,500; concrete paving, etc., 4,435 sq.yd. Lowell Ave., $22,800; brick paving, etc., 5,660 sq.yd. Magnolia St., $34,300; and granite block paving, etc., 3,180 sq.yd. Newstead St., $26,200. W. W. Horner, 300 City Hall, engr.

Ark., Little Rock—Plans grading, curbing and paving Impvt. Dist. 430, Appian Way, West Capitol Ave., West 6th, West 7th, Valentine and Booker Sts., W. Townsend, 603 Boyle Bldg., atty.; Impvt. Dist. 431, Tyler St. from O St. to Newton addition, Harrison St. from O St. to Prospect Ave., R St. from Prospect Ave. to Harrison St., and Q St. from Prospect Ave. to Tyler Ave., S. L. White, 828 Southern Trust Bldg., atty.; Dist. 432, Wildwood, Centerwood, Edgewood and Sherwood Rds., also Dist. 433, West 2nd St. from Main St. to alley between Bway. and Spring Sts. and Louisiana St. from Markham to 2nd Sts., S. L. Kahn, Kahn Bldg., attay.; Dist. 434 and 435, Kenyon St. from Rose to Elm Sts., Rose St. from Kenyon to North Lookout St. and Fairview Rd. from South Lookout to Kenyon Sts.; Dist. 436, Woodlawn St. from Monroe to Jackson Sts., F St. from Jackson to Van Buren Sts., F St. from Jackson to Monroe Sts., Monroe St. from Prospect to Lee Sts., and Jackson St. from Prospect to Lee Sts.

Tex., Barstow—Ward Co. making plans grading, bridging and gravel surfacing 4.59 mi. State Highway 1 from Pecos River to here, 18 ft. $148,000.

Tex., Boston — Bowie Co. plans paving 72,000 yd. in Beverly Heights. $250,000.

Tex., Decatur—Wise Co. making plans grading, bridging and bituminous macadam paving 7.76 mi. State Highway 39 from point 4 mi. north of Bridgeport to Sandy Creek, 18 ft. $195,000. H. P. Hays, Decatur, engr.

Tex., El Paso—El Paso Co. making plans limestone rock asphalt on crushed stone paving, etc., 7.35 mi. State Highway 1 from El Paso to White Spur, 18 ft. $260,000. F. E. Wilson, El Paso, engr.

Tex., Ennis—Voted $60,000 bonds paving various streets. G. C. Sanderson, secy. Noted Dec. 17.

Tex., Groveton—Trinity Co. making plans grading and bridging 9.8 mi. Groveton-Pennington Rd., $82,000, also 19.3 mi. Trinity-Groveton Rd. $179,600, both 26 ft. J. O. Booker, Lufkin, engr.

Tex., Houston—J. C. McVea, city engr., soon take bids gravel paving 27 various streets. $50,000.

Tex., Kingsville—Voted $125,000 bonds paving various streets. Engineer not announced. Noted Jan. 7.

Tex., Memphis—Hall Co. made plans and soon takes bids grading and bridging 3.15 mi. State Highway 5 from Red River to Childress Co., 26 ft. $44,000. C. L. Hasie, Memphis, co. engr.

Tex., Nacogdoches — Defeated $30,000 bonds, paving Road Dist. 1. A. T. Russell, co. judge.

Tex., San Antonio — Making plans hard paving 30 blocks Guadalupe St. between Pecos and Brazos Sts., South Pecos St. between Buena Vista and Laredo Sts., Kendall St. between Courtland and Locust Sts., South Flores St. from Pleasanton Rd. to city limits and parkway on Bway. $70,000. I. Ewig, city engr.

Oklahoma—State Hy. Dept., Oklahoma City, made surveys grading, etc., 11 mi. State Road 1, east of Jet, Alfalfa Co. $45,000, 5 mi. Tonhawa-Three Sands Rd. $40,000, and 11 mi. Blackwell-Hunnewell Rd. $60,000, both Kay Co., 9 mi. Covington-Lucien Rd. 1 $35,000, and 10 mi. Drummond Rd. $40,000, both Garfield Co.; grading and vertical fibre brick surfacing 7 mi. Blackwell-Ponca City Rd., Kay Co., $75,000; grading and clay surfacing 9 mi. State

See proposal advertisements on page 155, Advertising Section.

Streets and Roads (Continued)

Road 13, west of Seiling, Major Co. $44,000, all above roads 30 ft. wide; gravel topping 7 mi. Enid-Drummond Rd. 13, 18 ft., Garfield Co., $46,000. J. M. Page, highway engr.

Okla., Frederick—Tillman Co. made preliminary plans improving 102 mi. various roads, 30 ft. $900,000 bond election soon. J. M. Page, Oklahoma City, highway engr.

Okla., Marland—Making plans grading and concrete paving 9,200 sq.yd. Main St. $28,800. P. P. Dutton, Ponca City, engr. Noted Dec. 17.

Wash., Chelan — Chelan Co. plans constructing approximately 30 mi. roads and 2 steel bridges. $100,000.

Wash., Yakima—Yakima Co. plans constructing 50 mi. Whiteswan-Glenwood Rd. across Indian Reservation, 60 ft. $750,000-$1,000,000.

Calif., Anaheim — Plans constructing various streets. $150,000 or more.

Calif., Los Angeles—Made plans improving Woodman and Osborne Aves., 79,818 sq.ft. 6 in. concrete paving, 828,165 sq.ft. 1½ in. Warrenite-bitulithic on 3½ in. asphaltic concrete surfacing, 25,706 cu.yd. cut, etc. J. C. Shaw, City Hall, engr.

Calif., Los Angeles — Made plans 6 in. concrete paving approximately 20 mi. various streets in Devonshire, Chatsworth Dists. (San Fernando Valley Sect.). J. C. Shaw, city engr.

Calif., Martinez—Contra Costa Co. made plans improving tunnel highway between Oak Villa and Buckley Ranch, 68,000 cu.yd. excav., 5,000 cu.yd. macadam. To exceed $30,000. R. R. Arnold, Martinez, co. surv.

Calif., Mountain View—Made plans improving Pettis, Mt. View, Pacific Aves., etc., 443,430 sq.ft. grading, 377,900 sq.ft. 4 in. and 65,530 sq.ft. 4½ in. Warrenite-bitulithic paving, etc. C. C. Kennedy, Call Bldg., San Francisco, engr.

Calif., Newport Beach—Plans curbing, guttering, walks, and 4 in. asphaltic macadam paving approximately 9 mi. streets in Palisades section. P. E. Kressly, H. W. Hellman Bldg., Los Angeles, engr.

Calif., Ontario—Plans paving, etc., portions of California St. and 5th Ave. To exceed $25,000.

Calif., Petaluma—Plans election $35,000 bonds, paving, guttering and concrete curbing various streets. S. Gonzales, city engr.

Calif., San Anselmo — Make plans improving Mariposa, Belle, Austin, Melville Aves., etc., 12,891 cu.yd. excav., 74,210 sq. ft. 5 in. and 162,281 sq.ft. 4 in. asphaltic concrete paving, 236,491 sq.ft. grading, etc. To exceed $100,000. H. E. Feusier, 109 Tunstead Ave., engr.

Calif., San Diego—Common Council plans improving Proctor Pl., Monroe and Meade Aves., Arch and New Jersey Sts., 143,565 sq.ft. 1½ in. Warrenite on 2½ in. bituminous paving, 14,661 sq.ft. concrete sidewalk, 2,438 lin.ft. concrete curbing, etc. F. A. Rhodes, city engr.

Calif., San Francisco — Making plans artificial stone sidewalks on approximately 10 mi. various streets. M. M. O'Shaughnessy, city engr.

Calif., Salinas — Monterey Co. making plans grading approximately 4 mi. San Lucas-Coalinga Rd. in Priest Valley. $25,000 or more. H. F. Cozzens, Salinas, co. surv.

Calif., San Luis Obispo — San Luis Obispo Co. made plans 5 in. asphaltic concrete paving 1,361,330 sq.ft. Coast Highway between Morro and Cambria. $200,000 or more. A. F. Parson, 644 Islay St., engr. Noted Oct. 1.

Calif., Santa Ana—Made plans curbing, walks and 5 in. concrete paving, 529,612 sq.ft. South Parton and West Walnut Sts., etc. $90,000 or more. N. H. Neff, city engr.

Calif., Ukiah — Mendocino Co. making plans constructing road over Rockport Hill connecting Ft. Bragg with Redwood Highway. $25,000 available. E. H. Smith, Ukiah, co. surv.

Calif., Vallejo—Making plans paving 19 blocks Branciforte, Napa, Tennessee Sts., etc. To exceed $25,000. T. D. Kilkenny, city engr.

Quebec—Provincial Govt., Quebec, plans graveling or macadam paving 10 mi. National Road from Almaville to St. Nathieu, Champlain Co. $175,000. A. Fraser, Quebec, engr.

Que., Quebec—Election Feb. 15, $125,000 bonds, widening Cote d'Abraham. W. D. Baillarge, Quebec, engr. Noted Jan. 21.

Ontario—Provincial Government, Dept. Highways, Ottawa, plans improving various provincial highways in Carleton Co. $212,000.

B. C., Burnaby—Voted $118,500 bonds, bituminous and concrete paving various streets. E. Smith, Municipal Hall, Edmonds, engr.

B. C., Point Grey — Municipality voted $50,000 bonds, opening various streets. W. B. Greig, 5851 West Blvd., Vancouver, engr.

B. C., West Vancouver—Voted $100,000 bonds, concrete paving various streets.

BIDS DESIRED

N. Y., Peekskill—Feb. 23, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading and concrete paving portion State Parkway from State Camp Rock to Bear Mountain Bridge Approach Rd., at Roa Hook, near here. J. Downer, ch. engr.; adv. E. N.-R. Feb. 4. Noted Nov. 19.

Pennsylvania — Mar. 2, by State Hy. Dept., Harrisburg, bituminous on concrete or rein.-con. paving approximately 43 mi. 13 projects in Beaver, Bedford, Bradford, Cambria, Crawford, Dauphin, Delaware, Jefferson - Clearfield, Lehigh, Montour, Schuylkill, Somerset and Washington Counties. W. H. Connell, eng. executive and deputy secretary of highways; adv. E. N.-R. Feb. 4.

Virginia — Feb. 16, at office State Hy. Comn., Richmond, grading, bridging, surfacing, etc., 5.5 mi. Route 32, Project F-153-A, Charlotte Co.; 4.6 mi. Route 12, Project F-186-B, Pittsylvania Co.; 2.7 mi. Route 111, Project S-299-A, Buchanan Co.; 3.5 mi. Route 37, Project F-407, Richmond Co.; and 7.5 mi. Route 31, Project F-420-A, Dinwiddie Co.; adv. E. N.-R. Feb. 4.

W. Va., Charleston — Feb. 15, Court of Kanawha Co., Court House, grading and concrete paving 1.23 mi. Woodward Branch Rd., 16 ft.; 0.77 mi. Magazine Branch Rd., 14 ft.; and 0.65 mi. Chandler Branch Rd., 14 ft. R. N. Moulton, Charleston, clk.

W. Va., Milton — Feb. 16, by Common Council, grading, curbing and bituminous macadam with Bermudez road asphalt binder or with oil asphalt binder, concrete, or vitr. brick on concrete, and asphalt filler paving Harrison St. from Smith St. to Glenwood Ave.; Smith St. from Harrison to Florida Sts.; Florida St. from Smith St. to Washington Ave.; South Main St. from Smith St. to Joe Dillons Property; alley between North Main and Church Sts.; and alley from North Main St. to alley between Lots 23 and 24. R. W. Breece, Holswade Bldg., 317 9th St., Huntington, engr.

N. C., Charlotte—Feb. 16, by Bd. Comrs., paving 200,000 sq.yd. and 40,000 sq.yd. concrete walks on various streets. E. Read, city clk.; adv. E. N.-R. Feb. 4.

N. C., Dunn — Feb. 19, by P. A. Lee, mayor and Bd. City Comrs., grading, curbing, concrete paving, storm, etc. various streets. $25,000. G. C. White & Co., Durham, engrs.

N. C., Wendell—Feb. 9, by City, W. A. Brown, mayor, grading, concrete curbing and guttering, granite curbing, paving, etc. various streets. $90,000. J. B. McCrary Eng. Corp., Citizens & Savings Bank Bldg., Atlanta, Ga., engrs.

N. C., Wilson — Feb. 10, by Hy. Comn. Wilson Co., clearing, grubbing and asphalt or concrete paving, etc., 6.78 mi. road from city limits of Wilson to Nash Co. line, 16 ft. H. W. Rankin, engr.; adv. E. N.-R. Feb. 4.

South Carolina—Feb. 16, by State Hy. Comn., Columbia, topsoiling, etc., 6.4 mi. State Route 43, Federal Aid Project 268-A, Edgefield Co., 19,297 lb. reinforcing, also improving and bridging 3.1 mi. State Route 12, State Project S-522-B, Aiken Co., 10,203 lb. reinforcing, State Highway Engineer, Columbia, engr.; concrete curbing, asphaltic paving, etc., 0.677 mi. State Route 10, Federal Aid Project 170, Laurens Co. E. D. Sloan, Greenville, engr.

S. C., Conway — Feb. 18, at office City Clerk, paving and municipal improvements. Johnson & Roberts, Marion, civil engr.; adv. E. N.-R. Feb. 4.

Fla., Miami—Davenport & Rich taking bids approximately 10 mi. oiled sand on 8 in. rock surfacing and approximately 20 mi. 5 ft. sidewalks on 206 acre tract adjoining development of Westward Heights. $200,000.

Ala., Birmingham — Feb. 15, by City Comn., concrete paving 8 blocks Pike Rd. and Graymont Ave., 26 and 46 ft. $47,150, and 5 blocks Huntsville Rd. and 24th St., 30 ft., $21,370; also curbing, guttering, sidewalks and concrete paving 6 blocks 20th St., Ensley, 40 ft., $26,580. A. J. Hawkins, city engr.

Louisiana—Feb. 18, by State Hy. Comn., Baton Rouge, graveling 2.43 mi. Colfax-Pollock Highway, State Project 393-B-1, Grant Parish. W. B. Robert, Reymond Bldg., Baton Rouge, highway engr.

Louisiana—Feb. 23, by State Hy. Comn., Baton Rouge, 1,448 cu.yd. washed gravel, f.o.b. cars at Rhinebardt, for surfacing Jena-Rhinehardt Highway, State Project 153-D, La Salle Parish. W. B. Robert, Reymond Bldg., highway engr. Noted Nov. 19.

Louisiana—Mar. 2, by State Hy. Comn., Baton Rouge, graveling 8 mi. Logansport-Gloster Rd., State Project 450-B, DeSoto Parish; and 4.23 mi. Sorrento-Bayside Highway, State Project 350-E, Ascension Parish. W. B. Robert, Reymond Bldg., Baton Rouge, highway engr.

Indiana—Feb. 28, by Comrs. Hancock Co., Greenfield, grading, concrete paving, etc., 1½ mi. Shirley Rd., 20 ft., for Henry Co. (New Castle) and Hancock Co. (Greenfield). $28,000. Noted Jan. 7.

Ind., Auburn—Feb. 8, by C. Kain, engr., Auburn, grading and graveling 4.2 mi. Nicholls Rd., 26 ft., for De Kalb Co. $27,000. Noted Jan. 21.

Ind., Decatur—Feb. 8, by D. Boch, engr., Decatur, waterbound macadam paving 3 mi. Fetters Rd., $27,500; 2.9 mi. Gerbert Rd., $28,000; also 2.7 mi. Boerger Rd., $27,000, all 26 ft., for Adams Co. Noted Jan. 28.

Ind., Hartford City—Feb. 19, by City Engineer, sheet asphalt on concrete surfacing 12,820 sq.yd. Weber St., $26,200; and 10,560 sq.yd. East Commercial St., $25,500. Noted Jan. 28.

Ind., Plymouth — Feb. 8, by J. Hildebrand, engr., Plymouth, graveling and grading 4 mi. Lake Rd., 26 ft., for Marshall Co. $26,000. Noted Jan. 28.

Ind., Terre Haute—Feb. 8, by G. Grimes, engr., Terre Haute, concrete surfacing 10,560 sq.yd. Jackson Rd., $25,942; 8,800 sq.yd. Fisbeck Rd., Sect. 2, $26,896; and 12,320 sq.yd. Fisbeck Rd., $28,800, for Vigo Co. Noted Jan. 28.

Ill., Naperville—Feb. 8, by City, grading, curbing, guttering and concrete paving approximately 27,000 sq.yd. Ogden Ave. Addition. Wells Eng. Co., Court House, Geneva, engrs.

Wis., La Crosse—Feb. 10, by Bd. Pub. Wks., W. J. Fries, secy., improving 21st Pl., 23rd, Hagar, Logan, 19th and King Sts., 10,794 lin.ft. combination concrete curb and gutter, 16,639 sq.yd. vertical fiber brick, asphaltic concrete, asphaltic macadam, rein.-con., Warrenite or vibrolithic concrete paving, and 1,997 sq.yd. paving in track zone. To exceed $25,000. C. C. Congdon, City Hall, engr.

Minn., Duluth — Feb. 11, by W. H. Tischer, city comr., grading, gravel surfacing, etc. 2.25 mi. Western Duluth Blvd. extension, 40 ft. $100,000. J. Wilson, city engr.

Nebraska—Feb. 24, by Dept. Pub. Wks., State House, Lincoln, **(F. A. P. means Federal Aid Project)**, gravel surfacing, etc., 6.5 mi. Laurel-Wayne Rd., F. A. P. 4, and 6.7 mi. Yankton-Bridge Fordyce Rd., State Aid Project 72-C, both in Cedar Co.; 11.2 mi. Blair Rd., F. A. P. 23, Washington Co.; 8.2 mi. Wahoo-Yutan Rd., F. A. P. 235-C, and 1 mi. Ceresco Cutoff, F. A. P. 27-G, both in Saunders Co.; 6.3 mi. Osceola-David City Rd., F. A. P. 29, Polk Co.; 3.3 mi. Homer-Walthill Rd., F. A. P. 48-A, Dakota Co.; 12 mi. same road, F. A. P. 49-C, Thurston Co.; 1.1 mi. Milford-Dorchester Rd., F. A. P. 55-A, 1.9 mi. F. A. P. 55-B, 5 mi. Friend-Exeter Rd., F. A. P. 55-C, all in Saline Co.; 0.1 mi. Pawnee City Rd., F. A. P. 97-B, Pawnee Co.; 5.1 mi. Union-Elmwood Rd., F. A. P. 256-A, 6.5 mi. Eagle-Elmwood Rd., F. A. P. 153-A, 2 mi. road west of Eagle, F. A. P. 133-C, and 0.7 mi. road in Greenwood Twp., F. A. P. 107-E, all foregoing in Cass Co.; 3.7 mi. Auburn-Johnson Rd., F. A. P. 116-A, Nemaha Co.; 9.7 mi. Syracuse-Palmyra Rd., F. A. P. 133-F, Otoe Co.; 8.4 mi. Milford-Dorchester Rd., F. A. P. 134-B, Seward Co.; 0.7 mi. Capitol Highway, F. A. P. 208-B, and 382 sq.yd. Capitol Highway, F. A. P. 208-C, both in Richardson Co.; 11.9 mi. Chester-Hebron Rd., F. A. P. 241-A, Thayer Co.; 12.46 mi. Fairbury-Western Rd., F. A. P. 247-A, Jefferson Co.; 12.9 mi. Fremont-Hooper Rd., F. A. P. 263-B, Dodge Co.; 14.7 mi. Randolph-Plainview Rd., F. A. P. 268-A, Pierce Co.; and 7.5 mi. Waterbury-Allen Rd., F. A. P. 270-A, Dixon Co. R. L. Cochran, Lincoln, highway engr.

Nebraska—Feb. 25, by Dept. Pub. Wks., State House, Lincoln, **(F. A. P. means Federal Aid Project)**, gravel surfacing, etc., 21.6 mi. F. A. P. 7-C Adams Co., 1.5 mi. Max Doane Rd., F. A. P. 41-B Dundy Co., 13.6 mi. Bartlett-Spalding Rd., F. A. P. 59-A Wheeler Co., 6.4 mi. Alma-Orleans Rd., F. A. P. 71 and 71-D Harlan Co., 0.5 mi. Kearney-Pleasanton Rd., F. A. P. 73-B Buffalo Co., 9.3 mi. Doane-Parks Rd., F. A. P. 74-A Dundy Co., 5.7 mi. Neligh-Sough Rd., F. A. P. 83-A, and 6.4 mi. Clearwater-Ewing Rd., F. A. P. 139-G both in Antelope Co., 14 mi. Hebron-Nelson Rd., F. A. P. 164-B and C Nuckolls Co., 16 mi. Bassett-Stuart Rd., F. A. P. 168-B Rock Co., 6.2 mi. Ord-Arcadia Rd., F. A. P. 193-B Valley Co., 2.7 mi. Minden-Newark Rd., F. A. P. 196 Kearney Co., 8.4 mi. O'Neill-Ewing

See proposal advertisements on page 155, Advertising Section.

Streets and Roads (Continued)

Rd., F. A. P. 200-A Holt Co., 0.521 mi. Orleans-Oxford Rd., F. A. P. 240-A Harlan Co., 13 mi. Ravenna-Grand Island Rd., F. A. P. 276-B Buffalo Co., 2.7 mi. Niobrara-Monawi Rd., F. A. P. 280-C Boyd Co., 0.8 mi. Kearney-Newark Rd., F. A. P. 283-A, Kearney Co.; also constructing two 30 ft. I-beam approach spans and one 60 ft. truss bridge on pedestal piers, etc., on Niobrara-Monawi Rd., F. A. P. 280-C, Boyd Co. R. L. Cochran, Lincoln, highway engr.

Nebraska—Feb. 26, by Dept. Pub. Wks., State House, Lincoln, **(F. A. P. means Federal Aid Project)**, gravel surfacing, etc., 7 mi. Elwood-Smithfield Rd., F. A. P. 11, Gosper Co.; 15.6 mi. Litchfield-Broken Bow Rd., F. A. P. 22, also Sections B, C, D and E, Arnold-Merna Rd., F. A. P. 96-C, and 4.8 mi. same road F. A. P. 188-C, Custer Co.; 7.2 mi. Lexington-Elwood Rd., F. A. P. 252-A, and 19.5 mi. Overton-Cozad Rd., F. A. P. 39, both in Dawson Co.; 3.4 mi. McCook-Bartley Rd., F. A. P. 46, Red Willow Co.; 7.8 mi. Hayes Center West Rd., F. A. P. 63-A, Hayes Co.; 1.7 mi. Culbertson-Trenton Rd., F. A. P. 68-D, Hitchcock Co.; 6.6 mi. Hyannis-Seneca Rd., F. A. P. 80-B, Hooker Co.; 3.5 mi. Chadron-Bordeaux Rd., F. A. P. 124-B, Dawes Co.; 10.7 mi. Loomis-Bertrand Rd., F. A. P. 251-B, and 3.4 mi. Atlanta-Oxford Rd., F. A. P. 145-C, both in Phelps Co.; 9.2 mi. Kimball-Dix Rd., F. A. P. 147-A, Kimball Co.; 10.2 mi. Sidney-West Rd., F. A. P. 149-D, Cheyenne Co.; 10.9 mi. Merriman-Gordon Rd., F. A. P. 202-A, 11.9 mi. Merriman-Eli Rd., F. A. P. 202-D, and 13.5 mi. Eli-Cody Rd., F. A. P. 202-E, all foregoing in Cherry Co.; also 10.5 mi. Grant-Branden Rd., F. A. P. 264-A, Perkins Co. R. L. Cochran, Lincoln, highway engr.

Neb., Omaha—Feb. 9, by J. P. Hoctor, city clk., improving various streets and alleys in Dists. 2444, 2549, 2620, 2665, 2726, 2749, 2765, 2768, 2781, 2794, 2799, 2850, 2855, 2861, 2867, 2879, 2880, 2887, 2890, 2894, 2902, 2911, 2486, 2487, 2659, 2672, 2677, 2843, 2868 and 2924, etc. H. Beal, City Hall, engr. Former bids rejected. Noted Jan. 7.

Tex., Georgetown—Feb. 22, by G. Keahey, city secy., curbing, guttering and paving 40,000 sq.yd. various streets, for City. $70,000.

Tex., Groesbeck — Feb. 15, by H. F. Kirby, judge Limestone Co., rein.-con. or brick paving 7.5 mi. Reunion Grounds and Shiloh Rds., 18 ft. H. Boyette, Pittman Bldg., Mexia, engr.

Tex., Hallettsville — Lavaca Co. taking bids paving 11.07 mi. State Highway 3-B, State Aid Project 320, Unit 2, with gravel with ½ in. limestone rock asphalt, double bituminous surface, 6 in. compacted waterbound macadam with 2½ compound bituminous macadam course, 4 in. gravel and 4 in. waterbound macadam with ½ limestone rock asphalt or double bituminous surface treatment. $142,000. W. H. Koether, Hallettsville, engr.

Tex., San Angelo — Feb. 9, by C. E. Starkie, engr., San Angelo, improving various streets, 7,000 yd. excav., 12,000 ft. curbing and guttering, 45,700 yd. standard paving, etc., for City. $130,000.

Calif., San Diego — Feb. 15, by A. H. Wright, city clk., improving Vermont, Essex and Herbert Sts., 189,040 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete paving, 693 lin.ft. concrete curbing, 3,351 sq.ft. concrete sidewalk, 212 cu.yds. excav., etc.; also Muir Ave., 2,873 cu.yds. excav., 125,593 sq.ft. 1½ in. asphaltic concrete on 3 in. bituminous paving 33,264 sq.ft. concrete sidewalk, 6,200 lin.ft. 8 in. and 50 lin.ft. 6 in. concrete curbing, etc. F. A. Rhodes, city engr. Noted Dec. 10 and Jan. 28.

Calif., Sacramento—Sacramento Co. taking bids grading, graveling, etc., 20,000 cu. yd. Joint Highway Dist. 4. C. W. Deterding, Jr., Sacramento, co. engr. Noted Dec. 31.

BIDS RECEIVED

W. Va., Buckhannon—City Council, Jan. 20, rein.-con. paving 9 projects, from Phillips & Withers, Buckhannon, $88,000. Noted Jan. 7.

Louisiana — State Hy. Comn., Baton Rouge, Jan. 26, graveling 6.82 mi. Crowley-Eunice Highway, State Project 552 A, Acadia Parish, from Wimberly & Barbour, Churchpoint, $23,620; 8.49 mi. Jena-Jonesville Highway, Federal Aid Project 166 A, Catahoula Parish, from A. M. Weeks, Alexandria, $19,647; 5.15 mi. Lake Charles-Lake Arthur Highway, Combination 1, State Project 512 A, Jefferson Davis Parish, from I. M. Goldberg, Abbeville, $46,899, Combination 2, from Banta & Mastersbaugh, Lake Charles, $50,138; 0.72 mi. Opelousas-Ville Platte Highway, State Project 386 C, Landry Parish, from J. Ham, Baton Rouge, $3,440. Noted Jan. 7 and 14.

Ohio—Dept. Highways & Pub. Wks., Columbus, Jan. 22, grading and paving with **(a)** brick **(b)** rein.-con. **(c)** concrete **(d)** asphaltic macadam **(e)** tar macadam **(f)** waterbound macadam **(g)** furnishing and delivering Hillside and Standard brick **(1)** 1.36 mi. Sect. "C" Nines-Ashtabula Rd., Ashtabula Co. **(2)** 1.011 mi. Sect. "Ripley," Ripley-Hillsboro Rd., Brown Co. **(3)** 0.229 mi. same road **(4)** 4 mi. Hamilton-Eaton Rd. Sect. "H," Butler Co. **(5)** 2.49 mi. Sect. "B-2" Chagrin Falls-Cuyahoga Rd., Cuyahoga Co. **(6)** 0.937 mi. Sect. "Chagrin Falls," Chagrin Falls-Cuyahoga Falls Rd., Cuyahoga Co. **(7)** 2.45 mi. Sect. "C" Hambden-Andover Rd., Geauga Co. **(8)** 3.105 mi. Sect. "K-2" Jackson-McArthur Rd., Jackson Co. **(9)** 3.906 mi. Sect. "M" Cleveland-East Liverpool Rd., Mahoning Co. **(10)** 2.319 mi. Sect. "A" Twinsburg-Elyria Rd., Summit Co. **(11)** 2.319 mi. Sect. "Macedonia" Twinsburg-Elyria Rd., Summit Co. **(12)** 3.436 mi. Sect. "Northfield" Twinsburg-Elyria Rd., Summit Co., from Uncapher & Gillespie, Marion, **(d1)** $26,993 **(e1)** $26,933; from Losey Eng. & Supply Co., Kenton, **(e2)** $30,747 **(e3)** $9,673; from Bigler Bros., Middleton, **(e4)** $118,-554; from Craig & Jordon, Blanchester, **(d4)** $125,377 **(e4)** $126,332; from Homeberger-Wager Co., Camp and Filmore Sts., Sandusky, **(a5)** $112,900 **(g5)** $35,735 **(a6)** $44,900 **(g6)** $14,424 **(e7)** $67,400 **(g10)** $70,700 **(e11)** $73,400 **(b12)** $111,900 **(g12)** $7,939; from Holmes Constr. Co., Wooster, **(b5)** 104,359 **(e9)** $115,201; from Cleveland Trinidad Paving Co., The Arcade, Cleveland, **(a6)** $47,544; from W. Sousley Co., Ada, **(f7)** $57,719; from C. J. Uible, Hillsboro, **(e8)** $87,977; from Brewer & Brewer Sons, Chillicothe, **(d8)** $97,797; from Miller Bros., Gallipolis, **(e8)** $97,129; from J. D. Paxon, Salem, **(d9)** $116,677 **(e9)** $116,677; from Mellert-Weider Co., Medina, **(g10)** $5,039. Noted Jan. 14.

Indiana—J. D. Williams, dir. State Hy. Comn., Indianapolis, Jan. 27, **(S. R. means State Road and e. e. engrs. est.)**, paving 9.6 mi. S .R. 25 from Angola to Ohio State line, Steuben Co., from J. C. O'Connor & Sons, 209 Central Bldg., Ft. Wayne, $184,-951 e. e. $210,886, 8.9 mi. S. R. 7 from Huntington to Roanoke, Huntington Co., from Cunningham Constr. Co., Rockvale Rd., Indianapolis, $153,275 e. e. $181,425, 8.9 mi. S. R. 10 from Terre Haute to Lyford, Vigo and Parke Counties, from J. F. Kelley & Co., Terre Haute, $128,225 e. e. $162,277, 8.9 mi. S. R. 10 from Boswell to Earl Park, Benton Co., from Western States Paving Co., Davenport, Ia., $151,909 e. e. $188,105, 10.4 mi. S. R. 10 from Hazleton to Vincennes, Knox Co., from Lenahans & Konen, Vincennes, $159,114 e. e. $204,188, all foregoing 20 ft.; grading 4.6 mi. S. R. 16 from Lincoln City to Santa Claus, and 4.5 mi. S. R. from Santa Claus to St. Meinrad, Spencer Co., 30 ft., from J. C. Ellis, Rockport, $44,611 and $38,240 respectively, e. e. $63,366 and $54,118 respectively. Noted Jan. 14.

Calif., La Mesa—Grading and 5 in. concrete paving approximately 165,000 sq.ft. Chollas Rd., from D. H. Ryan, 1615 Fern St., San Diego, $0.16 per sq.ft. Noted Jan. 7.

Calif., Los Angeles — From W. L. Liddington, 420 East 60th St., improving portion of Temple St., 136,225 sq.ft. 8 in. concrete paving $0.239 per ft., grading $3,416, etc., total $44,960; from C. P. Day Corp., 35 North Raymond Ave., Pasadena, Ave. 46 between York Blvd. and Mount Eagle Pl., 141,559 sq.ft. 5 in. cnocrete paving $0.167 per ft., 498,311 sq.ft. 5 in. concrete with expansion joints $0.17, and 248,428 sq.ft. 6 in. concrete with expansion joints $0.20, etc., total $351,920; from G. H. Oswald, 266 East 58th St., portion of Manchester Ave., grading $2,500, 98,616 sq.ft. 6 in. concrete paving $0.195, etc., total $31,672, and San Marino St. between Magnolia and Kingsley Dr., grading $7,500, 167,725 sq.ft. asphalt paving $0.21 per ft., etc., total $50,755. Noted Dec. 17.

CONTRACTS AWARDED

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 10,155 ft. highway in Bedford and Lexington, to J. H. Fannon, 28 Hinkley St., Somerville, $56,903; rein.-con. and bituminous paving 20,187 ft. highway in Brockton and Bridgewater, to C. Biancia & Co., Inc., Framingham, $199,891; bituminous concrete paving 15,400 ft. highway in Chatham, to A. D. Bridges & Sons, Hazardville, Conn., $47,-447. Grand total $304,241. Noted Dec. 10.

Massachusetts—Dept. Pub. Wks., Boston, bituminous concrete paving 21,521 ft. highway in Dennis, also rein.-con. and bituminous macadam paving 14,056 ft. highway in Yarmouth, to Lane Constr. Co., 37 Colony St., Meriden, Conn., $318,000 and $46,765 respectively; bituminous macadam paving 6,400 ft. highway in Ayer and Littleton, to R. H. Newall Co., Uxbridge, $41,-555. Grand total $406,320. Noted Dec. 10.

North Carolina — State Hy. Dept., Raleigh, to Foster Constr. Co., Wilkesboro, grading, paving etc. 6.61 mi. Project 477, Wake Co., 500 cu.yd. drainage ditch excav. at $0.50 per cu.yd., 52,400 cu.yd. borrow and common excav. $0.40, 69,840 sq.yd. plain concrete $2.52, 11,290 lb. reinforcing, etc. $0.07, total $209,319; to Coastal Constr. Co., Florence, S. C., 9.15 mi. Project 6610, Richmond Co., 700 cu.yd. drainage ditch excav. $0.40, 105,800 cu.yd. excav. and borrow $0.45, 75,930 sq.yd. concrete base and header course $1.42 66,440 sq.yd. asphaltic surfacing $1.06, etc., total $238,-466. Noted Dec. 24.

North Carolina — State Hy. Dept., Raleigh, to Hagedorn Constr. Co., Greensboro, grading and concrete paving 4.71 mi. Project 597, Rockingham Co., 100 cu.yd. drainage ditch excav. at $0.70 per cu.yd., 4,700 cu.yd. common excav. $0.49, 3,000 cu. yd. borrow excav. $0.45, 41,720 sq.yd. plain concrete $2.58, etc., total $112,151; to Coastal Constr. Co., Henderson, 5.62 mi. Project 471, Vance Co., 100 cu.yd. drainage ditches $0.75, 10,100 cu.yd. common excav. and borrow $0.60, 59,330 sq.yd. concrete base course $1.65, etc., total $158,961. Noted Nov. 12.

Fla., Fort Lauderdale—Comrs. Broward Co., grading and paving 29.7 mi. Stone Rd., 30 ft., to F. N. Brown, Del Ray, approximately $900,000. Noted Dec. 31.

La., Gretna — Jefferson Parish, grading and warrenite bitulithic on bituminous concrete paving 3.66 mi. Metairie-Shrewsbury Highway, 20 ft., to Southern Roads Co., Whitney Bank Bldg., New Orleans, $136,-012. Noted Jan. 14.

Ill., White Hall—Grading, curbing, guttering and 7 in. rein.-con. paving 22,200 sq. yd. Main St., to Devine Constr. Co., Papineau, $67,945. Noted Dec. 3.

Ia., Bloomfield—Davis Co., grading 289,-832 cu.yd. Federal Aid Project 209, to J. C. Parquette, 2347 Capitol Ave., Des Moines, $80,929.

Ia., Council Bluffs—W. A. Groneweg, city clk., curbing, guttering, grading and paving approximately 29,630 sq.yd. various streets, to J. J. Wickham, Council Bluffs. Noted Jan. 14.

Minn., Willmar — J. W. Haines, aud. Kandoyohi Co., improving 7.5 mi. Job 2604, Road 19, 125,511 cu.yd. excav., 76,015 cu. yd. overhaul, etc., to N. Lofgren, 3331 Aldrich Ave. N., Minneapolis, $33,495. Noted Jan. 14.

Neb., McCook — Paving various streets in Dist. 8, to Allied Contractors, Inc., 1803 Douglas St., Omaha, $220,000.

Tex., Ennis — Paving 30,000 yd. various streets, to Central Bitulithic Co. Praetorian Bldg., Dallas, $105,600.

Washington—State Hy. Dept., Olympia, grading and crushed gravel surfacing 3.95 mi. State Rd. 11, Franklin Co., to Payne & Doust, 406 Lindell Bldg., Spokane, $38,865, 1 mi. State Rd. 3, Asotin Co., to H. S. Barr, Colfax, $12,248; 0.33 mi. State Rd. 14, Kitsap Co., to J. Weeks, R. F. D. 7, Box 464, Seattle, $10,621, 9.7 mi. State Rd. 14, Kitsap Co., to M. S. Phillips, 507-09 California Bldg., Tacoma, $7,956, 5.79 mi. State Rd. 8, Skamania Co., to Coyle Constr. Co., 901 Westlake Ave. N., Seattle, $136,407; crushed gravel surfacing 4,000 cu.yd. State Rd. 3, Benton Co., to O. S. Brown, Prosser, $3,200, and 8,000 cu.yd. State Rd. 3, Benton Co., to Campbell Constr. Co., Sunnyside, $4,320. Grand total $213,617. Noted Jan. 7.

Wash., Bellingham — Gravel surfacing East Maple St. and Happy Valley Rd., to C. E. Lind, Bellingham, $25,895.

Wash., Seattle — Bd. Pub. Wks., one course concrete sidewalks on 10,800 sq.yd. 8th Ave. N. E. et al., to Paduano & Co., 1546 12th St. S., $41,622. Noted Jan. 21.

Calif., Los Angeles—Supervs. Los Angeles Co., curbing, guttering, walks and concrete paving 158,845 sq.ft. Grevillea St. between Inglewood and Hawthorne city limits, to T. T. Crawford, 1st Natl. Bank Bldg., Pomona, $57,735. Noted Jan. 28.

Calif., Los Angeles — Concrete paving Burnett Ave. between Lassen and Roscoe Sts., to J. Martin, 789 Lyon St., $47,865; curbing, guttering, concrete paving, etc. El Centro Ave. between Santa Monica Blvd. and Melrose Ave., to W. Liddington, 1809 South Vermont Ave. $32,375; concrete and asphaltic concrete paving portion of Ave. 33, to Chalmers & Ford, H. W. Hellman Bldg., $235,145. Grand total $315,385. Noted Jan. 28.

Calif., Pacific Grove—Concrete curbing, guttering and 1½ in. asphaltic concrete surfacing 101,800 sq.ft., etc., portion of Gibson St., to Clark & Henery Constr. Co.,

See proposal advertisements on page 155, Advertising Section.

Streets and Roads (Continued)

Chancery Bldg., San Francisco, approximately $26,500.

Calif., Watts—For 5 in. concrete paving, curbing, walks, etc., on Gorman Ave. between 107th St. and Santa Ana Blvd., to G. H. Oswald, 366 East 58th St., Los Angeles, $30,050.

Buildings—Industrial

PROPOSED WORK

Vt., Bellows Falls—POWER PLANT—New England Power Co., 35 Harvard St., Worcester, having preliminary plans prepared power house and canal, here. $3,000,000.

Mass., Quinsigamond (Worcester P. O.)—BILLET and ROD MILL—Amer. Steel & Wire Co., C. S. Marshall, genl. mgr., plans billet and rod mill, South Works. To exceed $1,000,000.

Mass., Reading — WORKSHOP and GARAGE — Town, Electric Dept., Town Hall, plans workshop and garage. $40,000 or $50,000.

N. Y., Albany—ICE PLANT—City Ice & Fuel Co., H. O. Norval, pres., 6610 Euclid Ave., Cleveland, O., having plans prepared by C. C. Coneby, engr. and archt., 3220 Jefferson Ave., Cincinnati, O., 1 story, 160 ton, brick, steel and concrete ice plant, here.

N. Y., Buffalo — LAUNDRY — Modern Laundry, 323 Niagara St., plans rebuilding plant, Niagara St., recently destroyed by fire. $60,000.

N. Y., Buffalo—PAPER BOX FACTORY—Midland Paper Box Co., 72 East Utica St., plans rebuilding factory, East Utica St., recently destroyed by fire. $40,000.

N. Y., Buffalo—STORAGE and WAREHOUSE — Delaware Storage Warehouse, Dakota and Delaware Aves., plans storage and warehouse, Dakota St. $50,000.

N. Y., Glendale (mail Brooklyn)—BOX and PAPER MILL — Pequot Mfg. Co., Thompson Ave., Long Island City, plans 8 buildings, steel, for box and paper mill, Schmidt Farm, here. $2,000,000.

N. Y., Long Island City—PAPER PLANT—Hygrade Corrugated Paper Products Co., Manley St., plans brick, steel and stone, plain foundation, Hunters Point Ave. and Orton St. $1,000,000. Engineer and architect not selected.

Pa., Phila.—FACTORY—C. E. Johnson Co., 10th and Lombardi Sts., having plans prepared by E. G. Perrot, 1211 Arch St., 1 story and basement, 50 x 80 ft., brick and steel, plain foundation, Swanson and Porter Sts.

Pa., Phila.—MILL—A. J. Sauer & Son, archts., Schaff Bldg. soon lets contract 1 story and basement, 86 x 192 ft., rein.-con. and brick, plain foundation, Erie and Amber Sts., for Artcraft Silk Hosiery Mills, Erie and Amber Sts. $60,000.

W. Va., Charleston — WAREHOUSE and BOX SHOP—Owens Bottle Co., 1401 Nicholas Bldg., Toledo, O., having revised plans prepared by Devore Co., 908 Nicholas Bldg., Toledo, O., engrs., and takes bids about Feb. 6, 2 story, 120 x 1,035 ft. warehouse and box shop, here.

Fla., Coral Gables — COLD STORAGE and ICE PLANT — Florida East Coast Utilities, Miami, having plans prepared by Ophuls & Hill, Inc., 112 West 42d St., New York City, N. Y., 22 story, 2,000,000 cu.ft. storage space, rein.-con., Greco Ave. and Le Jeune Court. $1,400,000.

Fla., Orlando — FACTORY, WAREHOUSE and OFFICE—Florida Agricultural Supply Co. having plans prepared by H. M. Reynolds, Orlando Bank & Trust Bldg., 125 x 140 ft. factory, and 47 x 125 ft. warehouse, concrete and steel. $115,000.

Ala., Andalusia — FACTORY — J. C. Scherf, treas. Anadala Co., Inc., soon takes bids 3 story and basement, 50 x 125 ft. factory. Private plans.

O., Cleveland—CEMENT PLANT—Universal Portland Cement Co., 210 La Salle St., Chicago, Ill., purchased site and plans cement plant, along Cuyahoga River, here. $2,000,000.

O., Cleveland — FACTORY — J. Roemer, Rose Bldg., having plans prepared 4 story and basement, 81 x 130 ft., rein.-con. and brick, East 22nd St. $150,000. Engineer and architect not announced.

O., Cleveland—LAUNDRY—Progressive Laundry Co., S. Kohner, pres., 13402 Glenside Ave., had plans prepared by C. Steiner, 5114 Hamm Ave., 1 story, 110 x 116 ft., brick and steel, Glenside Rd. $40,000.

O., Mt. Sterling—FACTORY—Mt. Sterling Canning Co., c/o B. H. Schadel and D. S. Cochran, Washington C. H. (owners), plan factory, here. $60,000-$75,000.

O., Willoughby—ICE PLANT—City Ice & Fuel Co., 1935 Euclid Ave., Cleveland, making plans 2 story and basement ice plant, here. $85,000. Private plans.

O., Zanesville—PLANT—Federal Radiator Co. having plans prepared 42 x 300 ft., brick and steel addition. $125,000. Private plans.

Ill., Chicago—FACTORY—H. S. Lovejoy, Janesville, Wis., having preliminary plans prepared by J. B. Cowning Eng. Co., 30 North La Salle St., 6 story, 120 x 185 ft., brick and timber, Elston Ave. and West Division St. $400,000.

Ill., Jacksonville—POWER PLANT—City had plans prepared electric power plant, two 500 kw. turbo-generators and condensers, 300 hp. reservoir and stoker, poles, lines, etc. $100,000. H. L. Caldwell, Jacksonville, engr.

Okla., Okmulgee—PLANT—Independent Oil & Gas Co., c/o Commerce Investment Co., having preliminary plans prepared enlarging plant, incl. 1,000 bbl. Jenkins cracking still and contact filtering system, etc. $150,000.

Okla., Talihina—POWER PLANT—McCurtain Light & Power Co. plans light and power plant. $40,000.

Okla., Woodward — CREAMERY — Armor & Co., 208 S. La Salle St., Chicago, Ill., having preliminary plans prepared 2 story and basement, 80 x 165 ft., brick, plain foundation, Railroad St. $150,000. Engineer and architect not announced.

California—POWER PLANT—See "Unclassified."

Calif., Los Angeles—MILL—Los Angeles Planing Mill Co., 1800 Industrial St., plans rebuilding plant, recently destroyed by fire. $200,000 loss.

Calif., Marysville — SUB-STATION — Pacific Gas & Electric Co., 245 Market St., San Francisco, plans sub-station near Barry St. $60,000. Eng. Dept. of Owners, engrs.

Calif., Petaluma—MACHINE SHOP and GARAGE—Murphy Chevrolet Co. having plans prepared by B. Jones, Washington and Liberty Sts., 1 story, 50 x 175 ft., timber and galvanized iron, Main St.

Calif., San Francisco — PUBLISHING PLANT, etc.—Traung Label & Lithograph Co., 962 Battery St., having plans prepared 2 story and basement, rein.-con., Pacific St. near Battery St. $160,000. Couchot & Rosenwald, 60 Sansome St., engrs.

Quebec—POWER PLANT—International Paper Co., 100 East 42nd St., New York City, plans 150,000 hp. plant near Farmers, here.

Que., Shawinigan Falls—PAPER MILL—St. Maurice Valley Corp. plans enlarging with 2 units paper mill, here. $2,500,000. H. Sorguis, Shawinigan Falls, engr.

Que., Shawinigan Falls—POWER PLANT—Shawinigan Water & Power Co., Ltd., plans 1 unit electric power plant and renewing 14 ft. penstock. $2,000,000. R. C. Lindsay, engr.

Que., Ste. Diduce—POWER PLANT—O. Dupesue, et al., Maisonneure, plans 100,000 hp. plant at Ste. Ursule Falls and Lauzon Falls, on River Maskinonge, here. $150,000.

BIDS DESIRED

Mass., Somerville (Boston P. O.) — PLANT—See "Contracts Awarded."

N. J., Newark—VARNISH FACTORY—Feb. 5, by Fletcher-Thompson Co., engrs. and archts., 350 Madison Ave., New York City, 3 story and basement, 60 x 220 ft., Railroad Ave., here, for Keystone Varnish Co., 71 Otsego St., Brooklyn, N. Y. $300,000.

Pa., Phila. — MANUFACTURING — See "Contracts Awarded."

O., Euclid — STEEL FABRICATING PLANT—See "Contracts Awarded."

O., Gallipolis—POWER HOUSE—Feb. 18, by Dept. Welfare, 9th and Oak Sts., Columbus, 1 story, 38 x 103 ft., brick and concrete, for State Institution for Epileptics, here. $65,000. H. H. Briggs, Ohio Hartman Bldg., Columbus, engr.

Ill., Chicago — FACTORY — Feb. 6, by F. A. Randall, structural engr., 160 North La Salle St., 2 story, 75 x 100 ft., brick and timber addition, 1650 Walnut St., for Jewell Electrical Instrument Co., 1650 Walnut St. $40,000.

Ia., Iowa City — POWER and BOILER HOUSE—Feb. 16, by Iowa State Bd. Educ., W. H. Gemmill, secy., 111 ft. unit generator 42 x 42 ft. high, 112 ft. boiler unit 42 x 62 ft. above grade, also coal and ash unit 40 x 58 ft., 74 ft. above grade, etc. $125,000. Proudfoot, Rawson & Souer, 810 Hubbell Bldg., Des Moines, archts.

Ark., Searcy—COTTON COMPRESS—See "Contracts Awarded."

CONTRACTS AWARDED

Mass., Medford (br. Boston)—FACTORY, BLACKSMITH SHOP and BOILER HOUSE—W. F. Lacey & Sons, Mystic Ave., 1 and 2 story, 65 x 100 ft., rein.-con. and brick, plain foundation, Mystic Ave., to Fra[illegible] Bros., 30 Mystic Ave. Archts. est. $4[illegible]

Mass., Somerville—PLANT—Bost[illegible] & Maine R.R., North Sta., Boston, F. A. [illegible]rill, ch. engr., will build coke reclaim[illegible] plant, brick and steel, Eastern S[illegible] here. To exceed $40,000. Work will be done by separate contracts. Private plans.

Conn., Bridgeport — FACTORY — [illegible] Chain Co., State St., brick and steel addition, State St. and Mountain Grove Av[illegible] Aberthaw Constr. Co., 27 School St., Boston. Archts. est. $50,000.

N. J., Newark—GARAGE—L. Singer, [illegible] Brunswick St., 1 story, rein.-con., brick and steel, plain foundation, South St., to Standard Constr. Co., 972 Broad St. Archts. est. $60,000.

Pa., Chester — PLANT — B. R. Brown, constr. engr. Dept. Ford Motor Co., Highland Park, Mich., 1 and 2 story, 455 x [illegible] ft. assembling building, 1 story, 63 x [illegible] ft. power house, 1 story, 74 x 113 ft. car delivery, 1 story, 18 x 41 ft. pumphouse, 1 story, 60 x 113 ft. oil house and oil storage tanks, all rein.-con., brick and steel, wood pile foundations, Front St. and Delaware River, here, to Rust Eng. Co., 311 Ross St., Pittsburgh. Archts. est. $2,000,000. Noted Nov. 12.

Pa., Phila.—MANUFACTURING—J. S. Long, engr., 1619 North Robinson St., will build 2 story and basement, 60 x 216 ft., brick and steel, plain foundation, Grant and Venango Sts., for J. M. Kennedy, Jr. Real Estate, 4068 Van Pelt St. Engrs. est. $75,000. Work will be done by separate contracts.

Pa., Phila.—BRUSH MANUFACTURING—Elder & Jenks, Lancaster Ave. and Vine St., brick and steel, plain foundation, to J. S. Sunsohn Co., c/o owner. Archts. est. $60,000.

Pa., Pittsburgh — DRY CLEANING PLANT—Crandall McKenzie Co., Spencer St., general contract 2 story, basement and sub-basement, 31 x 79 ft., Spencer St., to Conley & DeMey, 120 North Highland Ave. Archts. est. $40,000. Noted Jan. 21.

Pa., Warren—FURNITURE FACTORY—Paramount Furniture Co., general contract 2 story, 80 x 220 ft., and 80 x 300 ft., brick and steel, to G. Brown, 7 Canton St.

Tenn., Nashville—PLANT—Victor Chemical Co., 4th and 1st Natl. Bank Bldg., R. P. Gates, supt. (1st unit) brick chemical plant, Centennial Blvd., to Foster-Creighton Co., 4th and 1st Natl. Bank Bldg., $50,000. Noted Jan. 28.

O., Cleveland — AUTO PAINT SHOP—Frankel Bros. Realty Co., 1520 Discount Bldg., 1 story, 57 x 90 x 139 ft., brick and steel, 1960 East 65th St., to M. Mikkelson, 10000 Euclid Bldg. Archts. est. $50,000.

O., Cleveland—FACTORY—Eclipse Electrotype & Engraving Co., F. H. Clark, pres., 2041 East 3rd St., 1 and 2 story, 67 x 160 ft., brick and steel, 1547 Superior Ave., to H. K. Ferguson Co., 4900 Euclid Ave. Archts. est. $60,000.

O., Euclid — STEEL FABRICATING PLANT—Austin Co., W. J. Austin, pres., 16,112 Euclid Ave., East Cleveland, will build 1 story, 75 x 300 ft., brick and steel, Bliss St., by day labor. $50,000. Private plans.

Mich., West Detroit (mail Detroit) — POWER PLANT—Michigan Central R.R. retained Battey & Kipp, engrs., 123 West Madison St., Chicago, Ill., to design and construct power plant.

Ill., Chicago—STORAGE and SERVICE—G. C. Nimmons & Co., archts., 122 South Michigan Ave., general contract (1st unit) 240 x 928 ft., West 22nd and Throop Sts., to J. W. Snyder Co., 307 North Michigan Ave., for Commonwealth-Edison Co., 72 West Adams St. Archts. est. approximately $1,000,000. Noted Dec. 17.

Wis., Racine—FOUNDRY—Walker Mfg. Co., Hamilton St. and Michigan Blvd., 1 story, 92 x 121 ft., brick and steel addition, plain foundation, to C. O. Johnson, 224 Lafayette Ave. Engrs. est. $40,000.

Wis., West Allis — FOUNDRY — Wehr Steel Co., 45th and Gordon Aves., 1 story, 160 x 200 ft., brick and steel, plain foundation, here, to Klug & Smith, 69 Wisconsin St., Milwaukee.

Kan., Topeka—COLD STORAGE PLANT—Seymour Packing Co., 200 North Kansas St., 5 story and basement, 50 x 150 ft., rein.-con. and brick, to F. M. Spencer & Son, 1805 Harrison St.

Mo., St. Louis—FACTORY—A-C Brake Shop, 2739 Locust Blvd., 1 story and basement, 125 x 135 ft., rein.-con., brick and stone, Locust Blvd., to Natl. Refrigerators Co., 827 Koelb St.

Ark., Searcy—COTTON COMPRESS—Searcy Compress Co., S. W. Sanford, pres., will build 1 story, 200 x 320 ft., timber addition, plain foundation, increasing capacity to 20,000 bales, by day labor. Engineer and architect not announced.

See proposal advertisements on page 155, Advertising Section.

Buildings—Industrial (Continued)

Calif., Berkeley—FACTORY—Hall-Scott Motor Car Co., 5th and Snyder Sts., Oakland, 1 story, steel and corrugated iron, 5th and Snyder Sts., to Austin & Co. of California, 244 Kearny St., San Francisco, to exceed $40,000.

Calif., Oakland — FACTORY — Electric Products Crop., 1212 Mission St., San Francisco, 1 story electric sign factory, brick and steel, 30th and Myrtle Sts., to Austin & Co. of California, 244 Kearny St., San Francisco, to exceed $40,000.

Calif., San Francisco—FACTORY—Herman Safe Co., 216 Fremont St., 1 and 2 story, 137 x 137 ft., rein.-con., wood pile foundation, Main and Howard Sts., to Cahill Bros., 55 New Montgomery St., $86,-975. Noted Dec. 3.

Buildings—Commercial

PROPOSED WORK

Mass., Attleboro — THEATRE — Community Theatres, Inc., M. Kauffer, 171 Westminster St., plans theatre. $250,000. Engineer and architect not selected.

Mass., Belmont (br. Boston)—STORE and OFFICE—C. Toomey, Fritz-Carlton Hotel, Boston, having plans prepared by Haven & Hoyt, 45 Bromfield St., Boston, 2 story and basement, brick, Leonard St. $150,000.

Mass., Somerville (Boston P. O.)—OFFICE and WAREHOUSE — First Natl. Stores, Inc., c/o A. O'Keefe, having preliminary plans prepared by Monks & Johnson, engrs. and archts., 99 Chauncy St., Boston, brick and steel, Mystic and Middlesex Aves. $2,000,000.

R. I., Pawtucket—OFFICE—Owner, c/o W. Walker & Son, archts., 49 Weybosset St., Providence, plans brick and steel, Main St. $150,000.

R. I., Providence — STATE HOUSE — State House Comn., J. S. Holbrook, chn., had plans prepared by Jackson, Robertson & Adams, 1216 Turks Head Bldg., 3 story and basement, 60 x 210 ft. with 60 x 122 ft. wing, rein.-con., brick and steel, Smith and Davis Sts. $750,000. Noted June 11.

R. I., Providence — THEATRE, STORE and OFFICE—J. Hill Pierce, Inc., archts., 30 Allens Ave., soon lets contract superstructure 2 story, 60 x 95 ft. rein.-con. and steel, Bway. and Westminster St., for J. Conn, City Theatre, Weybosset St. Total $500,000. Noted Dec. 10.

Conn., Hartford — APARTMENT and GARAGE—G. W. Morris (in charge), 804 Farmington Ave., having plans prepared 10 story, 90 x 150 ft., stone, steel and terra cotta, Farmington Ave. $1,500,000. Engineer and architect not announced.

Conn., Middletown — OFFICE — P. J. Stueck, 460 Main St., having plans prepared by Ward & Kerrigan, 247 Park Ave., New York City, 50 x 100 ft., brick and terra cotta, Main St. $150,000.

Conn., New Britain—BANK—Commercial Trust Co., J. C. Loomis, pres., 274 Main St., had plans prepared by Hopkins & Dentz, 451 Lexington Ave., New York City, 6 story, 54 x 144 ft., brick, limestone and marble, West Main St. $500,000. Noted Aug. 28, 1924.

Conn., Wallingford—ADMINISTRATION—Gaylord Sanitorium, Cook Hill, takes bids about Mar. 1, 3 story, 50 x 125 ft., brick, tile and stucco, Cook Hill. $150,000. J. D. Kelly, 39 Center St., New Haven, archt. Noted June 25.

N. Y., Brooklyn—APARTMENT—Turner Building Co., S. S. Turner, pres., 50 Court St., plans 15 story, brick, steel and stone, plain foundation, Eastern Parkway, Underhill Ave. and Lincoln Pl. Engineer and architect not selected.

N. Y., Buffalo—OFFICE—W. J. Conners, 250 Main St., plans office building, Niagara Sq. $1,000,000.

N. Y., Larchmont — APARTMENT — F. Alexe, c/o Walker & Gillette, engrs. and archts., 128 East 37th St., New York City, having plans prepared 5 unit, 3 and 4 story, brick, steel and stone, plain foundation, 129 Boston Post Rd., here. $800,000.

N. Y., New York—OFFICE—Madison Ave. & 34th St. Corp., c/o H. I. Oser, engr. and archt., 1440 Bway., having plans prepared 23 story, 113 x 115 ft., brick, steel and stone, plain foundation, Madison Ave. $1,000,000.

N. Y., New York—THEATRE—Oltarsh Building Co., 36 West 44th St., having plans prepared by H. C. Severance, 36 West 44th St., brick, steel and stone, plain foundation, 2nd Ave. and 4th St. $1,000,000. D. M. Oltarsh, 36 West 44th St., engr.

N. Y., Southold—BANK—Southold Savings Bank having plans prepared by Francisco & Jacobus, engrs. and archts., 511 5th Ave., New York City, brick, steel and stone, plain foundation. $200,000.

N. J., Asbury Park — CONVENTION HALL—Bd. City Comrs., Main St. and Bangs Ave., receives tentative plans and sketches on or before Feb. 15, convention hall, theatre and amusement pier. $1,500,-000. Warren & Wetmore, 16 East 47th St., New York City, consult. archts. Noted Nov. 19.

N. J., Newark—HOSPITAL—Beth Israel Hospital, 651 High St., soon takes bids group brick, steel and stone hospital buildings, plain foundations, Lyons Ave. $2,000,-000. F. Grad, 1023 Broad St., engr. and archt. Noted Mar. 26.

N. J., Newark—HOSPITAL—F. Grad, archt., 1023 Broad St. soon lets contract 7 story and basement, 400 x 450 ft., rein.-con. and steel, plain foundation, Lyons Ave., for Beth Israel Hospital. $2,000,000.

N. J., Ridgewood—MUNICIPAL—Village having plans prepared by R. M. Hood, 40 West 40th St., New York City, probably 3 story and basement municipal building. $250,000.

Pa., Lewistown — OPERA HOUSE and LODGE—Lewistown Masonic Lodge, D. E. Miller, secy., 168 Pannebaker Ave., receiving competitive sketches, 3 story and basement, 100 x 120 ft., steel, concrete and limestone, Market St. $500,000.

Pa., Monongahela — BANK — Morgan French & Co., 19 West 44th St., New York City, soon let contract 3 story and basement, 60 x 80 ft., Main St., for Monongahela City Trust Co. $150,000. Noted Oct. 15.

Pa., Phila.—BANK and APARTMENT—Tioga Trust Co., 18th and Tioga Sts., having plans prepared by W. H. Lee, 1505 Race St., 9 story and basement, 50 x 150 ft., rein.-con., brick and steel, plain foundation, 17th and Tioga Sts. $600,000.

Pa., Phila. — STORAGE — W. E. Hance, archt., Hollyoak, Del. soon lets contract 3 story and basement, 150 x 230 ft., rein.-con. and brick, plain foundation, 5744-48 Vine St., for Security Storage Co., 5748 Vine St. $500,000.

Pa., Pittsburgh—STORE and OFFICE—O. Jubelier and M. Stambach, 709 Penn Ave., having plans prepared by Sharose & Freedman, Berger Bldg., 7 story and basement, 45 x 120 ft., brick and steel, Penn Ave. $200,000.

Pa., Williamsport—LODGE—Lodge 970 F. O. Eagles, 3rd and Basin Sts., M. H. Harmen, chn. building com., plans 2 story and basement, 80 x 100 ft., brick and steel addition, 3rd St. $150,000. Engineer and architect not selected.

Pa., Williamsport—THEATRE—Lycoming Amusement Co., c/o W. P. Wilson, treas. and genl. mgr., plans 2 story and basement, 48 x 160 ft., steel, brick and rein.-con., Pine St. $150,000. Engineer and architect not selected.

Md., Baltimore — APARTMENT and STORE—Owner, H. D. Caplan, agt., Munsey Bldg., having plans prepared by J. Freund, 1307 St. Paul St., 4 story and basement, 60 x 185 ft., brick and steel, plain foundation, Charles St. near Preston St. $150,000.

Md., Baltimore — HOME — Bureau of Catholic Charities, 403 North Charles St., E. L. Leonard, plans brick and steel, plain foundation, Wilkens Ave. $500,000. Engineer and architect not selected.

Md., Baltimore—INDUSTRIAL HOME—Salvation Army, Sharp and Montgomery Sts., had plans prepared by H. D. Chase, 120 West 14th St., New York City, 3 story, 80 x 100 ft., brick and steel, plain foundation, Fremont Ave., Brisco and Henrietta Sts. $150,000.

D. C., Wash.—BANK—Bank of Commerce & Savings, 7th and E Sts. N. W., retained Milburn, Heister & Co., archts., to prepare plans and take bids about Mar. 10, remodeling present building.

Ga., Atlanta—DOCTORS—Syndicate of Doctors having plans prepared by G. L. Preacher, Wynne Claughton Bldg., 12 story, 60 x 150 ft., Peachtree St. between Porter Pl. and Alexander St. $1,000,000.

Fla., Ft. Myers—THEATRE—E. Riley having sketches made by B. S. D. Martin, Ft. Myers, theatre, 1,700 seating capacity. $400,000.

Fla., Miami—APARTMENT—Davenport & Rich Investment Co. had plans prepared by Stuckert Co., 1420 Chestnut St., Phila., Pa., 15 story and basement, 96 x 190 ft., steel and tile, plain foundation, Bay Shore Ave. and 34th St. $3,000,000. Noted Jan. 28.

Fla., Miami — HOTEL — Luxor Constr. Co., c/o J. J. Jacobs and J. J. Schlesinger, 219 Northeast 1st Ave., plans Luxor Arms Apartment Hotel, 15 story, 100 x 100 ft., fireproof, 3rd St. and 20th Ave. $1,000,000.

Fla., Tampa—OFFICE—Peninsular Telephone Co., Zack and Morgan Sts., had plans prepared by M. L. Elliott, Citizens Bank Bldg., 12 story, 50 x 100 ft. addition. $400,000.

Fla., Tampa — STORE and OFFICE — Wolf Bros., Franklin St., purchased site and plan 6 story, 50 x 100 ft., Florida and Zack Sts.

La., New Orleans—HOTEL—Syndicate, c/o A. F. Commagere, member, 910 Gravier St., having plans prepared by S. S. Joy, 2001 West Pershing Rd., Chicago, Ill., and W. E. Spink, associated archt., Canal-Commercial Bldg., and takes bids probably in July, Tulane Hotel, 18 story, University Pl. and Common St.

Tenn., Murfreesboro—HOSPITAL—City and Rutherford Co. plan 48 bed hospital, North University St. $150,000.

O., Akron—AUTO SALES and GARAGE—North High St. Garage, W. Piedmore, pres., having plans prepared by F. F. Hodges, Hickox Bldg., 2 story and basement, 65 x 107 ft., brick, steel and concrete auto sales and garage. $150,000.

O., Cleveland — COMMERCIAL and APARTMENT — J. Kondash, 3436 East 153rd St., had plans prepared 3 story and basement, 50 x 140 ft., brick and steel, 8632 Buckeye Rd. $150,000. Private plans.

O., Columbus — HORTICULTURAL and AGRICULTURAL—Ohio Dept. Agriculture, State House, having plans prepared by H. H. Briggs, Ohio Hartman Bldg., part 1 and part 2 story, 98 x 300 ft., brick and concrete, Ohio State Fair Grounds. $165,000.

O., Columbus—Y. W. C. A., G. T. Spahr, chn. Finance Com., having sketches made 6 to 10 story, on 62½ x 187½ ft. site, 65 South 3rd St. $400,000-$500,000.

O., Zanesville—Y. W. C. A., c/o L. McCloud, having preliminary plans prepared by Howell & Thomas, 4500 Euclid Ave., Cleveland, 2 story and basement, brick, steel and concrete, incl. swimming pool. $150,000.

Mich., Detroit — GARAGE — Chevrolet Motor Co., 3044 West Grand Blvd., had plans prepared by A. Kahn, 1000 Marquette Bldg., 3 story and basement, 150 x 150 ft., rein.-con. and brick, plain foundation, Amsterdam Ave. $160,000.

Mich., Detroit — OFFICE — Cass Lafayette Building Co., C. J. Lingeman, Real Estate Exch. Bldg., having plans prepared by C. E. Schley, 1121 Lafayette Bldg., 26 story and basement, approximately 40 x 100 ft., rein.-con., brick and steel, caisson foundation, Cass Ave. and Lafayette Blvd. $1,500,000.

Mich., Detroit—OFFICE—Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., soon lets contract 4 story and basement, rein.-con. and brick, Atwater St., for Park Davis & Co., 2951 Atwater St. $150,000. Noted Nov. 12.

Mich., Detroit—THEATRE and OFFICE—W. Fox Film Corp., Fox Washington Theatre, having plans prepared by C. H. Crane, 542 Griswold St., 12 story and basement, 70 x 150 ft., rein.-con., brick and steel, plain foundation, Woodward Ave. $2,000,000.

Ill., Chicago—APARTMENT—Hooper & Janusch, archts., 879 North State St., takes bids about Feb. 15, 16 story and basement, 50 x 140 ft., rein.-con., brick and steel, Cass and Delaware Sts., for C. W. Morris, 111 West Washington St. $1,750,000.

Ill., Chicago—APARTMENT—Universal Constr. Co., 139 North Clark St., takes bids about Feb. 15, 7 story, 51 x 161 ft., rein.-con. and brick, 1337 Birchwood Ave. $250,000. M. L. Bein, 64 West Randolph St., archt.

Ill., Chicago — APARTMENT HOTEL — A. H. Quitsow, archt., 11 South La Salle St., takes bids about Feb. 15, 6 story and basement, 48 x 109 ft., rein.-con. and brick, Lincoln and Ogden Aves., for Shoenlank & Kirschner, Sheridan Trust Bank Bldg. $250,000.

Ill., Chicago — BANK — W. H. Lantz, archt., 806 West 79th St., soon takes bids 3 story, 50 x 117 ft., rein.-con., brick and stone, South Halsted St. between 78th and 79th Sts., for Mutual Natl. Bank, 7829 South Halsted St. $250,000.

Ill., Chicago—CLUB—Midland Club, 25 East Jackson Blvd., having plans prepared by K. M. Vitzthum & Co., 307 North Michigan Ave., 26 story, 90 x 189 ft., rein.-con., brick, steel and stone, 168-178 West Adams St. $5,000,000. Noted Sept. 24.

Ill., Chicago—STORE and APARTMENT C. H. Lenske, arch., 3755 Irving Park Blvd. soon lets contract 4 story, 87 x 334 ft. brick and terra cotta, Hamlin and Park Aves., for H. Shukas, 3801 West Lake St. $225,000.

Ill., Decatur—TEMPLE—Masonic Temple Assn. having plans prepared by Holabird & Roche, 104 South Michigan Ave., Chicago, and takes bids in March, rein.-con., brick and stone, plain foundation, William and Church Sts. $550,000. Noted July 16.

See proposal advertisements on page 155, Advertising Section.

Buildings—Commercial (Continued)

Ill., Downers Grove—THEATRE, STORE and APARTMENT—E. F. Behrens, archt., 605 North Michigan Ave., Chicago, preparing plans and takes bids about Feb. 15, 2 story, 114 x 207 ft., brick and terra cotta, Main St., here, for V. T. Lynch, 910 South Michigan Ave., Chicago. $500,000.

Ill., Evanston — STORE, APARTMENT and GARAGE—J. Loebl & N. J. Schlossman, archts., 612 North Michigan Ave., takes bids about Feb. 15, 3 story, 100 x 160 ft., and 4 story, 60 x 160 ft., rein.-con., brick and stone, Main St. and Elmwood Ave., for P. Finley, 111 West Washington St. $700,000.

Ill., Peoria — COLISEUM — City plans election in spring $2,000,000 bonds, coliseum. W. Mueller, mayor. Engineer and architect not selected.

Wis., Milwaukee — APARTMENT and STORE—I. Miller, 114 Grand Ave., plans 8 story and basement, brick and concrete, plain foundation, Wells and 13th Sts. $500,000. Engineer and architect not selected.

Ia., Cedar Rapids — MEMORIAL — City takes bids in spring rein.-con. stone and terra cotta memorial building. $800,000. Palmer & Hornbostle, Pittsburgh, Pa., archt. H. E. Hunter, 503 Security Bldg., and W. J. Brown, Bever Bldg., associated archts. Noted June 25.

Ia., Des Moines—LABOR TEMPLE—Labor Temple Assn. having preliminary plans prepared by Tinsley & McBroom, 601 Hubbell Bldg., 3 and 4 story and basement, 50 x 190 ft., rein.-con., brick and stone, 10th and Woodland Sts.

Minn., St. Paul—HOTEL—Arcade Investment Co., H. Lowry, pres., 600 Temple Court, Minneapolis, having plans prepared by L. Bassindale, 485 Endicott Bldg., 9 story and basement, rein.-con., brick and terra cotta or stone, 4th and Wabasha Sts. $1,000,000.

Neb., Hastings—THEATRE—Hostettler Amusement Co., 418 Brandise Bldg., Omaha, having plans prepared by J. Eberson Co., 212 East Superior St., Chicago, Ill., theatre, here. $200,000.

Neb., Omaha—BANK—Latenser & Sons, archts., Peters Trust Bldg., preparing plans and take bids about Apr. 1, probably 7 story and basement, 69 x 132 ft., brick and stone, 19th and Farnum Sts., for Union State Bank, 16th and Dodge Sts. $700,000. Noted Nov. 12.

Neb., Omaha — HOSPITAL — Methodist Hospital, 36th and Cumings Sts., having plans prepared by G. B. Prinz, 1037 Omaha Natl. Bank Bldg., 3 or more story and basement, brick addition. $350,000.

Neb., Omaha — SERVICE and WAREHOUSE—Metropolitan Utilities Dist., City Hall, having plans prepared by J. Latenser & Sons, Peters Trust Bldg., and takes bids about Mar. 15, 3 story and basement, 138 x 170 ft., 20th and Center Sts. $225,000. T. A. Leisen, City Hall, engr.

Neb., Omaha—STORE—Hayden Bros., 16th and Dodge Sts., J. Madden, pres., having plans prepared remodeling 4 story and basement department store, 16th and Dodge Sts. $250,000. Engineer and architect's names withheld. Noted Nov. 12.

Okla., Tulsa—STORE and OFFICE—Tulsa Building & Loan Assn., c/o C. Bruce, 4 East 5th St., having preliminary plans prepared by L. I. Shumway, New Wright Bldg., 9 story and basement, 40 x 80 ft., rein.-con., brick, stone and granite, plain foundation. $300,000.

Colo., La Junta — HOSPITAL — Mennonite Bd. of Missions, having plans prepared by Schmidt, Boucher & Overstreet, Natl. Bank Bldg., Wichita, Kan., for hospital. $150,000.

Calif., Alhambra — HOTEL, APARTMENT and STORE—Alhambra Community Corp., had plans revised by Starrett & Payne, 426 Western Mutual Life Bldg., Los Angeles, 5 story and basement, 90 x 171 ft., tile and rein.-con., South Garfield Ave. and 1st St. $300,000. Noted Oct. 29.

Calif., Chico — AUDITORIUM — Amer. Legion of Chico, plans 2 story, fireproof Veterans' Memorial Auditorium. $150,000. Butte Co. appropriated $75,000 toward cost.

Calif., Davis—AGRICULTURAL ENGINEERING — Regents University of California, Berkeley, plans 2 story agricultural engineering building, University Farm, here. $150,000.

Calif., Fresno—OFFICE and STORE—M. R. Craycroft, 1632 Van Ness Ave., having plans prepared by E. J. Kump Co., Rowell Bldg., 6 story, rein.-con., brick, terra cotta, and marble addition, Merced and Fulton Sts. $400,000.

Calif., Los Angeles—APARTMENT—Los Angeles Housing Corp., Black Bldg., having plans prepared by E. Van Den Hoven, Black Bldg., 6 story and basement, rein.-con., Alvarado Court. $250,000.

Calif., Los Angeles — APARTMENT — L. A. Smith, archt., Film Exch. Bldg., plans 5 story and basement, 125 x 175 ft., brick and steel, Cherokee Ave. $200,000. Owner's name withheld.

Calif., Los Angeles—APARTMENT and STORE—J. W. Sappington, c/o R. Nicolais, archt., 686½ South Vermont Ave., having preliminary plans prepared 12 story and basement, 100 x 150 ft., rein.-con. apartment and store. To exceed $750,000.

Calif., Los Angeles—OFFICE—Los Angeles Housing Corp., Black Bldg., having plans prepared by E. Van Den Hoven, Black Bldg., 13 story and basement, 60 x 115 ft., rein.-con., Main St.

Calif., Los Angeles—OFFICE—Realty & Finance Co., Lincoln Bldg., having plans prepared by Curlett & Beelman, Union Bank Bldg., 12 story, rein.-con., on 82 x 128 ft. site, 7th St. between Hope and Flower Sts. To exceed $150,000.

Calif., Los Angeles — STORE and OFFICE—Sun Realty & Finance Corp., Lincoln Bldg., having plans prepared by Curlett & Beelman, Union Bank Bldg., 12 story and basement, 82 x 125 ft., fireproof, 7th St. near Hope St.

Calif., Oakland—HOSPITAL—Baby Hospital of Alameda Co., G. C. Jensen, pres., 381 Palm St., having plans prepared by E. W. Cannon, 1924 Bway., 2 story, brick and steel, 54th and Dover Sts. $250,000.

Calif., Sacramento — STORE — Eastern Outfitting Co., 1024 J St., plans 2 story, rein.-con., J St. near 11th St. $150,000.

Calif., Sacramento — STORE — L. R. Laurie, 315 Montgomery St., San Francisco, having plans prepared by O'Brien Bros., 315 Montgomery St., San Francisco, 3 story and basement, rein.-con., J St. between 11th and 12th Sts., here. $250,000.

Calif., San Francisco—APARTMENT—P. Donahue, c/o J. C. Hladik, archt., Monadnock Bldg., having plans prepared 5 story and basement, rein.-con., Gough and Page Sts. $150,000.

Calif., San Francisco—APARTMENT—B. Sassio having plans prepared by J. C. Hladik, Monadnock Bldg., 6 story and basement, rein.-con., Fell St. near Octavia St. $150,000.

Calif., San Francisco—STORE and LOFT—Amer. Concrete Co., Humboldt Bank Bldg., plans 2 story, rein.-con., 12th and Howard Sts. $150,000. Eng. Dept. of Owners, engrs.

Calif., Santa Monica—EXCHANGE—Santa Monica Home Telephone Co., having plans prepared by M. Sasso, I. W. Hellman Bldg., Los Angeles, 6 story and basement, brick, steel and rein.-con. phone exchange. $200,000.

Ont., Ottawa—HOTEL—Wiggins Hotel Co., having plans prepared by W. C. Beathie, 66 Craig St., 10 story and 2 basements, 66 x 198 ft. and 66 x 99 ft., rein.-con., brick and stone, plain foundation, Albert St. $1,000,000.

Ont., Ottawa—HOTEL—Noffke Morni & Sylvester, archts., Central Chambers, Elgin St., soon take bids 11 story and 2 basements, 132 x 198 ft., rien.-con. and brick, plain foundation, Metcalf St. $1,500,000. Owner's name withheld.

BIDS DESIRED

Mass., Brighton (Boston P. O.) — APARTMENTS—See "Contracts Awarded."

Mass., Mattapan (Boston P. O.) — APARTMENT—See "Contracts Awarded."

Mass., Roxbury (Boston P. O.)—APARTMENT—See "Contracts Awarded."

Conn., Bridgeport—APARTMENT—See "Contracts Awarded."

Conn., New London—APARTMENT and STORE—C. E. Schall, 849 Pequot Ave., taking bids 2 story, brick and steel, Montauk Ave. $150,000. Bilderbeck & Langdon, State St., archts. Noted Jan. 28.

N. Y., Brooklyn — HOTEL — See "Contracts Awarded."

N. Y., New York — APARTMENT — See "Contracts Awarded."

N. Y., New York—OFFICE—See "Contracts Awarded."

Pa., Phila.—APARTMENT—L. B. Raidman, Fox Bldg., taking sub-bids 4 story and basement, 151 x 156 ft., brick and steel, plain foundation, Wayne and Julpehocken Sts. $500,000. S. Kaplan, 10 South 18th St., archt.

Pa., Phila.—SERVICE and GARAGE—Feb. 9, by Ballinger Co., archts., 12th and Chestnut Sts., 4 story and basement, 68 x 239 ft., rein.-con. and brick, plain foundation, 1515 Broad St., for A. E. Albins, c/o architects. $250,000.

Pa., Williamsport—LODGE—Mar. 1, by Building Com. Lodge 173 B. P. O. E., 4th and State Sts., H. R. Davis, exalted ruler, 5 story and basement, 60 x 192 ft., rein.-con., steel, red brick and Indiania limestone, 4th St. $250,000. F. A. Rianhard, Masonic Temple, archt.

D. C., Wash. — BANK and OFFICE — Coolidge, Shepley, Bulfinch & Abbott, archts., 122 Ames Bldg., Boston, Mass., taking bids bank and office building, 14th and New York Aves., here, for City Central Corp. of Boston. $2,000,000.

D. C., Wash.—ORPHAN ASYLUM—Feb. 15, by Milburn-Heister Co, archts., 710 14th St. N. W., orphanage for St. Josephs Orphan Asylum. $250,000. Noted Jan. 28.

Miss., Clarksdale — WAREROOM — See "Contracts Awarded."

Mich., Jackson — OFFICE — A. Kahn, archt., 1000 Marquette Bldg., Detroit, taking bids 9 story and basement, 69 x 126 ft. and 50 x 133 ft., rein.-con. and brick, plain and wood pile foundations, Main St., here, for Consumers Power Co. Noted Jan. 14, 1925.

Ill., Chicago — APARTMENT — B. L. Steif & Co., archts., 307 North Michigan Ave., taking bids 8 story, 94 x 150 ft., and 50 x 143 ft., rein.-con. and brick, Loyola Ave., for H. Emerman, 4750 Sheridan Rd. $600,000.

Wis., Fond du Lac—HOTEL—Feb. 8, by M. Tullgren & Sons, archts., 9 Waverly Pl., Milwaukee, 8 story and basement, 50 x 85 ft., brick and concrete addition to Retlaw Hotel, here, for Hotel Wisconsin Realty Co., 86 Michigan St., Milwaukee. $200,000. Noted Nov. 12.

Wis., Green Bay—HOTEL—Feb. 8, by M. Tullgren & Sons, 9 Waverly Pl., Milwaukee, 8 story and basement, 48 x 62 ft., rein.-con. and brick addition to Northland Hotel, here, for Hotel Wisconsin Realty Co., 86 Michigan St., Milwaukee. $200,000.

Wis., Kenosha — APARTMENT and STORE — L. Plous, 152 Market St. and A. Epstein, archt., 2001 West Pershing Rd., Chicago, Ill., taking bids 3 story and basement, 62 x 125 ft., rein.-con., brick and terra cotta, plain foundation, Prairie St. $150,000. Noted Dec. 31.

Wis., Milwaukee—THEATRE—C. W. and G. L. Rapp, archts., 190 North State St., Chicago, Ill., taking bids and open same about Feb. 10, 1 and 2 story and basement, 99 x 290 ft., brick, concrete and terra cotta, plain foundation, 49th St. and Lisbon Ave., for Saxe Amusement Enterprises, 530 Grand Ave. $300,000. Noted Oct. 8.

Ia., Bettendorf—SANITARIUM—Feb. 27, by Grand Lodge of Iowa A. F. and A. M., c/o F. Moses, secy., Cedar Rapids, 2 story and basement, 38 x 116 ft., and 38 x 150 ft., rein.-con., brick and stone addition. $150,000. Beuttler & Arnold, 405 Grain Exch. Bldg., Sioux City, and E. Holbrook, 51 Whitaker St., Davenport, archts. Noted Jan. 14.

Neb., Omaha—HOSPITAL—Feb. 17, by J. Latenser & Sons, archts., Peters Trust Bldg., 3 story and basement, brick addition, 42nd St. and Dewey Ave., for University of Nebraska Hospital. $250,000. Noted Nov. 19.

Tex., San Antonio—JAIL—Bexar Co., c/o A. McCloskey, judge, taking bids 2 story, 110 x 170 ft., rein.-con. and brick addition, plain foundation, Cameron St. between Houston and Commerce Sts. $500,000. A. B. and R. M. Ayers, c/o Bedell Bldg., and Seutter & Simons, c/o Builders Exch. Bldg., archts. Noted Oct. 7.

Calif., San Francisco—APARTMENT—C. A. Meussdorffer, archt., Humboldt Bank Bldg., taking bids general contract 10 story, basement and sub-basement, steel and rein.-con., Steiner and Jackson Sts., for T. Hamill & R. G. Hall, 6242 Geary St. $400,000. Noted Oct. 22.

CONTRACTS AWARDED

Mass., Brighton (Boston P. O.) — APARTMENTS—J. Borson, 17 Hiawatha Rd., Mattapan, will build five 3 story and basement, 50 x 75 ft., brick, stone and steel, Commonwealth Ave. $250,000. Work will be done by separate contracts.

Mass., Mattapan (Boston P. O.) — APARTMENT—J. Levine, 1286 Blue Hill St., Dorchester, will build 3 story and basement, brick and steel, Almont St., here, by day labor. $275,000. S. E. Moffie, 51 Cornhill, Boston, archt.

Mass., Roxbury (Boston P. O.)—APARTMENT—A. D. Shapiro, 27 School St., Boston, will build 3 story and basement, brick and stone, plain foundation, Maple and Schuyler Sts. $250,000. Work will be done by separate contracts. Silverman, Brown & Heenan, 51 Cornhill St., Boston, archts.

Conn., Bridgeport——APARTMENT—W. F. Chatlos, West Broad St., Stratford, will build 7 story, 60 x 200 ft., brick and steel, Courtlandt St., here, by day labor. $300,000. J. W. Northrop, 211 State St., archt. Noted Sept. 17.

N. Y., Brooklyn—HOTEL—Rapsil Constr. Co., 1802 Cortelyou Rd., will build 6 story, brick, steel and stone, plain foundation, Bedford and Church Aves. $1,200,000. Work will be done by separate contracts under supervision of owner. Ricca &

See proposal advertisements on page 155, Advertising Section.

Buildings—Commercial (Continued)

Lugerfelder, 186 Remsen St., engrs. and archts.

N. Y., Brooklyn—OFFICE and LOFT—Bush Terminal Co., foot 43rd St., 2 rein.-con., brick and steel, plain foundations, 1st Ave. and 39th St., to Turner Constr. Co., 244 Madison Ave., New York City. Archts. est. $2,000,000. Noted Jan. 28.

N. Y., New York — APARTMENT — Rosbud Realty Corp., c/o S. V. Becker, engr. and archt., 819 East 169th St., will build 5 story, brick, steel and stone, plain foundation, 149 West 139th St., by day labor. $150,000.

N. Y., New York — OFFICE — Bricken Constr. Corp., A. Bricken, pres., 62 West 47th St., will build 42 story, brick, steel and stone, plain foundation, Bway. and Barclay St. $10,000,000. Work will be done by separate contracts.

N. Y., New York—THEATRE—Mayson Realty Co., J. Mayer, pres., 56 West 45th St., brick, steel and stone, plain foundation, West 50th St., to O'Day Constr. Co., 1639 Bway. Archts. est. $250,000.

N. J., Newark—STORE and OFFICE—J. C. Eisele Co., c/o N. Myers, archt., 7 Nelson Pl., 2 story and basement, 100 x 224 ft., brick and limestone, plain foundation, Elizabeth Ave., to L. D. Kelgus Co., 13 Coes Pl., approximately $160,000.

Pa., Phila.—APARTMENT and STORE—Huntington Hall c/o F. H. Smith Co., 1524 Walnut St., will build 16 story and basement, 44 x 135 ft., rein.-con., brick and steel, plain foundation, 20th and Walnut Sts. Work will be done by separate contracts. $1,500,000. Private plans.

Pa., Phila.—APARTMENT—G. T. Sales, Liberty Bldg., 3 story and basement, 50 x 130 ft., brick and steel, plain foundation, 1661 East Harrison St., to Rush Bros., 4682 Darrah St. Archts. est. $150,000.

Pa., Phila. — APARTMENT — Parkway Apartment Corp., c/o F. N. Greissler, archt., 1035 West Walnut St., 14 story and basement, 110 x 170 ft. apartment, incl. swimming pool, 33rd and Columbia Sts., to B. Bornstein, 1310 Winghocking Ave. Archts. est. $1,750,000. Noted Nov. 12.

Pa., Phila. — OFFICE — Fidelity Mutual Life Insurance Co., 112 North Broad St., 3 story, loft and basement, 40 x 188 ft., 40 x 144 ft. and 40 x 200 ft., rein.-con., brick, limestone and granite, plain foundation, Parkway and Fairmount Aves., to Turner Constr. Co., 1713 Sansom St. Archts. est. $1,500,000.

Pa., Phila.—SALES and SERVICE—P. S. Tyre, archt., 114 South 15th St., 3 story, mezzanine and basement, 86 x 100 ft., rein.-con. and brick, plain foundation, Broad and Washington Sts., to White Constr. Co., Jefferson Bldg., for Duff-Nash Motor Co., 1113 South Broad St. Noted Jan. 1.

Fla., Miami—HOTEL—Shoreland Co., c/o Miami Shores Co., 6 story hotel, and 4 story apartment, rein.-con., Federal Highway and Northeast 122nd St., to Markley Constr. Co., Miami. Archts. est. $1,250,000.

Miss., Clarksdale—WAREROOM—M. L. McIntyre & Son, Inc., M. L. Virdue, pres., will build 1 story, 100 x 400 ft., concrete and timber addition, here, by day labor.

O., Akron — FABRIC WAREHOUSE — Firestone Tire & Rubber Co., 1289 South Main St., 1 story, brick and steel, to Clemmer & Johnson, 470 East Market St. Archts. est. $150,000. Noted Jan. 28.

O., Columbus — BANK and OFFICE — Ohio State Savings Assn., 44 East Broad St., 42.5 x 83 x 118 x 125 ft., stone, terra cotta and steel, 3rd and Gay Sts., to D. W. McGrath & Sons, 255 East Broad St., if 8 story and basement $490,000, or 12 story $593,000. Noted Dec. 24.

Ill., Chicago—APARTMENT—L. O. Runner, c/o H. H. Richards, archt., 5467 West Washington Blvd., masonry contract 5 story, 96 x 176 ft., 313-325 North Central Ave., to J. A. Lundstrum, 5153 North Clark St.; plumbing and heating, to W. Gowne & Co., 5521 West Madison St. Archts. est. $550,000.

Ill., Chicago—APARTMENT—Landsbro Hotel Corp., c/o Oldefest & Williams, archts., 605 North Michigan Ave., masonry contract 10 story, 54 x 150 ft., brick, steel and terra cotta, North Dearborn and Maple Sts., to Seipp & Lonergan, 179 West Washington St.; plumbing, to M. Weil, 3150 West Chicago Ave.; heating, to Crosby & Baird, 163 West Harrison St. Noted Jan. 14.

Wis., Milwaukee — HOTEL — A. Tegtmeyer, 401 Grand Ave., 12 story and basement, 50 x 75 x 77 ft., brick and concrete, Grand Ave. and 4th St., to W. W. Oeflein, Inc., 86 Michigan Ave. Archts. est. $500,000. Noted Oct. 1.

Mo., Jefferson City — HOTEL — J. A. Huegel, Central Hotel, remodeling and constructing 10 story and basement, 75 x 200 ft., rein.-con. and steel addition, plain foundation, to E. Dreier & Son, Peoples Natl. Bank Bldg., Kansas City, not to exceed $350,000. Noted Nov. 12.

Mo., Kansas City—WAREHOUSE—Federal Van & Storage Co., 4010 Hamilton St., 5 story and basement, 70 x 95 ft., rein.-con. addition, plain foundation, to G. F. Green, Rialto Bldg. Archts. est. $150,000.

Mo., St. Louis—STORE and OFFICE—J. F. Dickmann Real Estate Co., 623 Chestnut St., 6 story and basement, 40 x 130 ft., rein.-con., brick and stone, 3117-19 South Grand Blvd., to H. O. Hirsch Co., Wainwright Bldg. Archts. est. $275,000. Noted Dec. 24.

Okla., Oklahoma City — OFFICE — Levy Bros., general contract 3 story, 75 x 140 ft., rein.-con., brick and stone addition, Harvey and Main Sts., to Kreipke-Schaefer Constr. Co., 506 Herskowitz Bldg. Noted Dec. 17.

Calif., San Francisco — GARAGE — J. Jerome, 321 Bush St., 2 story, rein.-con., 3rd and Folsom Sts., to United Building & Constr. Co., 321 Bush St., $175,000. Noted Oct. 29.

Calif., San Francisco—OFFICE—Hunter, Dulin & Co., 256 Montgomery St., 24 story and basement, Sutter and Montgomery Sts., to Lindgren-Swinerton, Inc., 225 Bush St., approximately $3,000,000. Noted Oct. 29.

Calif., San Francisco — OFFICE — A. Grant, 10 story addition, Bush and Sansome Sts., to Lindgren-Swinerton, Inc., 225 Bush St., approximately $950,000.

Calif., San Francisco — STORE — G. H. Sandy Co., 2474 Mission St., 2 story, 78 x 160 ft., rein.-con. top addition, Mission St. near 21st St., to A. Petersen, 2309 San Bruno Ave., $400,000.

Buildings—Educational, Religious

PROPOSED WORK

Mass., Clinton—CHURCH—First Methodist Episcopal Church, Walnut St., soon lets contract 2 story and basement, 60 x 115 ft., rein.-con. and stone, plain foundation, Walnut St. $150,000. Woodbury & Stuart, 581 Boylston St., Boston, archts.

Mass., Harwich—HIGH SCHOOL—Town, W. Eldridge, chn., having plans prepared by Morse & Chase, 25 Washington Sq., Haverhill, 2 story and basement, new high school. $150,000.

Mass., Hyde Park (Ind. br. Boston) — SCHOOL—Schoolhouse Dept., Boston, plans 2 story and basement, brick, Sunnyside St., here. $150,000. Engineer and architect not selected.

Mass., Worcester — LIBRARY — City, Library Bd. plans brick, steel and stone library. To exceed $150,000. Engineer and architect not selected.

Mass., Worcester—SCHOOL—City, Pub. Bldg. Dept., plans brick and steel, Nelson Pl. $150,000. Engineer and architect not selected.

Mass., Worcester—SCHOOL—City, Dept. Pub. Bldg., City Hall, having plans prepared by E. P. Fitzgerald, State Mutual Bldg., 2 story and basement, brick and steel, Granite St. $150,000. Noted Jan. 21.

R. I., Providence—HIGH SCHOOL—City, Pub. Building Dept., had sketches made by T. J. Hill Pierce, 30 Allens St., Junior High School, brick, steel and stone, Taber Ave. and Sessions St. $750,000.

Conn., Hartford — CHURCH — Emanuel Synagogue, M. Silverman, rabbi, plans church and school, 1,500 seating capacity, Greenfield St. $250,000.

Conn., Hartford—SCHOOL—City, Vocational Educational Dept., City Hall, plans 3 story trade school. $275,000. Engineer and architect not selected.

N. Y., Astoria (sta. Long Island City)—CHURCH—Trinity Lutheran Church of Astoria, 346 8th Ave., F. H. Lindeman, pastor, having plans prepared by G. W. Conable, engr. and archt., 46 West 24th St., New York City, brick, steel and stone, plain foundation, Jamaica and 8th Aves. $200,000.

N. Y., Babylon—HIGH SCHOOL—Dept. Educ. plans 100 x 225 ft., brick, steel and stone, plain foundation. $365,000. Engineer and architect not selected.

N. Y., New York—CHURCH and PARISH HOUSE — Trinity Swedish Lutheran Church, S. G. Ohman, 72 West 126th St., soon takes bids brick, steel and stone, Grand Concourse and 166th St. $300,000. A. S. Hedman, 112 East 19th St., engr. and archt.

N. Y., Port Washington—HIGH SCHOOL Bd. Educ. having plans prepared by Delano & Aldrich, engrs. and archts., 126 East 38th St., New York City, brick, steel and stone, plain foundation. $750,000.

N. Y., Sea Cliff—SCHOOL—Bd. Educ. soon takes bids brick, steel and stone addition, plain foundation. $200,000. Coffin & Coffin, 522 5th Ave., New York City, engrs. and archts. Noted Jan. 7.

N. Y., Tuckahoe (Ind. br. Yonkers) — HIGH SCHOOL—Bd. Educ. having plans prepared by Tooker & Marsh, engrs. and archts., 101 Park Ave., New York City, brick, steel and stone, plain foundation, here. $600,000.

N. J., Montclair — CHURCH — C. W. Wands, associated archt., Caldwell soon lets contract 1 story and basement, 65 x 190 ft. brick, Hillside Ave., for First Church of Christ Scientist, here. $200,000. C. D. Faulkner, 140 South Dearborn St., Chicago, Ill., archt.

Pa., Verona—HIGH SCHOOL—Bd. Educ. having plans prepared by S. M. Beall & Son, Monesson, 3 story and basement, 80 x 100 ft., brick and hollow tile addition. $200,000.

Md., Baltimore — CHURCH and PARSONAGE—First English Lutheran Church, M. L. Enders, pastor, 821 West Lanvale St., having plans prepared by Parker, Thomas & Rice, Union Trust Bldg., 1 story and basement, stone, Charles and 39th Sts. $225,000.

Md., Baltimore — CONVENT, etc. — St. Pauls Roman Catholic Church, M. F. Foley, pastor, Caroline and Oliver Sts., having plans prepared by J. K. Stack, 308 East Lafayette Ave., 3 story and basement, steel and stone, plain foundation, 1415-21 North Caroline St. $150,000.

Md., Baltimore—MUSEUM—Mayor and City Council plans art museum marble or limestone, Wyman Park. $1,000,000. Engineer and architect not selected. Noted Nov. 13.

N. C., Swannonoa—SCHOOL—Buncombe Co. Comrs., Asheville, election Feb. 23, $150,000 bonds, new school, here.

Miss., Laurel — HIGH SCHOOL — P. J. Krouse, archt., Meridian, soon takes bids Junior High School, here, for City. Noted Aug. 13.

Tenn., Nashville — COLLEGE — Vanderbilt University, c/o J. H. Kirkland, chancellor, plans social science, physics and geology buildings and biology hall, on campus. $1,050,000.

O., Cincinnati — SCHOOL — Bd. Educ., Denton Bldg., having plans prepared by R. E. Hunt, Temple Bar Bldg., Kennedy Heights School, 3 story and basement, rein.-con. and brick, plain foundation, Montgomery St. $150,000.

O., Cleveland — RECTORY — St. Agnes Roman Catholic Church, G. P. Jennings, pastor, 8000 Euclid Ave., had plans prepared by Comes, Perry & McMullen, Renshaw Bldg., Pittsburgh, Pa., 3 story and basement, 61 x 99 ft., stone and steel, East 81st St. $150,000.

Ill., Peoria — ADMINISTRATION and DORMITORY — Y.W.C.A., 121 North Monroe St. plans administration and dormitory, Fayette and Jefferson Sts. $250,000. Engineer and architect not selected. M. Finney, pres.

Minn., New Ulm — COLLEGE — Martin Luther College, H. A. Sitz, secy., plans 2 story and basement, rein.-con., brick and stone college. $175,000. Engineer and architect not announced.

Mo., Kansas City—SCHOOL—Bd. Educ. had plans prepared by C. E. Smith, 800 Finance Bldg., 4 story and basement, irregular shaped, rein.-con. and brick addition, incl. swimming pool, here.

Tex., Colorado—HIGH SCHOOL—City, Bd. Educ. had plans prepared by C. H. Griesenbeck, 1206 South West Life Bldg., Dallas, 3 story, 145 x 175 ft., rein.-con., brick and stone high school. $150,000. Noted Dec. 17.

Tex., San Angelo—SCHOOLS—Election soon $250,000 bonds, additions to East and North Ward Schools, also, new Junior High School; and $250,000 bonds, new Junior College. Engineer and architect not announced.

Okla., Weleetka — HIGH SCHOOL — Bd. Educ. making preliminary plans 2 story and basement, rein.-con. and brick, 7th St. $175,000 bond election soon. Engineer and architect not selected.

Calif., Culver City—SCHOOLS—La Ballona School Dist. voted $210,000 bonds, grammar schools.

Calif., Huntington Park — SCHOOL — Huntington Park City School Dist., election $250,000 bonds, school additions.

Calif., Los Angeles—SCHOOL—Bd. Educ. soon takes bids Wiggins Trade School, 2 story and basement, rein.-con. $650,000. Austin & Ashley, Chamber of Commerce Bldg., archts.

Calif., San Leandro—SCHOOLS—Voted $200,000 bonds, 18 additional classrooms to standing schools, and new grammar school. Noted Dec. 10.

See proposal advertisements on page 155, Advertising Section.

Buildings—Educational, Religious (Cont.)

Que., Montreal — CHURCH — United Church, A. J. Martin, rector, had plans prepared church, Notre Dame de Grace St. $160,000. G. A. Russell, chn. building com.

Que., Three Rivers—CHURCH—Roman Catholic Church, P. E. Paguin, rector, having plans prepared by Asselin & Deuoncourt, Three Rivers, church, Colean and St. Louis Sts. $160,000.

Ont., London—COLLEGIATE—Bd. Educ., A. R. Cairncross, chn., having plans prepared by L. E. Carrothers, c/o owner, Collegiate building, Tecumseh St. $200,000.

Ont., Toronto—SCHOOL—Bd. Educ., 155 College St., having plans prepared by C. E. Dyson, c/o owner, 2 story and basement, rein.-con., brick and steel addition to Adam Beck School. $150,000.

B. C., Vancouver—SCHOOLS—Bd. School Trustees Hamilton St., takes bids about Mar. 1, three 3 story, rein.-con., brick and tile, schools, plain foundations. $300,000. F. A. A. Barrs, c/o owner, archt. P. P. Brown, 410 London Bldg., engr. Noted Dec. 3.

BIDS DESIRED

Conn., Plainville — HIGH SCHOOL — Town, L. S. Mills, com. man, taking bids 2 story and basement, brick and steel, East St. $250,000. School Plan Serv. Bureau, 363 Main St., Middletown, archts.

N. J., Jersey City—CHURCH—Feb. 6, by Lafayette Presbyterian Church, 2 story, 60 x 115 ft., stone, Forest and Ocean Aves. $200,000. J. J. Jackson, 185 Church St., New Haven, Conn., archt.

N. J., Paulsboro—SCHOOL—Feb. 19, by Bd. Educ., 2 story and basement, 76 x 173 ft., rein.-con. and brick, plain foundation. $200,000. Ritter & Shay, Packard Bldg., Phila., Pa., archts. Noted Jan. 28.

Pa., Ardmore—HIGH SCHOOL—Feb. 5, by Lower Merion Twp. School Dist., 3 story and basement, two 84 x 69 ft., rein.-con. and brick wings, plain foundation, Montgomery Ave. and Church Rd. $150,000. R. E. White, Penn Bldg., Phila., archt. Noted Nov. 12.

Pa., Johnstown—HIGH SCHOOL—Feb. 15, by Bd. Directors School Dist., Garfield Junior School, 3 story and basement, 260 x 300 ft., brick and steel, Morrellville St. $750,000. J. E. Adams, Nemo Bldg., archt. Noted Jan. 21.

Pa., Williamsport—HIGH SCHOOL—Feb. 18, by Bd. Educ., Junior High School, 2 story and basement, 70 x 268 ft., and 102 x 129 ft., rein.-con., brick and steel, plain foundation, here. $400,000. Gilbert & Betelle, 20 Branford Pl., Newark, N. J., archts. E. S. Powers & Son, engrs., Chamber of Commerce Bldg., Newark, N. J. Noted Jan. 21.

D. C., Wash.—HIGH SCHOOL—Feb. 19, by Dist. Comrs., District Bldg., Stuart Junior High School. $475,000. Noted Oct. 8.

Miss., Raymond—HIGH SCHOOL—Feb. 19, by H. V. Watkins, pres. Bd. Trustees Hinds Co. Agricultural High School and Junior College, for high school, incl. administration and girls dormitory. $150,000. J. M. Spain, Jackson, archt. Noted Oct. 1.

O., Parma (Cleveland P. O.)—SCHOOL—Feb. 13, by Bd. Educ., I. D. Siegfried, clk., 2 story and basement, brick, steel and concrete school. $250,000. Fulton & Taylor, 8120 Euclid Ave., Cleveland, archts. Noted Oct. 22.

Wis., Marshfield—SCHOOL—Feb. **23**, by School Dist. 1, M. Hansen, clk., 2 story and basement, brick and tile addition to Vocational and Junior High School, plain foundation. $225,000. Parkinson & Dockendorff, Linker Bldg., La Crosse, archts.

Minn., Edina (Minneapolis P. O.) — SCHOOLS—Feb. 9, by G. M. Sachs, secy. Independent School Dist. 17, 2 story and basement, rein.-con. and brick, Wooddale Ave. and 50th St.; and 1 story and basement, brick, Alden Dr. and Morningside Rd., Morningside Village. $150,000. Sund & Dunham, 512 Essex Bldg., Minneapolis, archts. Noted Jan., 1925.

Calif., Los Angeles—HIGH SCHOOL—Feb. 10, by Bd. Educ., Adams Junior High School, 3 story and basement, rein.-con. and brick. $200,000. Kistner & Co., Detwiler Bldg., archt. Noted Aug. 6.

BIDS RECEIVED

Calif., Huntington Beach — SCHOOL — Trustees Huntington Beach High School Dist., general contract group high school buildings, from J. Simpson & Co., 701 Antonio Ave., Los Angeles, concrete $303,000, brick $305,000, interlocking tile $302,500. Noted Dec. 31.

Calif., Oakland—SCHOOL—City, Prescott School, 2 story, concrete, from Lawton & Vezey, 354 Hobart St., $112,960. Noted Dec. 3.

Calif., San Francisco—HIGH SCHOOL—Bd. Pub. Wks., general contract Galileo High School, fireproof, Francisco and Van Ness Ave., for City and San Francisco Co., from O. Monson, 251 Kearny St., $388,860; mechanical equipment from P. J. Enright, 2720 McAllister St., $32,200; plumbing, from S. W. Band, 580 Valencia St., $28,425. Noted Dec. 31.

CONTRACTS AWARDED

Mass., Hamilton — CHURCH — Christ Episcopal Church, 1 story and basement, stone and granite, plain foundation, Asbury St., to F. P. Trussell, Hamilton. Archts. est. $150,000.

R. I., Providence — COLLEGE — Brown University, Women's College, 2 story and basement, brick and steel, Cushing and Meeting Sts., to C. B. Maguire Co., 507 Grosvenor Bldg. Archts. est. $400,000.

Conn., Stamford—SCHOOL—Town, C. H. Martin, chn. com., City Hall, 2 story and basement, 45 x 128 ft., rein.-con., brick and stone, plain foundation, Glenbrook Dist., to E. and F. Constr. Co., 94 Wells St., Bridgeport, $193,000. Noted Jan. 28.

Md., Baltimore—NURSES HOME—J. E. Sperry, archt., Calvert Bldg., 7 story, rein.-con., brick and steel, plain foundation, 33rd St., to Consolidated Eng. Co., 20 East Franklin St., for Union Memorial Hospital. $450,000. Noted Jan. 7.

Md., Baltimore — SYNAGOGUE — Zion Shaari Congregation, c/o A. S. Hillman, ch. building com., 3445 Park Heights Ave., 1 story, basement and balcony, 80 x 100 ft., rein.-con. and brick, plain foundation, Park Heights and Hillsdale Aves., to S. Kroll, 812 West North Ave., $150,000. Noted Jan. 7.

Fla., Coral Gables—SCHOOL—Dade Co. Bd. Pub. Instruction, 1st Ave. and 3rd St., Miami, 1 story, 100 x 120 ft. auditorium, 2 story, 30 x 112 ft. class room, and 32 x 82 ft. cafeteria, rein.-con. and tile, to Coral Gables Constr. Co., Coral Gables, $198,382. Noted Dec. 31.

Fla., Miami—HIGH SCHOOL—Dade Co. Bd. Pub. Instruction, 1st Ave. and 3rd St., Shenandoah High School, 3 story, 200 ft. area, rein.-con. and tile, 10th St. and 21st Ave. to Fleisher Eng. & Constr. Co., Tampa. $275,000. Noted Dec. 31.

Fla., Miami Beach—HIGH SCHOOL—Dade Co. Bd. Pub. Instruction, 1st Ave. and 3rd St., Miami, 3 story, 200 sq.ft. area, rein.-con. and tile, Drexel Ave. and 14th St., here, to Fleisher Eng. & Constr. Co., Tampa. Archts. est. $250,000. Noted Dec. 31.

O., Akron—GYMNASIUM—Bd. Educ., 2 story, 83 x 83 ft., brick addition to Garfield High School for gymnasium, to Clemmer & Johnson, 470 East Market St., $136,282.

O., Cleveland—SCHOOL—Bd. Educ., F. G. Hogen, dir., 2 story and basement, 112 x 128 ft., concrete, brick and steel addition, East 55th St., to Schirmer-O'Hara Co., 1720 Euclid Ave. Archts. est. $350,000. Noted Jan. 7.

Ill., Evanston—CHURCH—Talmadge & Watson, archts., 160 North La Salle St., Chicago, general contract church Hinman and Greenwood Aves., here, to H. B. Barnard, 140 South Dearborn St., for First Congregational Church. Archts. est. $750,000. Noted Aug. 6.

Mo., St. Louis—GYMNASIUM—O'Meara & Hills, archts., Arcade Bldg., general contract, 2 story and basement, 150 x 213 ft., rein.-con., brick and stone, West Pine Blvd., to C. W. Schuler Co., 3010 Oregon St., for St. Louis University, Grand and West Pine Blvds. Noted Dec. 31.

Calif., Huntington Beach — SCHOOL — Trustees Huntington Beach High School Dist., general contract group concrete high school buildings, to Simpson & Co., 701 Antonio Ave., Los Angeles, $302,500. Noted Jan. 28.

Calif., San Francisco—HIGH SCHOOL—Bd. Pub. Wks., general contract Galileo High School, fireproof, Francisco and Van Ness Ave., for City and San Francisco Co., to O. Monson, 251 Kearny St., $388,860; mechanical equipment, to P. J. Enright, 2720 McAllister St., $32,200; plumbing, to S. W. Band, 580 Valencia St., $28,425. Grand total $449,485. Noted Jan. 28.

Que., St. Leon le Grand — CHURCH — Roman Catholic Congregation, church, to J. St. Hilaire, St. Romuald, $192,000.

Federal Government Work

PROPOSED WORK

D. C., Wash.—Hangar—War Dept., plans rebuilding hangar at Bolling Field.

N. C., Cape Lookout (mail Beaufort)—Compass Station—Spec. 5182—Mar. 3, by Bureau Yards & Docks, Navy Dept., Wash., D. C., two 100 ft. radio compass stations, at Naval Radio Compass Station, here.

BIDS DESIRED

D. C., Wash.—Elevator—Mar. 1, by U. S. Engineer Office, Navy Dept. Bldg., building electric freight elevator for [illegible] supply project, for Dist. of Columbia [illegible] E. N.-R. Feb. 4.

Ky., Louisville—Beartrap Leaves—Feb. 8, by U. S. Engineer's Office, P. O. Box 22, beartrap leaves for Dams 45 and 49, Ohio River; adv. E. N.-R. Feb. 4. Noted Jan. 28.

O., Cincinnati — Mezzanine — Feb. 13, by Treas. Dept. at office Supervising Architect, Wash., D. C., mezzanine at U. S. Post Office, here.

Ill., Evanston—Remodeling—Feb. 23, by Treas. Dept., at office Supervising Architect, Wash., D. C., remodeling U. S. Post Office, here. J. A. Wetmore, acting supervising archt.

Kan., Hutchinson—Remodeling—Feb. 25, by Treas. Dept., at office Supervising Architect, Washington., D. C., remodeling U. S. Post Office, here.

Oregon—Outlet Pipes—Mar. 9, by Bureau Reclamation, Dept. of Interior, Wash., D. C., two 54 in. riveted or welded plate steel outlet pipes for McKay Dam, Umatilla Project, here. E. Mead, comr.; adv. E. N.-R. Feb. 4.

Calif., Palo Alto—Water Tanks—Mar. 2, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., red wood water tanks for U. S. Veterans Hospital 24, here. L. H. Tripp, ch. constr. div.

C. Z., Panama—Pipe Masts—Spec. 5145—Feb. 24 (extended date), by Bureau Yards & Docks, Navy Dept., Wash., D. C., 2 guyed steel pipe masts for Naval Radio Station, Capa Mala, here. Noted Jan. 7.

BIDS RECEIVED

Ala., Tuskegee — Recreation — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Jan. 27, 52 x 132 ft., brick, at U. S. Veterans Hospital, here, from Batson-Cook Co., Inc., West Point, Ga., $54,070. Noted Jan. 7.

Minn., Fort Snelling (br. St. Paul)—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Jan. 26, general contract U. S. Veterans Hospital, here, from Madsen Constr. Co., 848 Builders Exch., Minneapolis, $1,025,700; heating from H. Kelly & Co., 925 Plymouth Bldg., Minneapolis, $146,900; plumbing, from W. F. Bunce, 226 Salmon St., Portland, Ore., $140,222; and electrical work, from Domestic Utility Co., 56 Main St., Oshkosh, Wis., $68,725. Noted Dec. 17.

Ariz., Prescott—Post Office—Treas. Dept. at office Supervising Architect, Wash., D. C., Feb. 1, post office, here, from W. D. Lovell, 1415 Southeast 8th St., Minneapolis, Minn., $39,323 alternate $1,840. Noted Jan. 14.

CONTRACTS AWARDED

Wis., Janesville — Post Office — Treas. Dept., at office Supervising Archt., Wash., D. C. remodeling and enlarging U. S. Post Office, here, to J. P. Cullen & Son, 109 South Main St., $19,643. Noted Jan. 14.

Calif., Soldiers Home (br. Sawtelle P. O.)—Hospital, etc.—C. W. Wadsworth, genl. treas. Pacific Branch Natl. Home for D.V.S., Los Angeles, 5 story, 300 x 300 ft. central building with 6 story and 7 story wings, etc., to Los Angeles Building & Contg. Co., 4816 West Pico St., Los Angeles, $986,485. Noted Nov. 26.

Unclassified

PROPOSED WORK

Park—Brighton (Boston P. O.)—**Mass.**—Park Dept., 33 Beacon St., Boston, plans reconstructing Rogers Park, here. $37,000. J. E. Murphy, 33 Beacon St., Boston, engr.

Golf Course—West Hartford (br. Hartford) **Conn.** — Webster Hill Club, W. W. Sherman, 272 Main St., Hartford, plans golf course, here. To exceed $25,000. Engineer not selected.

Tunnel—New York—Bureau Highways, Albany, making preliminary plans 900 ft. tunnel, 40 ft., to west approach new highway bridge over Hudson River, from Highland to Poughkeepsie. $190,000. A. W. Brandt, Albany, comr. highways.

Elimination of Grade Crossing—Guilderland Center, N. Y.—Pub. Serv. Comn., Albany, issued order prescribing method elimination grade crossing of county highway and West Shore R.R., by constructing 2 span 90 ft. plate girder bridge with two 20 ft. rein.-con. approach spans at each end, here. $108,700. State appropriates $10,578, Albany Co. $43,773, and railroad $54,350, toward cost.

Underground Cables—Deal, N. J.—Eastern New Jersey Power Co., Main St., Hightstown, plans underground cables through here. $30,000.

See proposal advertisements on page 155, Advertising Section.

Unclassified (Continued)

Pier and Sheds—St. Petersburg, Fla.—Election Feb. 9, $824,000 bonds, rein.-con. pier, also $432,000 bonds, transit sheds for Port of St. Petersburg.

Swimming Pool — Zanesville, O. — See "Buildings—Commercial."

Bathing Beaches, Parks, etc.—Springfield, Ill.—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Swimming Pool, etc.—Des Moines, Ia.—Dept. Parks & Pub. Property, J. G. Rounds, supt., takes bids about Mar. 1, 85 x 150 ft., rein.-con. swimming pool, and 46 x 130 ft., brick and rein.-con. bath house. $40,000. Hennings on Eng. Co., Natl. Bldg., Omaha, Neb., engrs.

Swimming Pool—Kansas City, Mo.—See "Buildings—Educational, Religious."

Reptile Houses—St. Louis, Mo.—City, c/o Zoological Bd. Control, having preliminary plans prepared by J. Wallace, Zoo Grounds, 2 story and basement, rein.-con., brick and stone, Forest Park Zoo Grounds. $100,000.

Pipe Line—Texas and Arkansas—Magnolia Petroleum Co., Beaumont, making plans 350 mi. 8 in. pipe line from Beaumont, Tex., to Eldorado, Ark. $3,000,000. Private plans.

Gas Pipe Line — Texas — Mid-Continent Oil & Gas Co., Wichita Falls, making plans approximately 175 mi. 10 in. natural gas pipe line from fields in Carson Co. to Hutchinson Co. $4,600,000. Private plans.

Piers — Galveston, Tex. — Galveston Wharf Co., c/o E. E. Gossrau, 2324 Ave. B, plans reconstructing Piers 23, 24, 25 and 26, also rein.-con. wharves, recently destroyed by fire. $1,500,000. R. M. Sias, 2324 Ave. B, engr.

Transmission Line—Oklahoma—Town of Fargo voted $25,000 bonds, distribution system in Fargo, and electric high line between Fargo and Woodward. H. G. Olmsted, Oklahoma Bldg., Oklahoma City, engrs. Noted Jan. 21.

Power Development—California—Pacific Gas & Electric Co., 245 Market St., San Francisco, making plans rock-filled and concrete dam, 200 ft. high on Mokelumne River, at Salt Springs, approximately 1,000,000 cu.yd. rock fill; 25 mi. concrete lined canal and tunnel from dam to Tiger Creek; and power plant to have 40,000 hp. 1,200 ft. drop, Amador and Calaveras Counties. Eng. Dept. of Owners, engrs.

Launches, Tugboats, etc. — San Francisco, Calif.—Crowley Launch & Tugboat Co., Pier 14, appropriated $250,000 funds constructing six 125 ft. lighters, 40 ft. beams, 12 ft. depth, approximately $25,000; and 4 tugboats, $50,000 each.

Transformers, etc.—Kananaskis, Alta.—Calgary Power Co. plans four 20,000 kva. transformers, at Horseshoe Plant, here, $100,000; also reconstructing 3 power lines to carry 132,000 v. A. G. Gaherty, c/o owner, ch. engr.

Stack, etc.—New Westminster, B. C.—Brunette Lumber Co. Ltd., Sapperton, making plans smoke stack, patent burners and refuse carrying equipment. $75,000. Private plans.

Lamp Standards — Vancouver, B. C. — Plans ornamental 1 light lamp standards, etc. on various streets. $500,000. Work will probably be done by city forces. C. H. Fletcher, City Hall, engr.

BIDS DESIRED

Sanitary Work, etc.—Willard, N. Y.—Feb. 24, by State Hospital Comn., Albany, sanitary work, water supply, and electrical work, etc., for Willard State Hospital, here. S. W. Jones, Capitol, Albany, state archt.; adv. Feb. 4.

Swimming Pool—Jersey City, N. J.—See "Buildings—Educational, Religious."

Golf Course—Ft. Lauderdale, Fla.—See "Contracts Awarded."

Banana Unloaders—New Orleans, La.—Feb. 9, by Bd. Port Comrs., New Courthouse Bldg., 2 banana unloaders.

Gravel and Sand Washing Plant—Omro, Wis.—Feb. 8, by F. C. Steiner, comr. Winnebago Co., Oshkosh, 1 gravel and sand washing plant in gravel pit near here.

Transmission Line—Texas—See "Contracts Awarded."

Transmission Line — Oklahoma — See "Contracts Awarded."

Bulkheads — Los Angeles, Calif. — See "Contracts Awarded."

Wharf—Quebec, Que.—Taking bids extending Quebec-Lewis Ferry Wharf. $30,000. W. D. Baillarge, city engr.

BIDS RECEIVED

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., Jan. 29, subway, Sect. 4-A, Route 78, under and along St. Nicholas Ave. from West 141st to 149th St., from La Rocca Constr. Co., 576 Exterior St., **(a)** $4,705,064 **(b)** $4,680,064 **(c)** $5,215,064 and **(d)** $5,152,564. Noted Jan. 21.

Generators, etc. — Decatur, Ill. — City Council, Jan. 19, furnishing and installing two 625 kw. steam turbine generators with exciters, two 1,250 ft. surface condensers, and 2 switchboard panels, from Allis-Chalmers Co., 122 South Michigan Ave., Chicago, $51,825.

Bulkhead—Long Beach, Calif.—Rein.-con. bulkhead in Bay Shore Walk between 52nd and 65th Places, from N. E. Marsh, 237 Bimini Pl., Los Angeles, $37,000.

CONTRACTS AWARDED

Coal Pocket — Boston, Mass. — Gowdy Gum Co., 52 Everett St., Allston, coal pocket, to J. Gascoigne, 6 Beacon St. Engrs. est. $30,000.

Bulkhead—New York, N. Y.—Park Bd., F. D. Gallatin, pres., Arsenal Bldg., 64th St. and 5th Ave., concrete bulkhead along easterly boundary public driveway between 193rd and 198th Sts., to Ascher Eng. & Constr. Co., 51 West 66th St., $91,808. Noted Dec. 24.

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., subway Sect. 5, Route 102, under and along 8th Ave. from West 48th to 58th Sts., incl. spurs under private property from West 52nd to 54th Sts., to Heyman & Goodman Co., Inc., 236 West 116th St., $6,641,678. Noted Jan. 28.

Stadium—Newark, N. J.—Newark Baseball Club, 2 East 23rd St., New York City, 150 x 430 ft., crescent shaped oval, steel and concrete, etc., to T. J. Scully, foot Little St., Belleville, approximately $250,000.

Swimming Pool—Phila., Pa.—See Buildings—Commercial."

Underpass — Atlanta, Ga. — For 150 ft. underpass on Bell St. between Hunter and Decatur Sts., to Hadegon Constr. Co., Greenville, S. C. Engrs. est. $72,900.

Pier—Miami Beach, Fla.—Miami Beach Pier Corp., G. R. K. Carter, pres., 15 Ocean Dr., piling and 1st deck work complete for 600 ft. pier, incl. 1,000 kw. radio station, auditorium, 300 seating capacity, etc., to Frederick Snare Corp., 114 Liberty St., New York City, N. Y., $150,000. Noted Jan. 7.

Golf Course—Ft. Lauderdale, Fla.—City will construct golf course, incl. grading, excavating and clubhouse, by day labor. $250,000. J. B. Horne, city mgr.

Heating and Plumbing—Chicago, Ill.—See "Buildings—Commercial."

Street Signs—Peoria, Ill.—Synchronized traffic light system, incl. 4 "Stop and Go" signals at each of 13 loop intersections, to Central Illinois Light Co., 316 South Jefferson St., $35,000. Noted Nov. 26.

Repair Plants—Milwaukee, Wis.—Central Bd. Purchases, 6 road repair plants, to H. P. Andresen Co., 4450 Ravenswood Ave., Chicago, Ill., $3,500 each.

Transmission Line—Texas—Texas Central Power Co., c/o Frost Bldg., San Antonio, (Midwest Utilities Co., Chicago, Ill., owners) will build 75 mi. power transmission line from plant at Victoria to other towns, by day labor. $100,000. Address E. B. Neiswanger, vice-pres. at Victoria.

Gas Mains—Corpus Christi, Tex.—For 31,000 ft. 6 in. gas pipe from city limits to Saxet Wells, to W. L. Pearson & Co., 1st Natl. Bank Bldg., Houston, approximately $14,000.

Transmission Line — Oklahoma — Oklahoma Gas & Electric Co., 112 North Bway., Oklahoma City, will build distribution system in Ravia, and 9 mi. transmission line between Ravia and Troy, by day labor. $25,000. Byllesby Eng. Co., 231 South La Salle St., Chicago, Ill., engrs.

Bulkheads — Los Angeles, Calif. — City Harbor Bd. will construct bulkheads at Berths 185-184, Catalina Island Terminal, by day labor. $30,500.

Materials

BIDS DESIRED

Granite Curb—Charlotte, N. C.—Feb. 16, by Bd. Comrs., City Hall, approximately 100,000 lin.ft. granite curb. E. Read, city clk.; adv. E. N.-R. Feb. 4.

Paving Brick, etc.—Cleveland, O.—Feb. 11, by City, four million 4 and 5 in. paving brick, 5,000 tons cold patch mix, 1,500 tons asphalt filler, asphalt cement and paving pitch.

Brick—Chicago, Ill.—See "Waterworks."

Road Oil—Marshfield, Wis.—Feb. 11, by J. A. Schindler, city clk., 5 or more car loads road oil 50% to 60% or 60% to 65% asphaltic content.

Road Oil—Watertown, Wis.—Feb. 10, by F. S. Weber, city clk., approximately 100,000 gal. road oil 40% to 50% or 50% to 60% asphaltic content. Noted Jan. 28.

Brick, Sewer Brick, Cement, etc. — St. Paul, Minn.—Feb. 9, by A. E. Eggert, city purch. agt., 1,200 sq.yd. 3 in. vertical fibre brick, two thousand 3.5 in. creosoted wood and 1,500 sq.yd. sandstone blocks, 1,380 bbl. Portland cement, 110,000 sewer brick, 2,050 lin.ft. vertical sewer pipe, and two thousand 24 in. and one thousand 18 in. square cement sidewalk tile, for Dept. Pub. Wks.; also 250 bbl. Portland cement for Dept. Educ.

Pipe, etc.—Spokane, Wash.—Feb. 11, by C. T. Bogart, purch. agt., 45,500 ft. ¾- to 2-in. galvanized pipe, valves, cocks, saddles, nipples, etc.

Asphalt, etc.—Ontario—Feb. 23, by S. L. Squire, deputy minister highways, Dept. Pub. Hys., Parliament Bldgs., Toronto, asphalt, tar, road oil, crushed stone, etc., for provincial highways. $200,000. R. M. Smith, 110 University Ave., Toronto, engr.

BIDS RECEIVED

Sand Grit, etc.—Long Island City, N. Y.—M. E., Connolly, pres. Queens Boro, Queens Subway Bldg., Jan. 29, 5,000 cu.yd. sand grit, from Rossoff Sand & Gravel Corp., 152 West 42nd St., New York City, $11,250; 23,000 tons steam ashes, from E. B. Simpson, Inc., Hempstead Turnpike, Hollis, $31,520; 350,000 gal. macadam binder and 600,000 gal. road oil for cold application, from Standard Oil Co. of New York, 23 Bway., New York City, $23,884 and $37,560 respectively. Noted Jan. 28.

Sand Grit, etc.—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., Jan. 28, 3,000 cu.yd. sand grit, from Rosoff Sand & Gravel Co., 152 West 42nd St., and from Gallagher Shand, Inc., 420 East 105th St., $4,410 each; 4,000 cu.yd. course aggregate, from Calvin Tompkins Co., 30 Church St., $8,560; 600 tons asphaltic joint filler, from Standard Oil Co. of New York, 26 Bway., $12,936, 20,000 bags Portland cement, from P. Solomone, 1358 Brook Ave., $13,900; 3,000 cu.yd. concrete and paving sand, from Gallagher Shand Inc., 420 East 105th St., and from Hygrade Builders Supply Co., 6th St. and 2nd Ave., Brooklyn, $4,410 each; 50,000 five in. granite paving blocks, from J. Meehan, 90 West St., $6,725; 4,000 tons inorganic dust, from E. Meyer & Co., 25 Church St., $18,880; and iron castings to Corporation Yards, from Campbell Fdry. Co., 313 Manor Ave., Harrison, N. J., $2,824. Noted Jan. 21.

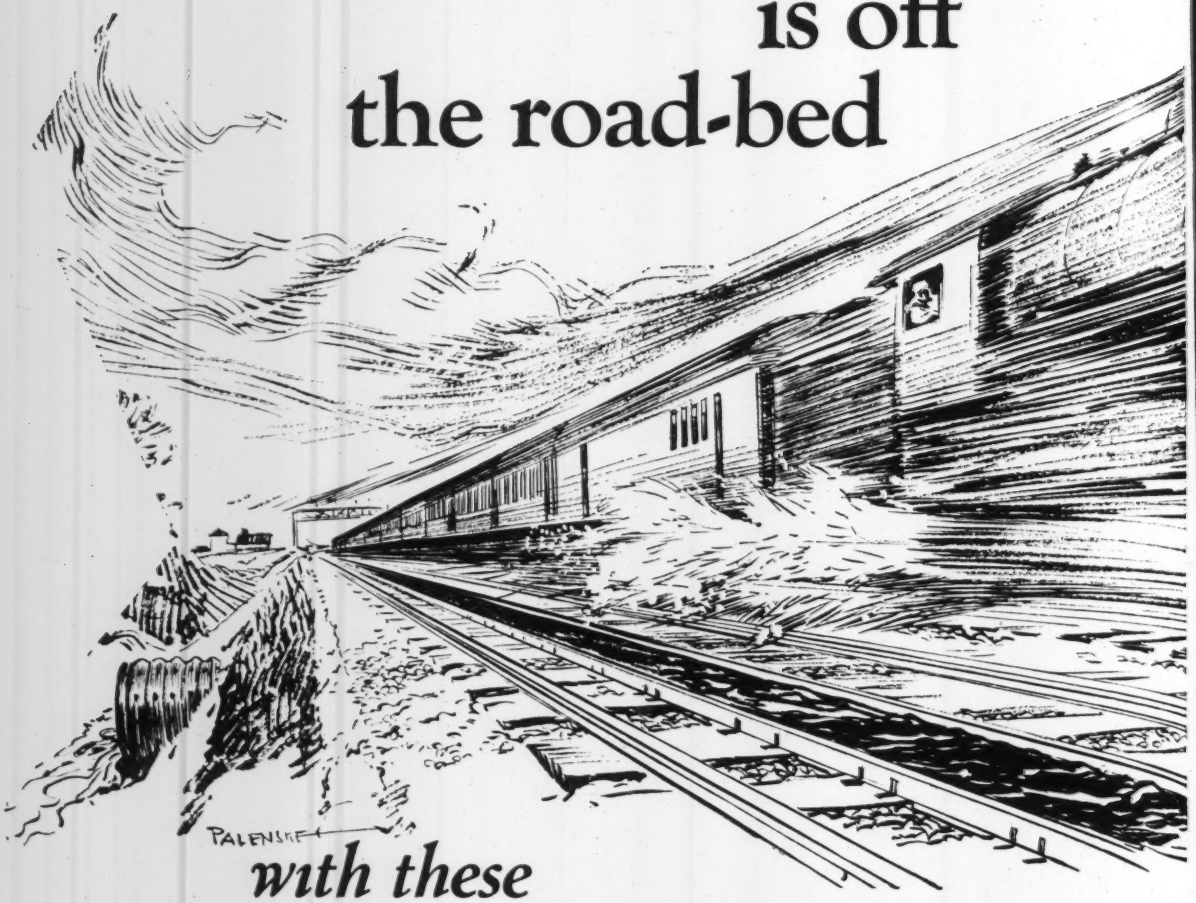
CONTRACTS AWARDED

Lime—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 1,000 tons lime to various disposal plants, here, to Superior Lime Corp., 171 Morgan Ave., Brooklyn, $16,900. Noted Jan. 14.

Concrete Sand, etc.—New York, N. Y.—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., 100 cu.yd. concrete and paving stone, also 4,000 cu.yd. 1½ in. waterbound, 2,000 cu.yd. broken and 3,000 cu.yd. ¾ in. stone, to United Sand & Gravel Corp., 425 West 218th St., $2,520 and $30,150 respectively; 7,000 cu.yd. binder stone, to Calvin Tompkins, 30 Church St., $13,860; 10,000 cu.yd. asphalt sand, to Z. Mahoney, 557 46th St., Brooklyn, $12,300; 20,000 cu.yd. steam boiler ashes, to Spedero Contg. Co., 3883 Taddington Ave., $19,600; long leaf yellow pine lumber, to H. H. McNeil Lumber Co., 603 East 62nd St., $4,462; 150 tons pitch joint filler, to F. J. Lewis Mfg. Co., Eastern Blvd. and East 177th St., $3,900; 800,000 gal. bituminous road material, to Texas Co., 17 Battery Pl., $53,600; 125,000 gal. tar for patching and 250,000 gal. bituminous road material, to Barrett Co., 40 Rector St., $20,250 and $27,250 respectively; 1,200 tons asphaltic cement, to Warner Quinlan Co., 79 Wall St., $25,476; 5,000 bags Portland cement, to P. Solomone, 1358 Brook Ave., $3,475; and 900 tons inorganic dust, to New York Trap Rock Co., 101 Park Ave., $4,356. Grand total $221,199. Noted Jan. 14.

See proposal advertisements on page 155, Advertising Section.

A matter of seconds—
is off
the road-bed



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New ARMCO

for

Multiple track drainage
Tunnel drainage
Side hill storm drains
Track pan drainage
Water station and industrial trackage
or wherever seepage, springs or other causes demand sub-drains.

Extensive tests have proved that drainage with the new Armco flexible sub-drain is a matter of seconds. Throw a quantity of water on the surface above one of these pipe and all but instantly you will have a free flow from the pipe. The track stays dry. Continuous operation is assured.

This unusual action has been secured by unusual construction. Water can enter at every corrugation, the full length of the pipe (for the pipe is perforated in each valley two-thirds of the way around the circumference of the pipe).

Filling in above these pipe with ballast gives an open course for the water all along the pipe—not just at occasional joints. What is more, the joints of this pipe can be made tight; solid materials cannot enter at these points. Then the bottom third of the pipe is a solid iron wall. Fine materials cannot ooze up from below and block the flow of water.

The pipe can be installed without traffic inter-

TRADE MARK ARMCO REG. U.S. PAT. OFF.

INGOT IRON

ARMCO

Assures a dry track for con-

CONSTRUCTION NEWS

Engineering News-Record, Feb. 11, 1926

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Hydro-electric Development, Seattle, Wash., City Light Dept. plan development, total, $14,000,000.

Road work, Des Moines, Iowa State Hy. Dept. plans road work in various counties, total $10,000,000.

Bridge, Rhode Island, Mt. Hope Bridge Comn., Providence, plan bridge, $6,000,000.

Street improvement, St. Louis, Mo., Bd. Pub. Serv. plans street work, $4,280,000.

Railway, Virginia, Louisville & Nashville R.R. Co. plans 13.87 mi., $5,287,000.

Railway, North Carolina-Southern Ry. plans grade reduction, $4,000,000.

Sewers, St. Louis, Mo., Bd. Pub. Serv. plans sewers, $2,789,900.

Paving, Milwaukee, Wis., Dept. Pub. Wks. plans paving, $2,500,000.

Theatre and office, Denver, Colo., United Theatres & Bldg. Co. having plans prepared, $2,000,000.

Dam, Texas, surveys being made for large dam and several smaller ones, $2,000,000.

Street improvement, New Orleans, La., Council plans street work, $2,000,000.

Hotel Tampa, Fla., Tampa Beach, Inc., plans building, $1,500,000.

Temple, Kansas City, Mo., Scottish Rite Temple Assn. having plans prepared, $1,500,000.

Office, Dallas, Tex., General Building Corp. having plans prepared, $1,500,000.

Clinic, Rochester, Minn., Mayo Clinic making plans, $1,500,000.

Bids Wanted On Big Jobs

Hall of Records, Newark, N. J., Mar. 3, by Essex Co., $2,100,000.

Bridge, Minneapolis, Minn., city soon takes bids, $1,100,000.

Large Contracts Let During Week

Terminal warehouse, Detroit, Mich., Coe Terminal Warehouse to Walbridge Aldinger Co., $3,000,000.

Waterworks, Ft. Smith, Ark., Ft. Smith Waterworks Dist. by day labor, $1,250,000 to $3,000,000.

Apartment, Chicago, Ill., Cornelia Building Corp. to Collins, Murphy & Jackson, $2,400,000.

Bank and Office, New York, N. Y., Oceanic Investing Co. to Caldwell-Wingate Co., $1,500,000.

Dormitories, Totowa, N. J., B. G. Lewis, Comr., for several contracts, total, $1,414,531.

Bridge, Washington, D. C., Arlington Memorial Bridge Comn. to H. P. Converse, $1,299,000.

Coliseum, Coral Gables, Fla., Coliseum Corp. to Thompson-Starrett Co., $1,000,000.

Lock and dam, Illinois, Dept. of Purchases and Construction, to Woods Bros. Constr. Co., $1,475,832.

PROPOSALS

For Proposals Advertised
see pages 130-133
Advertising Section

Bids Close		See Eng. News-Record
	WATERWORKS	
Feb. 15	Ohiowa, Neb.	Jan. 28
Feb. 15	Wanamingo, Minn.	Feb. 4
Feb. 15	Cincinnati, O.	Feb. 11
Feb. 15	Spring Lake, N. J.	Feb. 11
Feb. 16	St. Paul, Minn.	Feb. 11
Feb. 16	Knoxville, Tenn.	Jan. 21
Feb. 16	St. Louis, Mo.	Jan. 21
Feb. 17	Baltimore, Md.	Feb. 11
Feb. 17	Halfway, Mich.	Feb. 11
Feb. 18	Lock Haven, Pa.	Jan. 28
Feb. 18	Buffalo, N. Y.	Feb. 11
Feb. 19	Long Island City, N. Y.	Feb. 11
Feb. 24	Willard, N. Y.	Jan. 21
Feb. 25	Potsdam, N. Y.	Feb. 4
Feb. 26	Dunkirk, N .Y.	Feb. 11
	Adv. Feb. 11.	
Mar. 1	Wenatchee, Wash.	Feb. 4
Mar. 3	Greenville, Tex.	Feb. 4
	Adv. Feb. 4 and 11.	
	SEWERS	
Feb. 13	Milwaukee, Wis.	Feb. 4
Feb. 16	St. Louis, Mo.	Jan. 28
Feb. 16	Charlotte, N. C.	Feb. 4
Feb. 16	Tampa, Fla.	Feb. 11
Feb. 17	Grand Rapids, Mich.	Jan. 28
Feb. 26	Louisville, Ky.	Feb. 4
	Adv. Feb. 4 and 11.	
Mar. 1	Clayton, Mo.	Jan. 28
Mar. 2	Jacksonville Beach, Fla.	Feb. 4
	Adv. Feb. 4 and 11.	
Mar. 2	Waco, Tex.	Feb. 11
Mar. 10	Waco, Tex.	Jan. 7
Mar. 15	Waco, Tex.	Jan. 21
	WASTE DISPOSAL	
Feb. 16	Phila., Pa.	Feb. 11
	BRIDGES	
Feb. 16	Louisiana	Jan. 21
Feb. 16	Indiana	Feb. 4
Feb. 16	Denison, Ia.	Feb. 11
Feb. 17	Michigan	Feb. 4
Feb. 19	Dayton, O	Feb. 4
Feb. 19	Illinois	Feb. 11
Feb. 20	Racine, Wis.	Feb. 11
Mar. 1	Key West, Fla.	Jan. 21
	Adv. Jan. 21 to Feb. 11.	
Mar. 18	Laverne, Okla.	Feb. 11
	DAMS	
Feb. 16	Concord, N. C.	Feb. 4
Mar. 15	Los Angeles, Calif.	Jan. 28
Mar. 23	Wellington, New Zealand	Jan. 21
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES RIVER AND HARBOR	
Feb. 18	Mobile, Ala.	Jan. 21
Feb. 18	Los Angeles, Calif.	Jan. 28
Feb. 18	St. Augustine, Fla.	Jan. 28
	Adv. Jan. 28 to Feb. 11.	
	STREETS AND ROADS	
Feb. 15	Anderson, Ind.	Jan. 21
Feb. 15	New Jersey	Jan. 28
Feb. 15	Birmingham, Ala.	Feb. 4
Feb. 15	Groesbeck, Tex.	Feb. 4
Feb. 15	San Diego, Calif.	Feb. 4
Feb. 15	Charleston, W. Va.	Feb. 4
Feb. 16	St. Louis, Mo.	Jan. 21
Feb. 16	Washington	Jan. 28
Feb. 16	Rushville, Ind.	Jan. 28
Feb. 16	Virginia	Feb. 4
Feb. 16	Charlotte, N. C.	Feb. 4
Feb. 16	South Carolina	Feb. 4
Feb. 16	Milton, W. Va.	Feb. 4
Feb. 16	Portsmouth, O.	Feb. 11
Feb. 16	Pennsylvania	Feb. 11
Feb. 16	West Liberty, Ia.	Feb. 11
Feb. 16	Corydon, Ia.	Feb. 11
Feb. 17	Batavia, Ill.	Feb. 11
Feb. 18	Key West, Fla.	Feb. 11
Feb. 18	McPherson, Kan.	Feb. 11
Feb. 18	Pittsfield, Ill.	Feb. 11
Feb. 18	Conway, S. C.	Feb. 4
	Adv. Feb. 4 and 11.	
Feb. 18	Louisiana	Feb. 4
Feb. 18	Albia, Ia.	Feb. 11
Feb. 19	Illinois	Feb. 11
Feb. 19	Pennsylvania	Jan. 14
Feb. 19	Dunn, N. C.	Feb. 4
Feb. 19	Hartford City, Ind.	Feb. 4
Feb. 19	Ohio	Feb. 11
Feb. 20	Pennsylvania	Jan. 14
Feb. 22	Ontario	Jan. 28
Feb. 22	Georgetown, Tex.	Feb. 4
Feb. 22	Seattle, Wash.	Feb. 11
Feb. 23	Seattle, Wash.	Feb. 11
Feb. 23	Carroll, Ia.	Feb. 11
Feb. 23	McPherson, Kan.	Jan. 28
Feb. 23	Louisiana	Jan. 28
Feb. 23	Peekskill, N. Y.	Feb. 4
	Adv. Feb. 4 and 11.	
Feb. 23	Louisiana	Feb. 4
Feb. 23	Hamburg, N. Y.	Feb. 11
Feb. 23	Greensburg, Pa.	Feb. 11
Feb. 23	Los Angeles, Calif.	Feb. 11
Feb. 24	Nebraska	Feb. 4
Feb. 25	Kenosha, Wis.	Jan. 14
Feb. 25	Nebraska	Feb. 4
Feb. 26	Kittanning, Pa.	Jan. 28
	Adv. Jan. 28 to Feb. 11.	
Feb. 26	Nebraska	Feb. 4
Feb. 28	Indiana	Feb. 4
Mar. 1	Pensacola, Fla.	Feb. 11
Mar. 1	Selma, Ala.	Feb. 11
Mar. 1	Birmingham, Ala.	Feb. 11
Mar. 1	Ebensburg, Pa.	Feb. 11
Mar. 2	St. Louis, Mo.	Feb. 11
Mar. 2	Florida	Feb. 11
	Adv. Feb. 11.	
Mar. 2	Pennsylvania	Feb. 4
	Adv. Feb. 4 and 11.	
Mar. 2	Louisiana	Feb. 4
Mar. 2	Chilton, Wis.	Jan. 28
Mar. 8	Dickinson, N. D.	Feb. 11
	Adv. Feb. 11.	
Mar. 10	Alabama	Feb. 11
	BUILDINGS—INDUSTRIAL	
Feb. 13	Camden, N. J.	Feb. 11
Feb. 16	Iowa City, Ia.	Feb. 4
Feb. 18	Gallipolis, O.	Feb. 4
Mar. 1	Chicago, Ill.	Jan. 14
	BUILDINGS—COMMERCIAL	
Feb. 13	Cleveland, O.	Jan. 28
Feb. 15	Regina, Sask.	Jan. 28
Feb. 15	Wash., D. C.	Feb. 4
Feb. 15	Indianapolis, Ind.	Feb. 11
Feb. 16	Phila., Pa.	Feb. 11
Feb. 16	St. Louis, Mo.	Jan. 21
Feb. 17	Omaha, Neb.	Feb. 4
Feb. 20	New Orleans, La.	Jan. 21
Feb. 23	Morehead City, N. C.	Feb. 11
Feb. 24	San Francisco, Calif.	Feb. 11
Feb. 27	Bettendorf, Ia.	Feb. 4
Mar. 1	Duluth, Minn.	Jan. 7
Mar. 1	Williamsport, Pa.	Feb. 4
Mar. 2	Columbus, O.	Feb. 11
Mar. 3	Newark, N. J.	Feb. 11
Mar. 4	West Haverstraw, N. Y.	Jan. 21
Mar. 15	Altoona, Pa.	Feb. 11
Apr. 1	Lakewood (br. Cleveland), O.	Feb. 11
Apr. 1	Moline, Ill.	Jan. 14
Apr. 1	Youngstown, O.	Dec. 31

See proposal advertisements on page 130, Advertising Section.

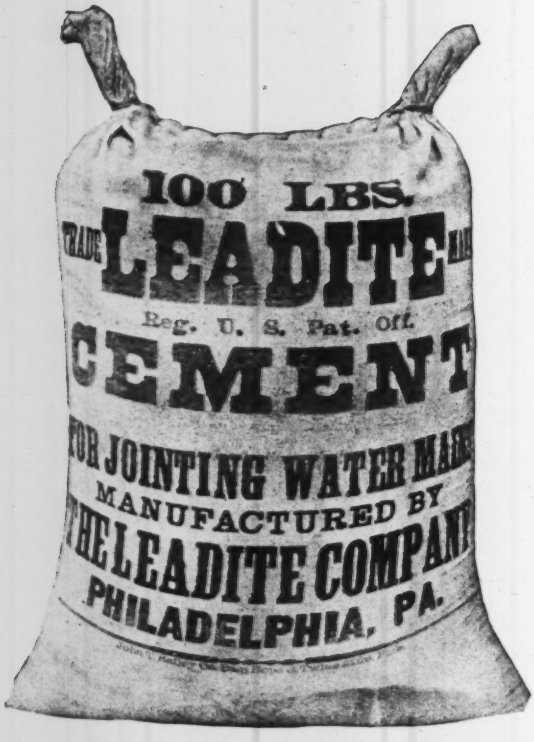
TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

A list of the Country's principal cities, large and small—

Is a list of the satisfied users of LEADITE.

Leadite Users are Leadite Boosters



EAST or West, North or South, take your pick of the cities—and you'll find many of them on the customer list of Leadite—

The country's principal cities, large and small—the country's representative water works engineers, construction companies and water works departments of industrial plants, railroads and mines are strong for Leadite for jointing cast iron water mains—

Are demonstrating what you will be able to do when you use Leadite—

What, for instance?—

You will do away with the need for caulking—or the need for digging out for large bell holes.

You will be able to use Leadite for all sizes of pipe from 4 in. to 60 in. diameter—under all pressures and conditions—

Give Leadite a trial.

Leadite resists electrolysis.

Leadite does not corrode or rust.

Leadite has been successfully tested and used for over 30 years.

Thousands of miles of pipe jointed with Leadite are in service.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1511 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids Close — See Eng. News-Record

BUILDINGS—EDUCATIONAL, RELIGIOUS

Feb. 13 Parma (Cleveland P. O.), O. ..... Feb. 4
Feb. 15 Johnstown, Pa. ..... Feb. 4
Feb. 15 Torrington, Conn. ..... Feb. 11
Feb. 16 Winchester, Mass. ..... Feb. 11
Feb. 16 Wellsville, N. Y. ..... Jan. 21
Feb. 17 Los Angeles, Calif. ..... Feb. 11
Feb. 18 Williamsport, Pa. ..... Feb. 4
Feb. 18 Ravenna, O. ..... Feb. 11
Feb. 19 Detroit, Mich. ..... Feb. 11
Feb. 19 Raymond, Miss. ..... Feb. 4
Feb. 19 Wash., D. C. ..... Feb. 11
Feb. 19 Paulsboro, N. J. ..... Feb. 4
Feb. 19 Minneapolis, Minn. ..... Feb. 11
Feb. 22 Ferndale (br. Detroit), Mich. ..... Jan. 21
Feb. 23 Beloit, Wis. ..... Jan. 28
Feb. 23 Marshfield, Wis. ..... Feb. 4
Feb. 23 Detroit, Mich. ..... Feb. 11
Feb. 23 Chicago, Ill. ..... Feb. 11
Feb. 24 Laurel, Miss. ..... Feb. 11
Feb. 24 Williamsport, Pa. ..... Jan. 7
Feb. 27 Duluth, Minn. ..... Dec. 17
Feb. 27 Maplewood (br. South Orange), N. J. ..... Feb. 11
Adv. Feb. 11.
Mar. 1 Newberry, Mich. ..... Jan. 28
Mar. 3 Baton Rouge, La. ..... Jan. 21
Mar. 8 Dayton, O. ..... Feb. 11
Mar. 15 Lewistown, Pa. ..... Jan. 21

FEDERAL GOVERNMENT WORK

Feb. 16 Hull—St. Louis, Mo. ..... Jan. 21
Adv. Jan. 21 to Feb. 11.
Feb. 16 Refrigeration Plant—Hot Springs, S. D. ..... Jan. 28
Feb. 16 Post Office—Troy, N. Y. ..... Jan. 28
Feb. 18 Breakwater — Buffalo, N. Y. ..... Jan. 28
Feb. 19 Radial Gates—Idaho and Oregon ..... Jan. 14
Feb. 19 Mezzanine—Cincinnati, O. ..... Feb. 4
Feb. 19 Cable, Transformer, etc. — Wash., D. C. ..... Feb. 11
Feb. 23 Valves, etc.—Nebraska and Wyoming ..... Jan. 28
Feb. 23 Remodeling — Brownsville, Tex. ..... Jan. 28
Feb. 23 Remodeling—Evanston, Ill. ..... Feb. 4
Feb. 24 Administration—Pearl Harbor, T. H. ..... Jan. 7
Feb. 24 Water Meter, etc.—San Diego, Calif. ..... Jan. 28
Feb. 24 Pipe Masts—Panama, C. Z. ..... Feb. 4
Feb. 25 Remodeling—Hutchinson, Kan. ..... Feb. 4
Feb. 26 Dredging — New York, N. Y. ..... Jan. 28
Adv. Jan. 28 to Feb. 11.
Feb. 26 Mailing Shelter—Macon, Ga. ..... Feb. 11
Adv. Feb. 11.
Mar. 1 Cruiser—Wash., D. C. ..... Dec. 31
Mar. 1 Elevator—Wash., D. C. ..... Feb. 4
Adv. Feb. 4 and 11.
Mar. 2 Water Tanks—Palo Alto, Calif. ..... Feb. 4
Mar. 3 Hospital—Mare Island, Calif. ..... Jan. 21
Mar. 3 Compass Station—Cape Lookout (mail Beaufort), N. C. ..... Feb. 4
Mar. 9 Outlet Pipes—Oregon ..... Feb. 4
Adv. Feb. 4.
Mar. 9 Cement—Louisville, Ky. ..... Feb. 11
Adv. Feb. 11.
Mar. 15 Breakwater—Hilo, T. H. ..... Jan. 21
Adv. Jan. 21 to Feb. 11.

UNCLASSIFIED

Feb. 13 Hopper—Newark, N. J. ..... Feb. 11
Feb. 16 Culverts—Atlantic, Ia. ..... Feb. 11
Feb. 17 Silo and Shop—Detroit, Mich. ..... Feb. 11
Feb. 24 Sanitary Work, etc.—Willard, N. Y. ..... Feb. 4
Adv. Jan. 21 to Feb. 11.
Mar. 1 Lighting System—New York City, N. Y. ..... Feb. 11
Mar. 23 Panels, Filters, etc.—Wellington, N. Z. ..... Jan. 21

MATERIALS

Feb. 16 Granite Curb—Charlotte, N. C. ..... Feb. 4
Adv. Feb. 4.
Feb. 17 Cement—Detroit, Mich. ..... Feb. 11
Feb. 17 Sand Grit, etc.—New York City, N. Y. ..... Feb. 11
Feb. 18 Pig Lead—Chicago, Ill. ..... Feb. 11
Feb. 23 Pipe—North Dakota ..... Feb. 11
Feb. 23 Asphalt, etc.—Ontario ..... Feb. 4
Mar. 2 Creosoted Ties—Phila., Pa. ..... Feb. 11
Adv. Feb. 11.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Akron—Village Bd. plans extending mains in various streets. $15,000.

N. J., Asbury Park—City Comm. plans 2 additional wells to obtain 5 m.g.p.d. N. Rogers, Asbury Park, engr.

N. J., Red Bank—Mayor and City Council plan water filtration plant. $60,000. Engineer not selected.

O., Barberton—Bd. Control takes bids in spring mains in East Side. $150,000.

O., Columbus—Making plans 1,300 ft. 12 in. mains in Whittier St., $5,850; 3,700 ft. 12 in. mains in 5th Ave., $16,650; and 3,900 ft. 16 in. mains in Parsons Ave. and Sycamore St., $20,670. R. H. Simpson, city engr.

Ill., Warsaw—Election Feb. 16, $30,000 bonds, waterworks improvements, incl. 250 g.p.m. rapid sand filter plant with pumps, motors, etc., 2,500 ft. 4 and 8 in. c.i. mains, 100,000 gal. tank on tower, etc. Pending outcome of above bond issue bids to have been opened Jan. 26 were delayed. E. Flad & Co., 1312 Chemical Bldg., St. Louis, Mo., engrs. Noted Dec. 17.

Wis., Edgerton—Plans artesian well. $15,000. A. W. Ely, 10 North Bluff St., Janesville, engr.

Kan., Colby — Takes bids latter part February, waterworks improvements. To exceed $15,000. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs. Noted Dec. 10.

Ark., Fayetteville—Soon takes bids distribution mains in vicinity of City Hall. $20,000; and mains in Rose Hill Waterworks Impvt. Dist., $26,000. E. M. Ratcliffe, Stone Bldg., engr. Noted Dec. 17.

Ark., Sheridan—Made preliminary plans organizing Improvement Dist. for new water plant. $20,000. N. A. Baker, recdr. Engineer not announced.

Tex., Asherton—Texas Central Power Co., c/o Frost Bldg., San Antonio, plans waterworks. $35,000. Address S. M. Udden, mgr.

Tex., Carrollton — Voted $40,000 bonds complete waterworks. Municipal Eng. Co., 602 Praetorian Bldg., Dallas, engrs.

Okla., Blackwell—Plans extending mains in various streets and takes bids in spring for cast iron pipe for same. $30,000. W. Ritzhaupt, Blackwell, engr.

Okla., Davenport—Voted $25,000 bonds extending mains in various streets. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs. Noted Jan. 7.

Okla., Hughes—Made preliminary plans new waterworks. $22,000. G. Crane, mayor. Engineer not selected.

Okla., Tulsa — Made preliminary plans 18,000 ft. 30 in. c.i. mains from Mohawk Lake to east side reservoir. $275,000. Holway Eng. Co., Wright Bldg., engr.

Okla., Verden — Making surveys new waterworks. $60,000. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs.

Calif., Eureka—Plans to purchase 3,500 lin.ft. 8 in. Class "B" c.i. pipe with prepared joints for use of city water dept. J. Griffiths, city supt. Pub. Wks.

Calif., Santa Ana — City plans to purchase one 1,400 g.p.m. deep well pump; and one 60 hp. vertical motor. E. L. Vegely, city clk.

Ont., Toronto — York Twp. plans 11,000 lin.ft. 6 in. c.i. mains in Elora Rd., Guy and Heath Sts., Cameron, Durham, Hyde, Glenmora, Keywest, Allenvale, Glenholme and Kendal Aves. $20,000. F. B. Goedike, 40 Jarvis St., engr.

Ont., Toronto — City Council plans extending high pressure c.i. and steel pipe, etc., between Bathurst and Sherbourne Sts. south of Queen St., for high pressure fire system. $616,818. R. C. Harris, City Hall, engr.

Ont., Toronto—Plans 11,000 lin.ft. 24 and 30 in. c.i. mains in Boulevard Dr., Bathhurst and Fleet Sts., etc. $374,073. R. C. Harris, City Hall, engr.

Ont., Willowdale—North York Twp. plans 5,500 ft. 6 in. c.i. mains, etc., for area west of Humber Blvd. $20,000. James, Proctor & Redfern, 36 Toronto St., Toronto, Ont., engrs.

BIDS DESIRED

N. Y., Buffalo—Feb. 18, by Commissioner Pub. Wks., 1,720 tons 6- to 36-in. c.i. pipe, 42 tons 6- to 36-in. c.i. specials, etc. $6,000. J. J. Love, Municipal Bldg., comr.

N. Y., Dunkirk — Feb. 26, by Water Comrs., 425 Central Ave., 6 m.g. rapid sand filtration plant, appurtenances, etc. J. N. Chester Engineers, Union Bank Bldg., Pittsburgh, Pa., engrs.; adv. E. N.-R. Feb. 11.

N. Y., Long Island City—Feb. 19, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains, etc., in Cross Island Blvd., 45th and 55th Drs., 60th, 32nd, 33rd, Ely, Griffith, 41st and Oak Aves., Dartmouth, 167th, 170th, 260th, 261st, Sunswick, 47th, Hedwig, 43rd, 67th, 90th, 99th, 112th 147th and 201st Sts.

N. J., Spring Lake — Feb. 15, by D. H. Hills, mayor and Boro Council, cross-compound steam 2 stage, air compressor, etc. J. L. Sweigard, 1120 Lincoln Bldg., Phila., Pa., engr. Noted Dec. 31.

Md., Baltimore—Feb. 17, by Bd. Awards, c.i. pipe and fittings for Bureau Water Supply. B. L. Crozier, City Hall, ch. engr.

O., Cincinnati—Feb. 15, by Director Pub. Serv., 15 tons special castings, 1,225 tons 30 in., 20 tons 24 in. and 8 tons 16 in. c.i. pipe, for water distribution system in Burk and Bevis Aves., also Duck Creek Rd. from Fairfax to Dana Aves. $55,000. C. D. Sherrill, City Hall, engr.

Mich., Halfway—Feb. 17, by E. A. May, village clk., 900 ft. c.i. mains in Ash Ave., and 1,025 ft. in Gratiot Ave., both 8 in.; also 1,275 ft. in Birch Ave., 1,100 ft. Chestnut Ave., and 825 ft. in Magnolia Ave., all 6 in. R. H. O'Mara, Kaiser Bldg., village engr.

Minn., St. Paul—Feb. 16, by A. E. Eggert, city purch. agt., c.i. gate valves and service connection boxes, for Water Dept. G. M. Shepard, city engr.

BIDS RECEIVED

O., Cincinnati—For 73,300 ft. 4- to 12-in. c.i. mains in various streets, from M. F. Quill, 409 Gerke Bldg., $84,946. Engrs. est. $75,000. Noted Jan. 28.

O., Cincinnati—Director Pub. Serv., Jan. 27, 875 tons 4- to 12-in. c.i. pipe and special castings, from U. S. Cast Iron Pipe Co., Addyston, $49,000. Engrs. est. $50,000. Noted Jan. 21.

Wis., Kenosha—C. M. Osborn, city mgr., Jan. 15, hydrants, gate valves, etc., from Chapman Valve Mfg. Co., 650 West Lake St., Chicago, Ill. $5,558.

Wis., Racine — Bd. Water Comrs., City Hall, Jan. 30, general contract filter plant, from Peterson-Calwell Co., Inc., 646 Builders Exch., Minneapolis, Minn., (A) $177,861 (B) $177,931 (C) $180,181; filter equipment, from Keystone Mchy. & Eng. Co., Sharon, Pa., $58,500; wash water tank, from Graver Corp., 28 East Johnson Blvd., Chicago, Ill., $4,635; valves, from Ludlow Valve Mfg. Co., 209 South La Salle St., Chicago, Ill., $3,066; and c.i. pipe, from Lynchburg Fdry. Co., 122 South Michigan Ave., Chicago, Ill., $9,884. Noted Jan. 14.

Wis., Wauwatosa—Bd. Purchases, A. V. Brigham, secy., Jan. 29, from Michigan Valve & Fdry. Co., 3631 Parkinson St., Detroit, Mich., 50 hydrants at $75 each, fifty 6 in. gate valves $22.80, and twelve 12 in. gate valves $68.20; from H. W. Evans, 53 West Jackson Blvd., Chicago, Ill., seventy-five 6 in. roadway boxes at $4.50, $6.75 and $7 each; from Rundle-Spence Mfg. Co., 35 4th St., Milwaukee, one thousand ¾ in. cocks at $0.63 each, three hundred ¾ in. corporation cocks $0.55, one thousand 1 in. curb stops $0.95, three hundred each ¾ in. curb stops $0.66, ⅝ in. $0.52, and ¾ meter stops $0.67, also six hundred each ⅝ in. meter couplings $0.13, and ¾ in. meter couplings $0.20. Noted Jan. 21.

Minn., Minneapolis — F. S. Gram, city purch. agt., Jan. 27, from Crane Co., 400 3rd Ave. N., five thousand ⅝ in. water meters at $6.65 each, one hundred and fifty ¾ in. $10.29, fifty 1 in. $15.33, and thirty 1.5 in. $27.80.

Minn., St. Cloud—J. D. McKenzie, city clk., Jan. 19, 2,030 ft. 12 in. c.i. mains in various streets and 700 lin.ft. 12 in. c.i. mains laid under Mississippi River, from H. Nodland, Starbuck, $29,474. Noted Jan. 14.

Wash., Seattle—Bd. Pub. Wks., Jan. 22, reconstructing mains in Federal Ave., from H. Argenteria, 1918 Weller St., $49,239. Engrs. est. $51,706.

CONTRACTS AWARDED

Md., Towson — Comrs. Baltimore Co., Court House, mains, etc. as listed in Proposals 7W and 8W in Pikesville, to Ligon & Ligon, 200 East Lexington St., Baltimore, $22,443. Noted Jan. 21.

W. Va., Wheeling—Mains in Park View, Springdale, Edgwood and Pleasant Sts., to Consolidated Eng. Co., Wheeling, $36,223. Noted Jan. 28.

Fla., Titusville — For 200,000 gal. reservoir with all connections, to J. B. McCrary Co., Citizens & Savings Bank Bldg., Atlanta, Ga., $59,939.

See proposal advertisements on page 130, Advertising Section.

When Emergency Demands

Secure Strong Concrete in *3 Days*

In all types of concrete construction emergencies sometimes arise which demand immediate completion and use of the improvement.

On road, street and bridge repairs, railroad maintenance, mining improvements and industrial developments, rush work often is necessary.

In such cases, you do not want to wait the number of days usually allowed for concrete to reach the desired strength. You do not need to. You can, with standard *Universal* cement, the same quality *Universal* you have always used, obtain quick-hardening, *strong* concrete in *3 days* by using simple methods that thousands of laboratory tests and actual construction experience prove will give the desired results.

Detailed information on this time-saving concrete made with standard *Universal* cement will gladly be furnished on request to

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland New York

Concrete for Permanence

Waterworks (Continued)

O., Dayton—For 5,030 tons pipe and fittings, to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., $277,000.

O., Dayton—G. F. Baker, dir. Pub. Serv., City Bldg., new pumping plant, incl. concrete footings for pumps and motors, etc., to F. H. Smith, Inc., Winters Bank Bldg., $162,923. Engrs. est. $175,000. Noted Jan. 14.

O., Yorkville—For 4½ mi. mains, etc., in various streets, to G. J. Coffey Co., Rolf Apt., Wheeling, W. Va., $56,465. Noted Dec. 17.

Mich., Detroit—W. J. Black, comr. Purchase & Supplies, 710 Marquette Bldg., 50 tons lead pipe for Dept. Water Supply, to Michigan Smelting & Refining Co., 7885 Joseph Campau Ave., at $9.985 per 100 lb., total $9,985.

Mich., Detroit — Dept. Water Supply, 2,000 tons 36 in. c.i. pipe, to U. S. Cast Iron Pipe & Fdry. Co., 760 East Pearl St., Burlington, N. J. at $42.60 per ton, and 2,500 tons, to B. Nicoll & Co., 294 Madison Ave., at $42.48 per ton; also 706 ft. special steel pipe with fittings, to Biggs Boiler Wks. Co., 250 Cass Ave., Akron, O., $22,974. Noted Jan. 28.

Wis., Kenosha—C. M. Osborn, city mgr., 400 tons 6 in., 150 tons 8 in. and 190 tons 12 in. c.i. pipe, to Natl. Cast Iron Pipe Co., 122 South Michigan Blvd., Chicago, Ill., $37,447 curb and street boxes, to J. B. Clow & Sons, North Talman Ave. and West Lake St., Chicago, Ill., $2,020, for Water Dept.

Wis., Milwaukee—Central Bd. Purchases, c.i. water pipe, to Glamorgan Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, Ill., $142,200; special castings, to Amer. Cast Iron Pipe Co., 38 South Dearborn St., Chicago, Ill., $10,559; offsets, to J. B. Clow & Sons, North Talman Ave. and West Lake St., Chicago, Ill., $1,956; and special tapping sleeves, to B. Hoffmann Mfg. Co., 1819 St. Paul Ave., $1,114. Grand total $155,829. Noted Jan. 28.

Minn., Minneapolis — F. S. Gram, city purch. agt., special castings, to Amer. Brake Shoe Fdry. Co., 37th Ave. N. E. and University Ave., $71.75 per ton; and 8,000 ft. c.i. pipe, to Amer. Cast Iron Pipe Co., 712 Plymouth Bldg., $0.935 per ft. Noted Jan. 21.

Minn., Minneapolis — F. S. Gram, city purch. agt., hydrants and valves, to Columbian Iron Wks., 811 Boyce St., Chattanooga, Tenn., $82.25 each and $6,252 respectively. Noted Feb. 4.

Ark., Ft. Smith—Ft. Smith Waterworks Dist., J. H. Parker, chn., will obtain new waetr supply from one of Ozark Mountain streams, by day labor. $1,250,000-$3,000,000. H. S. Peck & W. H. Evans, Ft. Smith, engrs.

Tex., Port Arthur — City Comrs., City Hall, water purification plant, handling 5 m.g. Neches River water daily, to Wharton & Lee, 231 West Commerce St., San Antonio, $188,780, also 2 earthen storage reservoirs, 150 ft. capacity, to Howard Kenyon Dredging Co., 3603 McKinney Ave., Houston, $63,753. Noted Jan. 7.

Sewers

PROPOSED WORK

Pa., Pittsburgh—Soon takes bids sewer in Greenway Dr. $60,000. Bureau Eng. Dept. Pub. Wks., engrs. Noted Jan. 21.

W. Va., Huntington—City Comrs. soon take bids complete sewerage system $771,000. A. Maupin, Huntington, engr.

N. C., Charlotte—Plans sewage disposal plant, west side. $225,000. W. S. Staneill, comr. Pub. Wks.

Fla., Okeechobee—Voted $88,000 bonds, sewers in various streets.

Tenn., Nashville—Making surveys trunk line sewers for annexed territory. $1,000,000. W. W. Southgate, city engr. Noted Dec. 31.

O., Cincinnati — Plans 1,954 ft. 33- to 51-in. brick or concrete trunk and 587 ft. 24 in. vitr. clay sewers in Ravine north of Foley Rd. $26,700. C. O. Sherrill, City Hall, engr.

O., Massillon—Plans sanitary sewers in North Mill, Clay and Cherry Sts. $40,000.

Ill., Oak Park—Bd. Local Impvts. takes bids probably in May, 2.5 mi. 12- to 18-in. tile sewers in various streets in North West Section. $70,000. W. Thomas, City Hall, engr.

Wis., North Fond du Lac (Fond du Lac P. O.)—Defeated $13,000 bonds, 2 sewage pumps. J. Donohue Eng. Co., 608 North 8th St., Sheboygan, engrs. Noted Jan. 21.

Kan., Colby—Takes bids latter part of February sanitary sewers in various streets. To exceed $25,000. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, plans sewers in various streets. $2,789,900. W. W. Horner, 309 City Hall, engr.

Ark., Fayetteville—Soon takes bids extending 24,500 ft. 8- to 12-in. vitr. clay sewers in annex to Sewer Dist. 1. $26,500. E. M. Ratcliffe, Fayetteville, engr. Noted Jan. 8.

Tex., Corpus Christi — Jno. B. Hawley, engr., Cotton Exch. Bldg., Ft. Worth, soon takes bids sewage disposal plant, here, for City. $250,000. Noted Dec. 3.

Tex., Frisco — Defeated $40,000 bonds, sewerage system. F. P. Schrader, mayor. Noted Aug. 20.

Tex., Uvalde—Making plans sewer improvements, extending mains, etc., in various streets. $30,000. Address H. P. Hornby, mayor.

Okla., Foss—Plans new outfall sewers in various streets and disposal plant. $25,000. J. D. Bornford, Elk City, engr.

Colo., Denver—Soon takes bids 17 mi. 8- to 24-in. vitr. sewer in Barnum Special Sanitary Sewer Dist. 1, $225,000; also 15 mi. 8- to 24-in. vitr. sewer in Barnum Special Sanitary Sewer Dist. 2, $200,000. A. K. Vickery, City Hall, engr.

Calif., Los Angeles—Made plans 14,644 ft. 8- to 18-in. cement and 7,920 ft. 6 in. house sewers, etc., in Centinela Ave.; also 9,330 ft. 6 in. house and 11,509 ft. 8 in. sewers, etc., in Burnside Ave.

Calif., Los Angeles — Los Angeles Co. Sanitation Dist. 7, defeated $4,400,000 bonds, sewers, in various streets. Noted Jan. 21.

Ont., Toronto—City Council plans 9,000 lin.ft. concrete and brick trunk sewers in South Parkdale Area from intersection Wright and Macdonnell Aves. to Lake Ontario; 1,400 lin.ft. Queen St. and O'Hara Ave. to West Lodge Ave.; and 7,000 lin.ft. Rosedale Creek from Yonge St. to Don River. $927,600. R. C. Harris, City Hall, engr.

Ont., Toronto—York Twp. making plans sewers in Dufferin St., $18,475; and Brookside Dr., $11,646. Work involves 7,500 ft. 8 in. vitr. clay pipe. F. B. Goedike, 40 Jarvis St., engr.

Ont., Toronto—Scarborough Twp., plans approximately 9,000 ft. 8 in., etc., vitr. tile lateral, service and trunk sewers in Byng, Blantyre, Godfrey, Eastwood, Kalmar and Audrey Aves. $40,000. C. E. Fraser, 1361 Kingston Rd., Toronto, engr.

B. C., Burnaby — Municipality, A. G. Moore, clk., plans lateral sewers in various streets. $80,000. E. Smith, Edmonds, engr.

BIDS DESIRED

Fla., Tampa — Feb. 16, by City Comn., 18- to 36-in. sewers in portions of Gray St., North A and Tampaina Aves., Storm Sewer 164. $25,000.

Tex., Tyler—See "Unclassified."

Tex., Waco—Mar. 2, at Office G. D. Field, city secy., sewage treatment plant, etc., Contracts 1 to 7 (inclusive).

BIDS RECEIVED

Fla., Miami—City Comn., Jan. 25, from J. B. McCrary Co., Citizens & Savings Bank Bldg., Atlanta, Ga., storm sewers in Contr. SR 67, Dists. 180-181 $73,638, Contr. SR 69, Dist. 183 $10,755, sanitary sewers in Contr. SR 65, Dists. 165, 166 and 167 $6,229, and Contr. SR 64, Dists. 146-A and 159 $2,511; from M. J. Cooney, 9 Oxford Ave., Boston, Mass., sanitary sewers in Contr. SR 65, Dists. 168-17, $78,893. Noted Jan. 7.

Calif., Los Angeles—From Janes Constr. Co., P. O. Box 217, Burbank, sewers in Bundy Dr. between San Vicente and Pico Blvds., 23,383 ft. house sewers $0.78 per ft., sewer complete $68,254.

CONTRACTS AWARDED

N. Y., St. George—J. Lynch, pres. Richmond Boro, Boro Hall, temporary sanitary sewer in Sea View Ave. from Washington Ave. to Quincy St. to Liberty Ave., to J. J. B. LaMarsh, 391 Fulton St., Brooklyn, N. Y., $103,833. Noted Jan. 28.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, to F. Berardi, 1913 Mifflin St., branch sewer in Beulah St. between Johnston and Bigler Sts. $5,676, L St. between Torresdale and Lycoming Sts. $21,108, 9th St. between Johnston and Bigler Sts. $5,971, and Smedley St. between 65th and 67th Aves. $6,511; to A. Di Sandro & Son, 3906 North 5th St., Boudinot St. between Roosevelt and Ashdale Sts., $10,771; to Leva Bros., 3851 North 10th St., Champlost Ave. between 9th and Marvine Sts., $20,562; to A. Mattia, 310 North 65th St., Folsom St. between 48th and 49th Sts., $4,102; to Higgins & Reilly, Real Estate Trust Bldg., 57th St. between Staddington and Nassau Sts. $15,223, and Percy St. between Johnston and Bigler Sts. $7,315; to Clifton Constr. Co., 131 East Berkley St., Clifton Heights, Hutchinson St. between Johnston and Bigler Sts. $5,520, also removing old and constructing new sewers in 11th, Warwick, Alder and Bigler Sts. $22,209; to A. Perna & Sons, 752 South 10th St., branch sewers in Kenmore St. between Lansdowne and Media Sts., $7,476; to E. F. Bennts, 825 East Washington Lane, 69th St. between Chester and Regents Sts., Regent St. between 68th and 69th Sts. $12,324, also Vernon St. between Chew and Boyer Sts. $8,170; to Vattieri & Pantarelli, 523 Rising Sun Ave., Spencer St. between 4th and 5th Sts., $6,943; to A. J. Henderson, 825 East Washington Lane, Wadsworth Rd. between Crittenden and Stetson Sts., $5,507; to F. T. Buckins, 4050 Kensington Ave., inlet laterals, spurs, etc., in various streets, $41,050; to J. E. Robinson, 5231 Catharine St., test borings through soil and drift also in water through soil and drift and exclusive of water, $1,845. Grand total $208,283. Noted Feb. 4.

Md., Baltimore—Bd. Awards, 21,500 lin. ft. 24- to 60-in. rein.-con. pipe, to Lock Joint Pipe Co., 9 Rutledge Ave., Ampere, N. J., $57,110. Noted Feb. 4.

Ky., Ft. Thomas—For 53,000 ft. 6- to 15-in. sewers in various streets, to J. A. Diskin & Co., Newport, Ky., $111,187. Noted Dec. 24.

Wis., Madison—H. Winckler, city clk., 299 tons c.i. for sewage disposal, to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., $21,358; 104 valves, to Kennedy Valve Mfg. Co., 116 East Miller St., Elmira, N. Y., $1,745; and 4 sluice gates, to Caldwell Wilcox Co., Newburgh, N. Y., $1,072. Grand total $24,175. Engrs. est. $25,000.

Ia., Pella—A. C. Kuyper, city clk., 23,924 ft. 6- to 10-in. vitr. clay and 300 ft. 8 in. c.i. sewers, etc., in various streets, to Redd & Tomassco, Omaha, Neb., $22,126. Noted Jan. 21.

Waste Disposal

PROPOSED WORK

Ala., Birmingham — Election Apr. 15, $400,000 bonds, 4 garbage incinerators.

BIDS DESIRED

Pa., Phila.—Feb. 16, by Dept. Pub. Wks., Bureau Street Cleaning, Schedule A, alterations to hydraulic presses and Schedule B, repair boiler stacks at garbage disposal plant, 49th St. and Schuylkill River. G. H. Biles, Dir.

Bridges

PROPOSED WORK

Rhode Island—Mt. Hope Bridge Comn., State House, Providence, submitted report 2,800 ft. concrete and steel bridge with two 1,500 ft. approaches, 40 ft. roadway, etc., connecting Bristol and Portsmouth. $6,000,000. D. O. Cargell, 21 State House, Providence, engr. Noted Jan. 28.

Tennessee—State Hy. Dept. & Pub. Wks., Nashville, takes bids about Feb. 19, rein.-con. bridges over Bledsoe, Lick and Trammel Creeks, Sumner Co. To exceed $25,000. C. N. Bass, acting comr.

Tenn., Amqui (mail Madison) — State Dept. Highways & Pub. Wks., Nashville, making surveys viaduct over Louisville & Nashville R.R. tracks, here, Davidson Co. C. N. Bass, acting comr.

Tenn., Gainesboro — Jackson Co. plans bridge over Cumberland River. To exceed $25,000.

Tenn., Memphis — Made plans viaduct over railroad tracks at Aulon Station, on Poplar Pike, Union and Madison Aves. $400,000. W. Fowler, city engr.

Wis., Milwaukee—Dept. Pub. Wks. making plans 30 ft. rein.-con. span bridge, 56 ft. roadway, etc., at 11th Ave. $25,000. M. C. Cutler, City Hall, engr.

Iowa—See "Streets and Roads."

Minn., Minneapolis—Soon takes bids 3 arch span 2,800 lin.ft. rein.-con. bridge, 60 ft. over Mississippi River, Cedar Ave. $1,100,000. Portion of work done by day labor. N. W. Elsberg, city engr.

Tex., Angleton—See "Streets and Roads."

Tex., Baird—See "Streets and Roads."

Tex., Bay City—See "Streets and Roads."

Tex., Cuero—See "Streets and Roads."

Tex., Huntsville—Walker Co., c/o T. McKinney, judge, making plans 1 span, 100 ft. concrete and steel bridge with creosoted pile trestle approaches, etc., across Harmon Creek, on Highway 19. D. K. Caldwell, Huntsville, engr.

See proposal advertisements on page 130, Advertising Section.

BRIXMENT FOR PERFECT MORTAR

The fact that over a period of ten years BRIXMENT has become the largest selling mason's cement in the world is one of the best indications that it has fulfilled every claim made for it. And a constantly increasing demand for BRIXMENT, summer and winter, is convincing evidence of its growing preference as an all-year-round mortar material. Literature describing fully its architectural, structural and economic superiority for brick, tile and stone masonry as well as for stucco mailed on request.

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BRIXMENT

Bridges (Continued)

Tex., Sanderson — See "Streets and Roads."

Oklahoma — State Hy. Dept., Oklahoma City, made surveys 2 span 170 ft. steel truss bridge on concrete piers over Washita River between Wynne Wood and Pauls Valley, $33,000 and 2 span 156 ft. steel truss bridge on concrete piers over Washita River between Paoli and Pauls Valley, $31,000, both Garvin Co.; also 3 span 114 ft. rein.-con. trestle bridge at Garfield, Tillman Co., $40,000. J. M. Page, highway engr.

Okla., Carnegie—Caddo Co. making preliminary plans 2 span 156 ft. steel truss bridge on concrete piers over Washita River, east of here. $36,000. J. M. Page, highway engr.

Wash., Everett — Snohomish Co. made plans 170 ft. steel bridge and 20 ft. concrete approach over Little Pilchuck River. R. Alverson, co. engr.

Calif. Elvas (mail Sacramento)—City of Sacramento and Sacramento Co. making surveys bridge over American River, here. To exceed $25,000. A. J. Wagner, Sacramento, city engr. C. Deterding, Jr., Sacramento, co. surv.

Ont., Toronto — Plans rebuilding plate grider and steel bridge, on Dundas St., W., $319,400. R. C. Harris, City Hall, engr.

BIDS DESIRED

Florida—See "Streets and Roads."

Illinois—Feb. 19, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, three 55 ft. span rein.-con. girder overhead bridge, Route 1, Sect. 38-V, Johnson Co.; one 60 ft. steel superstructure and repairs to abutments, Route 7, Sect. 8-D, Bureau Co.; one 40 ft. and one 60 ft. rein.-con. girder bridges, Route 40, Sect. 5-B, Carroll Co. F. T. Sheets, highway engr.

Wis., Racine—Feb. 20, by H. A. Nelson, comr. Pub. Wks., constructing 270 ft. steel girder bridge and concrete approaches, 36 ft. and two 8 ft. sidewalks, etc., at 6th St. $52,000. H. J. Hansen, 1423 Dean Blvd., engr. Noted Oct. 15.

Ia., Denison — Feb. 16, by Bd. Supervs. Crawford Co., 140 x 20 ft. high truss bridge with two 40 x 20 ft. I-beam approach spans, 29,150 lb. reinforcing, 50,300 lb. I-beam and 172,300 lb. truss steel, 2,320 ft. piling, etc. $33,875. W. J. Wearmouth, Denison, engr.

Kan., McPherson — See "Streets and Roads."

Okla., Laverne—Feb. 18, by Clerk Harper Co. (Buffalo), 22 span 338 ft. steel truss bridge, and pile approaches, 7.93 tons truss steel, 4.37 tons I-beam, 1,838 ft. painted, 30,942 ft. untreated and 8,510 ft. creosoted timber, etc., here. $35,000. C. V. Wood, Arnett, engr.

BIDS RECEIVED

N. Y., New York — Park Bd., F. D. Gallatin, pres., Arsenal Bldg., 64th St. and 5th Ave., Feb. 4, concrete arch bridge and approaches, at Boston Rd. and Bronx River, Bronx Park, Bronx Boro, from Fox Reynolds Co., 81 East 125th St., $103,679. Noted Jan. 28.

Ill., Chicago—See "Streets and Roads."

CONTRACTS AWARDED

Miss., Waynesboro — See "Streets and Roads."

Ohio—See "Streets and Roads."

O., Stillwater — Tuscarawas Co. (New Philadelphia), bridge over Baltimore & Ohio R.R. tracks, here, to Dover Tank & Plate Co., Dover, $27,454. Noted Feb. 4.

Michigan — State Hy. Dept., at office comrs. Wayne Co., Detroit, for Bridge File No. 8,201,004 (Grade Separation), 151 ft. long, to M. E. White, 1600 Courtland St., Chicago, Ill., $179,866.

Wis., Milwaukee—Central Bd. Purchases, fabricating steel for repairs to Huron St. Bridge, to Milwaukee Bridge Co., 1400 34th St., $28,320. Noted Jan. 7.

Dams

PROPOSED WORK

Wis., Tomahawk — Wisconsin Valley Impvt. Co., 1st Natl. Bank Bldg., Wausau, made preliminary plans concrete and earth storage reservoir dam, approximately 260 ft. long and 20 ft. head, on Willow River, 21 mi. northwest of here. Private plans.

Texas—Making surveys, etc. large dam across Guadalupe River and several smaller ones below it in San Marcos and San Antonio, etc. from New Braunfels north and south toward San Antonio. $2,000,000. Payne, Weber & Co., c/o M. F. La Croix, Boston ,Mass., financing project. Macomber & West, 15 Exchange Pl., Boston, Mass., engrs.

Wash., Seattle—See "Unclassified."

Railways

PROPOSED WORK

Virginia — Louisville & Nashville R.R. Co., 9th St. and Bway., Louisville, Ky., W. H. Courtenay, ch. engr., plans 13.87 mi. railroad from Chrevolet Station on Martins Fork Branch of Harlan Line to main Cumberalnd Valley Div. at point near Hagans Sta., Lee Co. $5,287,000.

North Carolina—Southern Ry., B. Herman, ch. engr., 1300 Penn. Ave., Wash., D. C., plans grade reduction, new location on Asheville-Spartanburg Div. incl. new line around Saluda Mountain. $4,000,000.

Excavation, Drainage, Irrigation, Levees River and Harbor

PROPOSED WORK

Calif., San Francisco—Park Comn. plans to purchase 4 high pressure centrifugal pumps and motors for use in Golden Gate Park Irrigation System. B. P. Lamb, secy.

Calif., Santa Barbara — Plans election $200,000 bonds, breakwater. $200,000 already available.

BIDS RECEIVED

Calif., San Francisco—State Bd. Harbor Comrs., Ferry Bldg., Jan. 28, 50,000 cu. yd. fill, etc., at outer end of Pier 48, from Healy-Tibbitts Constr. Co., 64 Pine St., $0.64 per cu.yd.

CONTRACTS AWARDED

N. Y., Buffalo—Dept. Pub. Wks., Municipal Bldg., completing Sect. 4 Buffalo River and Cazenovia Creek Impvt., to V. Schiavi, Tupper Lake, $144,100. Noted Jan. 21.

Illinois—Dept. Purchases & Construction, State House, Springfield, Starved Rock Lock and Dam, on Illinois River near Utica to Woods Bros. Constr. Co., Lincoln, Neb., $1,475,832. Noted Jan. 14.

Streets and Roads

PROPOSED WORK

N. Y., Albany — Made plans grading, curbing, sidewalks and asphalt on concrete paving Woodlawn Ave. from Manning Blvd. to Marion Ave. $85,000. J. G. Brennan, city engr.

New Jersey — Bergen Co. (Hackensack) plans paving 7 mi. Franklin Rd. from Oakland to Hawthorne. R. P. McClave, Hackensack, engr.

N. J., Red Bank—Mayor and City Council plan widening Monmouth St. $72,000. Engineer not selected.

N. J., Woodbridge—Middlesex Co. (New Brunswick) plans paving 1 mi. Upper Green St., here. W. E. Buchanan, New Brunswick, engr.

Pa., Bristol—Making plans repaving 8,000 ft. Radcliffe, Otter and Mill Sts. $117,000. J. S. Roberts, 205 Jefferson St., engr. State and Bucks Co. appropriate toward cost. Noted Sept. 10.

Md., Baltimore — Plans sheet asphalt paving Warwick St. from Baltimore St. northward and extending Mosher St. from Smallwood to Ashburton Sts., $250,000; sheet asphalt paving Light St. from Pratt to Lee Sts. $40,000, Saratoga St. from Fremont St. to Greene Sq. $30,000, Smallwood St. from Fayette to Franklin Sts. $40,000, and Fulton Ave., from Baltimore to Presstman Sts. $100,000. B. L. Crozier, City Hall, engr.

North Carolina — State Hy. Dept., Raleigh, plans grading and 6 in. plain concrete paving 10.61 mi. Project 265, $322,700; also 7.2 mi. Project 266, $220,000, both 18 ft., Pamlico Co. C. M. Upham, Raleigh, engr.

N. C., Elizabeth City — Plans improving various streets. $216,422 bonds to be sold.

Ga., Bainbridge—Decatur Co. voted $500,000 bonds, improving various roads. Noted Dec. 31.

Ga., Baxley—Appling Co. plans election $500,000 bonds, improving various roads.

Ga., Hazelhurst—Jeff Davis Co., election Feb. 14, $400,000 bonds, improving various roads. R. H. Ordway, judge.

Ga., Lyons—Toombs Co. voted $300,000 bonds, improving various highways. Noted Dec. 31.

Ga., Milledgeville—Plans election $25,000 bonds, paving various streets. J. H. Ennis, mayor.

Fla., Fernandina — Nassau Co. voted $580,000 bonds, improving roads.

Fla., Gainesville — Alachua Co. election Feb. 12, $1,000,000 bonds, constructing lateral roads. Noted Nov. 19.

Fla., Okeechobee — Voted $87,000 bonds, paving various streets.

Ala., Huntsville — Plans paving 10 streets. To exceed $25,000.

Miss., Laurel — Jones Co. making preliminary plans grading, gravel surfacing, etc., 13 mi. Lone Star Route from Seminary to Starkville, 18 ft. W. T. Hardy, Court House, engr.

Miss., Ripley—Tippah Co. takes bids in spring grading, hardsurfacing, etc., 8 mi. College Trail Rd. from Bailey Springs to Tippah-Union Co. line, 18 ft. $125,000.

Miss., Starkville — Oktibbeha Co. plans election $450,000 bonds, gravel surfacing 43 mi., resurfacing 37 mi., and Kentucky rock asphalt surfacing 5 mi. various roads.

La., Plaquemine—City Council plans election $75,000 bonds, additional cement walks on various streets, and improving drainage system.

La., New Orleans—Comm. Council plans graveling and permanent paving various streets, as listed in last half 1926 program. To exceed $2,000,000.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about Feb. 18, probably concrete paving 6 mi. Gates-Dyer Co. line Rd. and 10 mi. Gates-Ripley Rd., both 18 ft., Lauderdale Co.; and about Mar. 1, grading, etc. 15 mi. and bridge over 20 ft. span, on Crossville-Crab Orchard Rd., Cumberland Co. C. N. Bass, acting comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, take bids about Mar. 12, grading, etc., 5.5 mi. Crossville-Crab Orchard Rd., State Highway 1, Cumberland Co.; and 15 mi. Nashville-Lebanon Rd., Davidson Co. C. N. Bass, acting comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, made surveys improving 10 mi. Bellview-Cheatham Co. line Rd., Davidson Co. C. N. Bass, acting comr.

Tenn., Chattanooga—Hamilton Co. plans concrete paving 3 mi. road up Lookout Mountain. $75,000. E. G. Mussell, Court House, engr.

Tenn., Cookeville—Putnam Co. and State Dept. Hys. & Pub. Wks., Nashville, making surveys improving 15 mi. Cookeville-Monterey Rd.

Tenn., Halls—Voted $40,000 bonds, improving various streets.

Tenn., New River — State Dept. Highways & Pub. Wks., Nashville, takes bids about Mar. 3, 60,000 sq.yd. earth fill approaches to bridge over New River, Scott Co., here. C. N. Bass, acting comr.

Tenn., Rutledge—Grainger Co. plans election $112,000 bonds, improving 28 mi. Rutledge-Hawkins Co. line and Rutledge-Knox Co. line Rds. State appropriates toward cost.

O., Akron — Summit Co. takes bids in spring widening Main St. extension from city limits to Swartz Corners. $40,000.

O., Fairview — Making plans concrete sidewalks, 7 mi. various streets. To exceed $25,000. E. H. Arnold, Town Hall, engr.

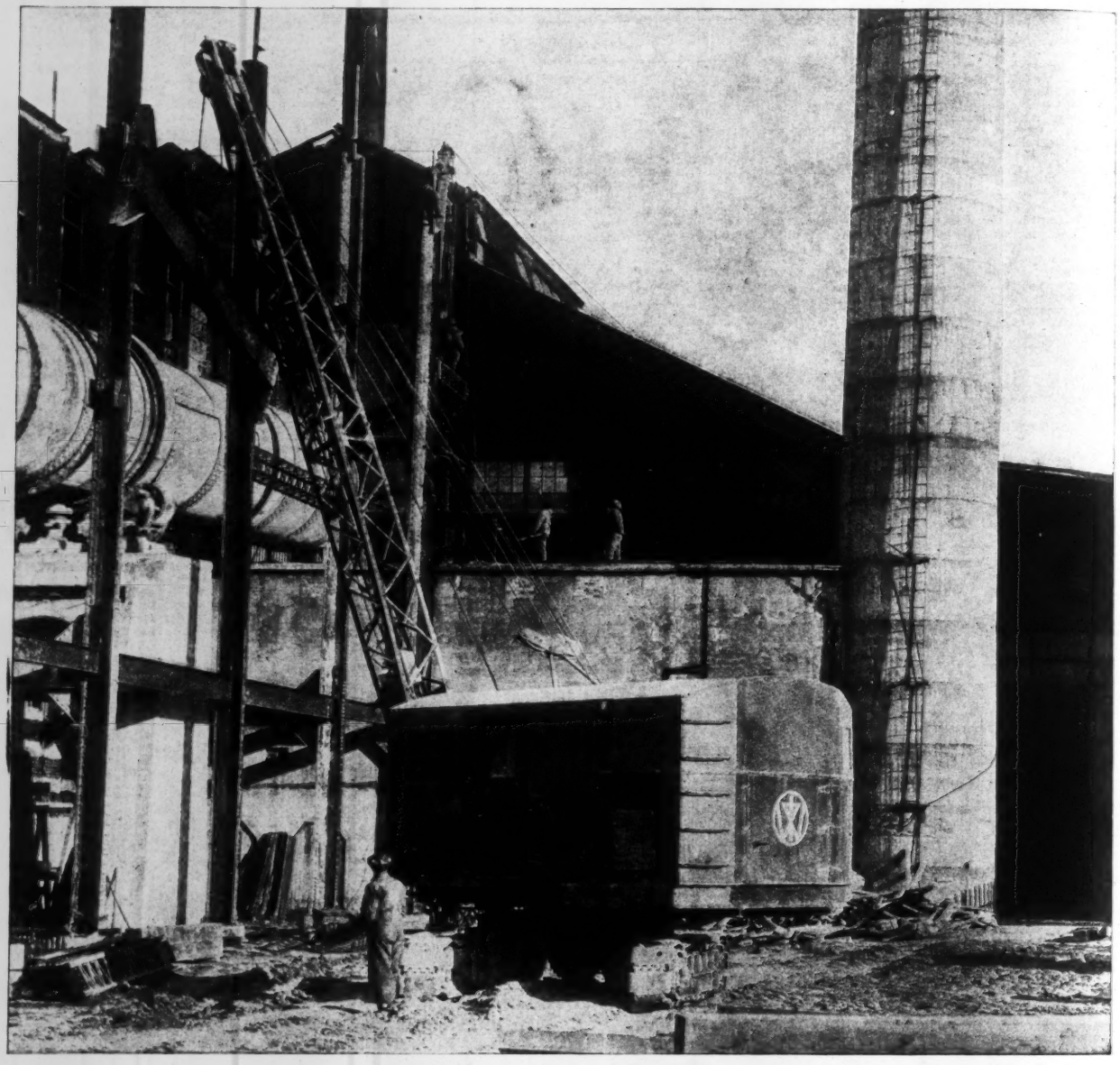
O., Canton — Bd. Control takes bids in spring improving 14th St. N. E. from Harrisburg Rd. to Grace Ave., also Lynch Ave. from 4th to 5th Sts. N. W. $25,000 each. W. E. Sarver, Canton, engr.

O., Jackson—Making plans grading, brick or asphalt paving 2.34 mi. East Broadway, Church, Portsmouth and Longworth Sts., 27 ft. A. E. Campbell, city engr.

O., Rocky River—Cuyahoga Co. (Cleveland) making plans and takes bids in spring paving Beaconsfield Blvd., Morewood Parkway, Elmwood and Aberdeen Rds., Woodside and Beachwood Drs., Riverwood, Purnell, Stratford, Endsley, Laurel and Maplewood Aves. $200,000. E. H. Arnold, Town Hall, engr.

Mich., Detroit—Making plans 3½ in. sheet asphalt on 8 in. concrete paving 900 sq.yd. Rowley Ave., $4,530; 17,750 sq.yd. Tuller Ave., $79,710; 8,400 sq.yd. Mettetal Ave., $37,970; 5,470 sq.yd. Russell Ave., $24,680; 5,300 sq.yd. Waltham Ave., $23,890; 3,250 sq.yd. May Ave., $14,710; 7,950 sq.yd. Greeley Ave., $35,990; 2,050 sq.yd. Swift Ave., $9,220; 3,310 sq.yd. Syracuse Ave., $15,040; 8,370 sq.yd. St. Marys Ave., $37,840; 3,000 sq.yd. Wayburn Ave., $13,680; 2,600 sq.yd. Farr Ave., $12,000; 6,200 sq.yd. Moenart Ave., $28,080; 5,150 sq.yd. Ashland Ave., $23,230; 6,230 sq.yd. Malcolm Ave., $28,150; 8,670 sq.yd. Prairie Ave., $39,130; 8,350 sq.yd. Roselawn Ave., $37,710; 2,035 sq.yd. Bewick Ave., $9,170; 8,360 sq.yd. St. Aubin Ave., $37,940; 2,840 sq.yd. Kentucky Ave., $12,830; 1,065 sq.yd. Whitthorn Ave., $48,400; 1,000 sq.yd. Duncan Ave., $4,500; 1,595 sq.yd. Lawton Ave., $71,810; 7,030 sq.yd. Hammond Ave., $31,680; 6,050 sq.yd. Jackson Ave., $27,280; 8,950 sq.yd. Chalfonte Ave., $40,420, 7,670 sq.yd. Briarcliff Ave., $34,470; 8,500 sq.yd. Lich-

See proposal advertisements on page 130, Advertising Section.



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WHEN you put an INDUSTRIAL crawling tractor crane on the job, it goes to work at once, building up the profits.

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This type DC is a crane, shovel and dragline. Think of buying three machines for but slightly more than the price of any one of other make!

May we send you further details?

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Streets and Roads (Continued)

field Ave., $38,210; 2,800 sq.yd. Larkins Ave., $12,604; 8,500 sq.yd. Renfrew Ave., $38,210; 8,500 sq.yd. Stratford Ave., $38,-210; 2,130 sq.yd. Tuxedo Ave., $9,630; 2,070 sq.yd. Coplin Ave., $9,350; 2,310 sq.yd. Wildemere Ave., $10,440; 4,880 sq.yd. Halbeck Ave., $21,970; 7,700 sq.yd. Welland Ave., $34,700; 5,030 sq.yd. Lawley Ave., $22,660; 3,040 sq.yd. Cedarlawn Ave., $13,-930; 3,000 sq.yd. Sartoga Ave., $13,500; 2,620 sq.yd. Huntington Ave., $11,780; 890 sq.yd. Burnside Ave., $4,470; 2,830 sq.yd. Culver Ave., $12,730; 2,000 sq.yd. Quincy Ave., $9,020; 4,070 sq.yd. Petoskey Ave., $18,300; 4,050 sq.yd. Justine Ave., $18,190; 2,040 sq.yd. Lakeview Ave., $11,198; 2,000 sq.yd. Lenox Ave. $9,160; 4,650 sq.yd. Globe Ave., $20,920; 6,000 sq.yd. Berkshire Ave., $27,090; 4,210 sq.yd. Guthrie Ave., $18,990; 3,860 sq.yd. Renville Ave., $17,390; 3,790 sq.yd. Hildale Ave., $17,040; 3,000 sq.yd. Ilene Ave., $13,540; 8,400 sq.yd. Carbondale Ave., $37,800; 1,900 sq.yd. Garland Ave., $8,640; 7,710 sq.yd. Lumkin Ave., $34,660; and 8,430 sq.yd. Andover Ave., $37,970. P. A. Fellows, City Hall, engr.

Mich., Detroit—Wayne Co. making plans widening and paving 12 mi. Allen Rd., 1.5 mi. Division Rd., 2.5 mi. Mount Clemens Dr., 2.5 mi. Rouge Park Rd., 4.3 mi. South Dearborn Rd., 1.25 mi. Eureka Rd., 4.5 mi. Fort St., 4.5 mi. Canton Center Rd., 6 mi. Five Mile Rd., 4.5 mi. Mack Ave., 4 mi. Miller Rd., 3 mi. River Rd., 5.5 mi. Fort St. in Lincoln Park, 5.5 mi. Seven Mile Rd., and 6.5 mi. Warren Rd.; also grading, etc., 4 mi. Meridan Rd. Private plans.

Mich., Iron River—Plans paving, curbing, guttering various streets on Stambough Hill. $30,000. Engineer not selected. T. Stanaway, village clk.

Ill., Belleville — City Clerk soon takes bids grading, curbing, concrete paving, etc. Washington St. Paving Dist. $40,200. C. A. Heinzelman, City Hall, engr.

Wis., Edgerton—Making plans rein.-con. paving, etc., approximately 18 blocks 8 streets. A. W. Ely, 10 North Bluff St., Janesville, engr.

Wis., Milwaukee — R. Stoelting, comr. Dept. Pub. Wks., making plans various types paving streets in 23 wards. $2,500,-000. J. Schwada, City Hall, engr.

Wis., Oconomowoc—City Clerk takes bids in spring various types paving 10,260 sq. yd. 2nd St. To exceed $25,000. J. A. Stemper, City Hall, engr.

Iowa—State Hy. Dept., Des Moines plans surfacing 22 mi., gravel surfacing 704 mi. and grading, bridging, etc. 521 mi. roads in various counties. $10,000,000. State and various counties appropriate toward cost.

Ia., Albia — Making preliminary plans grading, curbing and hard surfacing 25 blocks various streets. Brown & Cook, Ottumwa, engrs.

Ia., Ottumwa—Soon takes bids grading, curbing, guttering and brick or concrete paving 10,877 yd. Milner St. $43,710, 10,584 yd. Ransom St. $45,110, 7,302 yd. Willard St. $30,912, and 5,390 yd. Hancock St. $22,740. H. E. Cook, City Hall, engr.

Minn., Duluth—City Comrs. making plans and take bids about Mar. 15, concrete paving, etc., 5th Ave. West between railroad tracks and dock line, $36,679, Cottage Ave. with 5 ft. sidewalks on each side, $20,599, 44th Ave. E., $33,438, and 46th Ave. W., $4,043; grading and graveling 65th Ave. W. and Worden St., $12,141; graveling and sidewalks on 2nd St., $8,995. J. Wilson, city engr.

Minn., St. Paul — Making plans paving approximately 2 mi. South Robert St. between Fillmore Ave. and Congress St. $90,-000. G. M. Shepard, city engr.

S. D., Sioux Falls — City Comn. plans paving 30 city blocks various streets. W. Leyse, city aud.

Mo., Clayton—City Clerk takes bids about April 1, improving Hanley Rd., 10,290 cu.yd. grading, 10,625 ft. curbing and guttering, 19,700 sq.yd. asphalt or bituminous macadam paving, etc. $77,000. Keck Surveying Co., 721½ Chestnut St., St. Louis, engrs. Noted Aug. 20.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids asphalt paving, etc., 39,685 sq.yd. Kingshighway $181,000, 1,795 sq.yd. Cook St. $12,000, 3,955 sq.yd. Cook St. between Grand and Vandeventer Sts. $55,200, 8,185 sq.yd. Lee St. $60,300, and 2,900 sq.yd. Shreve St., $18,400; granite block paving, etc., 6,055 sq.yd. Walnut St., $153,100; asphaltic concrete paving, etc., 4,220 sq.yd. Clifton St. $24,400, 1,305 sq.yd. Farlin St. $7,890, 770 sq.yd. Cora St. $6,780, and 3,650 sq.yd. Osceola St., $21,800; concrete paving, etc., 2,680 sq.yd. Cutter St., $14,070; and brick paving, etc., 2,645 sq. yd. Thrush St., $17,610. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, plans constructing or improving 43.24 mi. various streets, $4,280,000, and constructing 8.26 mi. alleys, $214,920. W. W. Horner, 300 City Hall, engr.

Ark., Little Rock — Making preliminary plans grading, curbing and asphalt, brick or concrete paving streets in Impvt. Dist. 431. $58,000. G. D. Douglass, 528 Home Life Bldg., engr.

Ark., Searcy—Voted $219,000 bonds grading and paving 66 blocks various streets, 26 and 60 ft. J. C. Baker, Searcy, engr.

Tex., Angleton — Brazoria Co. making plans grading, bridging and crushed limestone and asphalt on shell paving 8 mi. State Highway 58 and 59, 18 ft. $294,500. H. W. Munson, Jr., Angleton, engr.

Tex., Bay City—Matagorda Co. making plans grading, bridging and concrete paving 16.77 mi. Highway 58, 18 ft. $528,000. E. N. Gustafson, Bay City, engr.

Tex., Baird—Callahan Co. making revised plans grading, bridging, and bituminous macadam on sledged stone surfacing 5.47 mi. Highway 1, Federal Aid Project 52-D. $106,000. T. H. Webb, Baird, engr. Noted Oct. 7.

Tex., Boston—Bowie Co. soon takes bids grading, bridging and gravel surfacing 6 mi. Highway 98 between Boston and Simms, 18 ft. $42,000. F. Hess, Boston, co. engr.

Tex., Crockett — Houston Co. making plans gravel surfacing 18 mi. Highway 103, 18 ft. $35,000. F. J. Von Zuben, Crockett, co. engr.

Tex., Cuero — DeWitt Co. making plans grading, bridging and bituminous macadam paving 7.5 mi. Highway 72 between Yorktown & Karnes Co. line, 18 ft. $180,000. W. H. Koether, Koakum, co. engr.

Tex., Cuero—De Witt Co. making plans grading, bridging and hard surfacing 20½ mi. Highway 72, 18 ft. $600,000. State and Federal Aid appropriate toward cost. W. H. Koether, Cuero, engr.

Tex., Eagle Pass—Maverick Co. making plans gravel surfacing 24 mi. Highway 85 from Eagle Pass to Dimmit Co. line, 18 ft. $150,000. C. E. Wright, Eagle Pass, co. engr.

Tex., Ft. Worth—Making plans widening West 7th St., from Lamar St. to Van Zandt viaduct. $150,000. D. L. Lewis, Ft. Worth, city engr.

Tex., Falfurrias—Brooks Co. making revised plans bituminous macadam on caliche paving 25 mi. Highway 12, Federal Aid Project 2, $500,000; also 2½ mi. Federal Aid Project 429-1, 18 ft., $65,000. R. Harrison, Falfurrias, engr. Noted Oct. 7.

Tex., Goliad—Goliad Co. making plans grading and surfacing 100 mi. main roads. $1,000,000 or more. R. Harrison, Goliad, co. engr.

Tex., Luling—Plans hard paving 7 blocks various streets, 45 ft. $30,000. Address F. Greenwood, mayor.

Tex., Memphis — Making plans vertical fibre brick paving 55 blocks various streets, 30 ft. $210,000. F. Du Bois, Shamrock, engr.

Tex., Morton—Cochran Co. voted $300,-000 bonds improving roads. Address County Judge.

Tex., Raymondville — Willacy Co. making plans grading, concrete or bituminous macadam paving, etc., 18 mi. State Highway north and south through county, 18 ft. $600,000. J. E. Johnson, Raymondville, engr.

Tex., Sanderson — Terrell Co. making plans grading, bridging and gravel surfacing 5.23 mi. Highway 3 extending west from Val Verde Co. line, 18 ft. $68,700. J. Stovell, Sanderson, co. engr.

Tex., Stephenville — Erath Co. making plans grading, bituminous on sledged and crushed stone paving 0.859 mi. State Highway 10, State Aid Project 563, 18 ft. $47,-000. G. W. Courter, Courthouse, Ft. Worth, engr.

Oklahoma — State Hy. Dept., Oklahoma City, **(S. H. means State Highway)**, making surveys grading, etc., 24 mi. Gate-Forgan Rd., S. H. 11, Beaver Co. $35,000, 14 mi. Watoga-Geary Rd., S. H. 8, Blaine Co. $40,000, 11 mi. S. H. 13, Dewey Co. $35,-000, 11 mi. Keno-Buffalo Rd., S. H. 11, Harper Co. $36,000, 9 mi. Gymon Rd., S. H. 11, Texas Co. $30,000, 11 mi. Sharon-Vici Rd., S. H. 15, Woodward Co. $40,000, and 9 mi. Moorland-Belva Rd., S. H. 15, Woodward Co. $40,000; grading and clay surfacing 7 mi. Arnett Bridge Rd., S. H. 13, Ellis Co. $25,000, and 12 mi. Ringwood-Major Co. line Rd., S. H. 14, Major Co. $55,000, all above roads 30 ft. wide; gravel surfacing 6 mi. Alva Rd., S. H. 1, Woods Co., 18 ft., $35,000. J. M. Page, highway engr.

Okla., Wewoka—Plans grading, curbing and vertical fibre brick paving 7,800 sq.yd. Pearl, Plum and Sycamore Sts., $38,200. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Colo., Denver—Plans concrete paving 12 blocks each Alley Paving Dist. 137, $21,-842; Dist. 138, $17,002; Dist. 139, $19,254; Dist. 140, $18,971. A. K. Vickery, City Hall, engr.

Colo., Denver — Plans curbing, grading and surfacing 40 blocks Montclair Impvt. Dist. 3, $119,000; asphalt paving, etc., 12 blocks each East Denver Paving Dists. 20 $44,209, 21 $42,790, 22 $39,714, 23 $51,344, 24 $51,388, 25 $40,761 and 26 $43,361. A. K. Vickery, City Hall, engr.

Calif., Berkeley — Plans paving, etc. portions of Parker and Shattuck Aves. etc., to exceed $25,000; Euclid Ave. between Bay View Pl. and Regal Rd., etc., $140,000; and 7th St. from University Ave. to city limits, $125,000. J. N. Edy, city mgr.

Calif., Fresno—Make plans improving Weldon Ave. between Van Ness and Speedway Tract, 28,422 sq.ft. 4 in. asphalt paving, 42,306 sq.ft. grading, 1,015 lin.ft. concrete curbing, 2,213 sq.ft. concrete guttering, 5,064 sq.ft. walks, etc. A. M. Jensen, city engr.

Calif., Oakland—E. K. Sturgis, city clk., soon takes bids grading, curbing, guttering, paving, etc., Peralta Ave. between 7th St. and Emeryville city limits. To exceed $200,-000. W. W. Harmon, city engr. Noted Jan. 21.

Calif., Pasadena — Plans grading, curbing, resurfacing and 2 in. asphaltic concrete on 7 in. concrete paving, etc., Municipal Impvt. Dist. 7. $450,000 or more. R. Chamberlain, city clk.

Calif., Vallejo—Plans paving highway over reclaimed tideland from Sonoma and Maryland Sts. to 4th St., South Vallejo. To exceed $25,000. T. D. Kilkenny, city engr.

BIDS DESIRED

N. Y., Hamburg—Feb. 23, by Village Bd., concrete paving 2 mi. Buffalo St., 40 ft. $50,000. G. C. Diehl, Ellicott Square Bldg., Buffalo, engr. Noted Jan. 7.

Pennsylvania — Feb. 16, by State Hy. Dept., Harrisburg, furnishing 3,210,000 gal. Specification 1, and 300,000 gal. Class "E" wax oil, and furnishing and applying same on various roads.

Pa., Ebensburg—Mar. 1, by Comrs. Cambria Co., brick or concrete paving 3,300 ft. Menoher Highway, connection Ligonier Pike, 18 ft. $40,000. L. R. Owens, Ebensburg, co. engr.

Pa., Greensburg — Feb. 23, by W. A. Arter, controller Westmoreland Co., reconstructing 10,007 lin.ft. Vandergrift-Chambers School House Rd. in Allegheny and Washington Twps.

W. Va., Milton—Feb. 16, by Common Council, grading, curbing, and bituminous macadam with Bermudez road asphalt binder, or with oil asphalt binder, concrete, or vitr. brick with Portland cement concrete base and asphalt filler paving Harrison St. from Smith St. to Glenwood Ave.; Smith St. from Harrison to Florida Sts.; Florida St. from Smith St. to Washington Ave.; South Main St. from Smith St. to Joe Dillons Property; alley between North Main and Church Sts.; and alley from North Main St. to alley between Lots 23 and 24. R. W. Breece, Holswade Bldg., 317 9th St., Huntington, engr.

Florida — Mar. 2, by State Rd. Dept., Tallahassee, clearing, grading, grubbing, etc. Project 644-A, Wakulla Co.; laying base of Florida lime rock 8 in. compacted on Projects 617 and 618, Alachua Co.; 2 bridges Project 641-B, Palm Beach Co.; 1 bridge project 656, Palm Beach Co.; 2 bridges Project 672-B, Leon Co.; and 2 rein.-con. structures Project 633-B, Gadsden Co. J. L. Cresap, highway engr.; adv. E. N.-R. Feb. 11.

Fla., Key West—Feb. 18, by Bd. Comrs. Monroe Co., Court House, native rock and oil paving and bridging 7.5 mi. Project 7, 7.5 mi. Project 9, and 13 mi. Project 10. J. O. Kirchheiner, chn.

Alabama—Mar. 10, by State Hy. Comn., Montgomery, sand clay surfacing 5.3 mi. Gantt-Andalusia Rd., Covington Co., $76,-000; plain concrete and bituminous surfacing 6.8 mi. Capitol Heights-Judkins Ferry Bridge Rd., $75,100 to $85,000; chert surfacing 4.2 mi. road beginning of Sect. B of Federal Aid Project 6,700 Talladega Co., $67,000; grading and gravel surfacing 9.8 mi. Selma Highway from Kimbrough to Clark Co. line, Wilcox Co., $124,000, all above 18 ft. wide.

Ala., Birmingham — Mar. 1, by City Comn., asphalt paving 1 block 10th Court South, $2,515; and 8 blocks 7th Ave. S., $45,175, both 40 ft. Address City Engineer.

Ala., Selma—Mar. 1, by City Council, concrete paving 8 blocks Dallas Ave., 40 ft. $56,000.

Miss., Quitman—Feb. 24, by Bd. Supervs. Clarke Co., improving 14.72 mi. Meridian-Waynesboro Rd., Federal Aid Projects 78-A and 83-B. $110,000.

See proposal advertisements on page 130, Advertising Section.

Announcing

The Acquisition of the Nichols Patents for Making Centrifugal Concrete Products

This is to announce that the Nichols patents for making centrifugal concrete products have been acquired by the Nichols Centrifugal Products Corporation, with general offices at Detroit, Michigan.

This means that the Nichols Centrifugal Products Corporation is prepared: (1) to make centrifugal concrete products, such as pier and bridge piles, sewer pipe, water pipe, culvert pipe, lighting standards, poles and posts; (2) to furnish engineers manufacturing specifications and proposals for their requirements; and (3) to license manufacturers the right to operate and use our centrifugal machinery.

Inquiries solicited from those who may be interested

Nichols Centrifugal Products Corp.
8100 E. Jefferson Ave.,
Detroit, Mich.

Streets and Roads (Continued)

Tenn., Nashville — See "Contracts Awarded."

Ohio—Feb. 19, by Dept. Highways & Pub. Wks., Columbus, surfacing with (a) concrete (b) bituminous macadam (c) gravel (d) brick, 1.922 mi. Sect. "B" National Rd. (a) $65,059 (b) $60,315, and 2.202 mi. Sect. "E" National Rd. (a) $71,104 (b) $63,415, both 20 ft., Clark Co., 3.82 mi. Sect. "C-2 and C-3" Findlay-Delphos Rd., 16 ft., Hancock Co. (a) $104,663 (b) $103,046, 2.789 mi. Sect. "C" Shelby-Ashland Rd., 18 ft., Richland Co. (a) $103,880 (b) $104,107, 0.97 mi. Sect. "L-1" Mansfield-Millersburg Rd., 18 and 19 ft., Holmes Co. (a) $2,967, 3.35 mi. Sect. "C-2" Vernon-Mt. Gilead Rd., 18 ft., Knox Co. (a) $96,945 (d) $127,387, and 2.95 mi. Sect. "E" Mt. Vernon-Coshocton Rd., 16 ft., Coshocton Co. (c) $43,761; grading, widening, etc., 2.457 mi. Sect. "G" Allensburg-Lynchburg Rd., 17 ft., Highland Co. $15,443; grading, etc., 2.229 mi. Sect. "G" Newark-Coshocton Rd., 29½ ft. Licking Co., $24,106. F. G. Schlesinger, highway engr.

Ohio—Feb. 19, by Dept. Highways & Pub. Wks., Columbus, grading and traffic bound limestone paving 6,693 ft. Sect. "A-3" & "B" McArthur-Logan Rd., Hocking Co., $88,236, 0.097 mi. Sect. "B-2" same road, paving 3.85 mi. Sects. "O" and "P" South Solon Rd. Madison Co., bituminous macadam $109,153, concrete $109,448; paving 3.93 mi. Sect. "A" East Akron-Massillon Rd., Summit Co., brick $218,823, concrete $158,380; bituminous macadam paving 3.377 mi. Sect. "P" Chagrin Falls-Greenville Rd. Trumbull Co., $103,799. F. G. Schlesinger, highway engr.

O., Portsmouth—Feb. 16, by J. R. Lynch, dir. Pub. Serv., grading, curbing and brick or asphalt paving 3,220 ft. Chillicothe St. from 2nd to North Sts., 34 ft. $28,000.

Illinois—Feb. 19, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete, vitr. brick or bituminous concrete with or without binder course paving 6.04 mi. Route 11, Sect. 40 Madison Co., 1.96 mi. Sect. 1, 4.21 mi. Sect. 2, 4.73 mi. Sect. 7 and 7.08 mi. Sect. 8 Route 30, Peoria Co., 4.81 mi. Sect. 14, 4.83 mi. Sect. 15, 3.53 mi. Sect. 16 and 4.86 mi. Sect. 17 Route 36 Pike Co., 7.22 mi. Route 40, Sect. 5 Carroll Co., 6.62 mi. Route 40, Sect. 7 Carroll and Whiteside Counties, 4.66 mi. Route 40, Sect. 8 Whiteside Co., 1.65 mi. Route 4, Sect. D-1, Macoupin Co., all above 18 ft. wide; grading 39,499 cu.yd. Route 40, Sect. 5-A, Carroll Co. F. T. Sheets, highway engr.

Ill., Batavia—Feb. 17, at City Hall, grading, curbing, guttering, and concrete paving 27,000 sq.yd. various streets. Wells Eng. Co., Court House, Geneva, engrs.

Ill., Pittsfield — Feb. 18, by Bd. Local Impvts., City Hall, grading, curbing, guttering and 7 in. rein.-con. paving 27,385 sq. yd. various streets in Central Paving Dist. Caldwell Eng. Co., 36 North Side Sq., Jacksonville, engr.

Ia., Albia — Feb. 18, by Bd. Supervs. Monroe Co., grading, etc. 9.87 mi. Albia Rd., Federal Aid Project 240 A and B, 160,978 cu.yd. excav., 46,000 yd. overhaul, etc. E. R. Seidel, Albia, engr.

Ia., Carroll — Feb. 23, by Bd. Supervs. Carroll Co., improving 7.166 mi. Primary Road south of Carroll and east of Templeton, Federal Aid Project 154 E and D, 142,574 cu.yd. excav., 168,741 yd. overhaul, etc. J. R. Maher, Carroll, engr.

Ia., Corydon — Feb. 16, by Bd. Supervs. Wayne Co., improving 9.336 mi. Primary Rd. from Corydon north, Federal Aid Project 237, 218,808 cu.yd. excav., 435,300 yd. overhaul, etc. D. L. Thomas, Corydon, engr.

Ia., West Liberty — Feb. 16, by City Clerk, grading, curbing and various types paving 35,000 sq.yd. various streets. Brown & Cook, Ottumwa, engrs. Noted Jan. 21.

Kan., McPherson—Feb. 18, by Clerk McPherson Co., grading, etc., 7.817 mi. Project 278A, incl. one 60 ft. steel truss, one 40 ft. concrete deck girder, and two 18 ft. concrete slab spans.

N. D., Dickinson—Mar. 8, by City Comrs., grading and various types paving 83 blocks various streets. E. R. Griffin, Mandan, consult. engr.; adv. E. N.-R. Feb. 11.

Mo., St. Louis—Mar. 2, by Bd. Pub. Serv., 208 City Hall, concrete paving 19,800 sq.yd. Alleys 1245, 2868 E, 2997, 2999, 3000, 3016, 3038, 3607, 4364, 4411 A, 4602 E, 5127, 5128, 5203, 5204, 5205, 5206, 5525, 5531 and 5532, $55,430; concrete paving, etc. 3,790 sq.yd. Missouri St., $20,520; asphalt paving, etc. 25,260 sq.yd. Easton Ave. $152,000 and 8,480 sq.yd. Lynch St. $58,000; asphaltic concrete paving, etc. 3,075 sq.yd. Bernard St. $21,320 and 965 sq.yd. Theodore St. $12,400; Warrenite bitulithic concrete paving, etc 2,860 sq.yd. Wydown St., $11,720; also 790 ft. 10- to 15-in. vitr. clay sewer in Dale Ave. Sewer 6, $3,000. W. W. Horner, 300 City Hall, engr. Noted Dec. 10.

Calif., Brawley — City Trustees taking bids 6 in. concrete paving 128,000 sq.ft. K, 8th Sts., etc. G. R. Wade, city engr.

Calif., Los Angeles—Feb. 23, by Supervs. Los Angeles Co., improving Live Oak Ave. between Baldwin and El Monte Aves., 5,068 cu.yds. excav., 79,980 sq.ft. 9-7-9-in. concrete paving, etc.

Calif., Santa Cruz—S. A. Evans, city clk., taking bids grading, curbing, concrete paving, etc., portions of Berkeley Way, Market and Washburn Sts., etc. To exceed $25,000. J. K. James, city engr. Noted Jan. 21.

Wash., Seattle—Feb. 22, by Comrs. King Co., grading and gravel surfacing 2.5 mi. Des Moines-Kent Highway. $60,000. T. R. Beeman, city engr.

Wash., Seattle—Feb. 23, by Comrs. King Co., concrete paving 1.5 mi. North 85th St. (P. H. No. 6), 16 ft. $50,000. T. R. Beeman, Seattle, engr.

BIDS RECEIVED

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, Feb. 4, from Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., asphalt paving Bermuda St. between Duncan St. and point about 282 ft. south and Edgemont St. between point 427 ft. south of Orthodox and Eddington Sts., $13,975, also Rutland St. between Harrison and Wakeling Sts. $7,051, from Barber Asphalt Co., 239 North 30th St., Bodine St. between Bristol and Cayuga Sts. $6,037, Nedro St. between 21st and Kemble Sts. $9,245, 5th St. between Nedro and Godfrey Sts. $25,581, 20th St. between Andrews and Middleton Sts. $5,765, and asphalt repaving 52nd St. between Baltimore and Warrington Sts. $78,824; from Eastern Asphalt Co., 1504 Pennsylvania Bldg., asphalt paving Conlyn St. between Ogontz and Grange Sts. $8,565, from Union Paving Co., 30th and Locust Sts., Torresdale St. between I and N Sts., $94,583; from Fish-Rutherford, Inc., 4058 Chestnut St., redressed granite block repaving (track areas) of Erie St. between Germantown Rd. and 2nd St. $60,142, Girard St. between 54th and 60th Sts. $29,418, 12th St. between Columbia and Huntingdon Sts. $32,628, 19th St. between Girard and Susquehanna Sts. $32,571, and 29th St. between Lehigh and Allegheny Sts. $28,292; from Acchione & Canuso Paving Co., 804 South 12th St., redressed granite block repaving 4th St. between Market and Race Sts. $14,687, from Municipal Paving Co., 702 Catharine St., 4th St. between Pine and Catharine Sts. $25,671; and from R. B. Wenner, 2313 Walnut St., grading Holme Ave. between Holme Circle (Welsh Rd.) and Willits Rd. $45,032. Noted Jan. 28.

Fla., Miami—City Comrs., Jan. 25, (e. e. means engrs. est.), from Highway Constr. Co., West 112th St. and Madison Ave., Cleveland, O., grading, curbing, guttering, 2 and 3 in. sheet asphalt surfacing PV 69, $249,005 e. e. $247,789, PV 70, $332,698 e. e. $329,518, PV 71, $276,975 e. e. $274,604, PV 72, $395,671 e. e. $389,429, PV 73, $253,967 e. e. $221,194, PV 74, $235,204 e. e. $229,351, PV 75, $256,791 e. e. $246,826. Noted Jan. 7.

Kentucky — State Hy. Dept., Frankfort, Dec. 7, grading, etc., 6.761 mi. Louisa-Inez Rd., State Project 39, Lawrence Co., from Hart & Cooper, Whitesburg, $59,937. Noted Oct. 29.

Ill., Chicago—Bd. Local Impvts., Feb. 1, City Hall, substructure and superstructure of Sect. 9, South Water St. Impvt. from east line State St. to west line Wabash Ave., from Mid-Continent Constr. Co., 6 North Michigan Ave., $547,131. Noted Jan. 28.

Mo., St. Louis — Dept. Pub. Serv., 208 City Hall, Jan. 26, from Webb-Boone Paving Co., 5103 Fyler Ave., asphaltic concrete paving 2,185 sq.yd. Alfred Ave. $12,031, 2,915 sq.yd. Arthur Ave. $17,019, 830 sq.yd. Hi-Points Pl. $5,075, 1,060 sq.yd. Kansas St. $5,944 and 3,115 sq.yd. Marmaduke St. $13,060; from Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., Warrenite paving, etc, 1,635 sq.yd. Michigan Ave. $8,372, 3,010 sq.yd. Cardinal St. $20,308 and 3,490 sq.yd. Pennsylvania St. $18,936; from Granite Bituminous Paving Co., Ry. Exch. Bldg., Warrenite bitulithic paving, etc. 3,060 sq.yd. Nagel St., $21,297; and from Skrainka Constr. Co., Security Bldg., concrete guttering, etc. 1,780 sq.yd. Delmar Blvd., $20,473.

Tex., Gilmer—L. G. Martin, city secy., paving 27,000 sq.yd. various streets from Cocke & Turner, Marshall, 7 in. concrete $53,021; from General Constr. Co., Cotton Exch. Bldg., Ft. Worth, brick on concrete $44,444; from D. B. Talliaferro, Sherman, brick on gravel $58,692. Engrs. est. $60,000. Noted Jan. 14.

Tex., Tulia—J. H. O'Neall, mayor, Jan. 26, 2½ in. brick on 4 in. concrete paving business streets, from Jordon Constr. Co., Plainview, approximately $3.16, total about $40,000.

Calif., Los Angeles—From J. G. Donovan, 741 Lyon St., improving Dixie Canyon Ave., etc., grading approximately $83,950, 24,795 ft. wood guard rail $0.54 per ft., etc., total $100,679; from Griffith Co., Railway Bldg., Pacific Ave. between Hamilton and Paseo Del Mar, grading $3,500, 59,225 sq.ft. asphaltic concrete paving $0.195 per ft., 59,219 sq.ft. walks $0.155, etc., also Walker Ave. between 18th and 25th Sts., grading $14,226, 181,627 sq.ft. 5 in. concrete paving $0.17 per ft., 171,915 sq.ft. asphaltic concrete paving $0.16, etc., total $120,785.

CONTRACTS AWARDED

W. Va., Beckley—Raleigh Co., Bermuda asphalt, tarvia and oil surfacing 15.25 mi. Projects 1, 2, 4 and 6, to A. Keatley Co., Prof. Bldg., Charleston, $316,961; Bermuda asphalt surfacing 4 mi. Project 3, Johnstown-Lanark Rd., to Dougher-Boone Constr. Co., Lewisburg, $88,065; oil asphalt surfacing 2 mi. Project 5, Beckley-Raleigh Rd., to Raleigh Transportation Co., Beckley, $42,469. Grand total $447,495. Noted Jan. 7.

W. Va., Buckhannon—Rein.-con. surfacing Franklin, Pinnell, Hart and Island Sts., to Kennedy Constr. Co., Parkersburg, $27,000; 1st, Sedgwick, Barbour, South Florida and Lincoln Sts., to Phillips & Withers, Buckhannon, $61,000. Noted Feb. 4.

Georgia — State Hy. Dept. East Point, grading, etc., 13.5 mi. Brunswick-Jacksonville Rd., State Aid Project 432-S, Camden Co., to F. M. Jones, 2501 Habersham St., Savannah, $111,164. Noted Jan. 21.

Miss., Jackson—Bd. Supervs. Hinds Co., improving 7.51 mi. Federal Aid Project 82-B, 31,411 cu.yd. excav., 29,043 cu.yd. borrow, 151,497 lb. reinforcing, 6,220 ft. piling, etc., to S. K. Jones Constr. Co., Rand Bldg., Memphis, Tenn., $65,254. Noted Jan. 7.

Miss., Waynesboro—Wayne Co., improving 6.876 mi. Federal Aid Project 83-A, 37,784 cu.yd. excav., 24,116 lb. reinforcing, 14,311 cu.yd. gravel overhaul, timber bridges, etc., to J. A. Perdue & Co., Pine Bluff, $57,675.

La., Shreveport — City Council, national rock asphalt paving Gilbert St. from Olive to Boulevard Sts. and Olive St. from Gilbert to Centenary Blvd., to Shreveport Paving Co., Shreveport, $11,903 and $13,312 respectively.

Tenn., Nashville—Davidson Co. will oil surface various highways, by day labor, under supervision of S. Marshall, supt. highways. To exceed $25,000.

Tenn., Savannah—Concrete paving various streets, to Brown Contg. Co., Chattanooga, approximately $25,000. Noted Dec. 10.

Ohio—Dept. Hys. & Pub. Wks., Columbus, to Homeberger-Wagar Co., Sandusky, grading and brick on concrete paving 2.49 mi. Sect. "B-2" Chagrin Falls-Cuyahoga Falls Rd., 18 and 20 ft. Cuyahgoa Co. $105,500, 0.937 mi. same road 18-20 and 30 ft. $44,900, 2.319 mi. Sect. "A" Twinsburg-Elyria Rd., 18 ft., Summit Co. $70,700, 2.319 mi. Sect. "Macedonia" same road $80,835, and 3.436 mi. Sect. "Northfield" same road, $111,900; to Losey Eng. & Supply Co., Kenton, concrete paving 1.011 mi. Sect. "Ripley" Ripley-Hillsboro Rd., 18 ft., Brown Co. $30,747, 0.229 mi. Sect. "Ripley" same road $9,673, to J. C. Nibble, Hillsboro, 4 mi. Sect. "H" Hamilton-Eaton Rd., 18 ft., Butler Co. $116,049, to Brewer & Brewer Sons, Chillicothe, 3.105 mi. Sect. "K-2" Jackson-McArthur Rd., 16 ft., Jackson Co. $90,027, to Holmes Constr. Co., Wooster, 3.906 mi. Sect. "M" Cleveland-East Liverpool Rd., 18 ft., Mahoning Co. $115,201; to J. S. Wilson, Coalton, bridging, etc., 3.848 mi. Sect. "K" Jackson-McArthur Rd., Jackson Co., 35,232 lb. reinforcing, 322 ft. vitr. pipe, etc., $20,855. Grand total $796,387. Noted Jan. 14.

Ill., Elmwood — Concrete paving 5,635 sq.yd. and brick on concrete paving 2,037 sq.yd. Main St., to H. A. Reschke Co., Geneseo, $25,757. Noted Jan. 21.

Ill., Macomb—Vibrolithic concrete paving, etc. 8,900 sq.yd. East and West Pierce St. and North Charles St., to H. C. Holmes, Macomb, $32,566.

Mo., Neosho—City Clerk, curbing, guttering and concrete paving 13,786 sq.yd. various streets, to Prince & Minton, Parsons, Kan. Noted Jan. 14.

Ark., Batesville—Southern Surety Co., A. O. U. W. Bldg., Little Rock, sheet asphalt surfacing unfinished portion of original 76,000 sq.yd. various streets in Paving Dist. 4, to Kaw Paving Co., Pine Bluff, Ark., and 616 N. E. Bldg., Topeka, Kan. Noted June 18.

See proposal advertisements on page 130, Advertising Section.

Streets and Roads (Continued)

Tex., Angleton — Brazoria Co., 1½ in. bituminous on crushed stone paving 6.59 mi. State Highway 19, Federal Aid Project 367-A, also 10.88 mi. same road, Federal Aid Project 367-B, both 16 ft., to Haden & Austin, Santa Fe and Runnels Bldg., Houston, $55,436 and $92,885 respectively. Engrs. est. $65,000 and $120,000 respectively. Noted Nov. 19 and Dec. 3.

Tex., Gatesville — Coryell Co., uvalde rock asphalt paving various streets, to W. E. Dozier, 348 Austin Natl. Bank Bldg., Austin, $64,485. Engrs. est. $68,000.

Ariz., Globe — To Phoenix-Tempe Stone Co., Phoenix, improving various streets, 2,235 cu.yd. roadway excav. at $1 per cu. yd., and 10,560 sq.yd. 6 in. concrete paving $2.45, etc., total $31,083.

Calif., Los Angeles—City Harbor Comn., to Pan-Pacific Constr. Co., Citizens Natl. Bank Bldg., improving vicinity of Berths 228, 230, etc., 6 in. rein.-con. floor slab $16,575, 2 in. Warrenite bituminous on 5 in. asphaltic concrete surfacing $16,867, and 2 in. Warrenite bituminous paving on wharf $15,362.

Calif., Los Angeles — Grading, curbing and concrete paving, etc., Reseda Ave. between Valerio and Van Owen Sts., to B. R. Ford, 407 West 17th St., $42,512; grading and concrete paving 136,225 sq.ft. Temple St. between Park View and Robinson Sts., to W. Liddington, 420 East 60th St., $45,-125; 6 and 7 in. concrete paving, etc., Prospect Ave. between Vermont and Talmadge Aves., to C. W. Sparks, 142 North Commonwealth Ave., $28,520. Grand total $116,157. Noted Jan. 28 and Feb. 4.

Calif., Los Angeles — Los Angeles Co., curbing, grading, guttering and concrete paving Palm Ave. between Wallin and Normandie Aves., to H. E. Cox, Slavin Bldg., Pasadena, $30,872. Noted Jan. 21.

Calif., San Diego—A. H. Wright, city clk., grading, curbing and concrete paving Diamond St., to H. H. Peterson, Spreckels Bldg., $53,455; also Front, Upas and Thorn Sts., to Griffith Co., 25 14th St., $28,767. Noted Jan. 14.

Calif., South Pasadena — Improving Arroyo Blvd. between Arm and Columbia Sts., 83,000 sq.ft. concrete paving, 4,200 ft. curbing, etc., to W. J. Curren, 221 West Bway., Glendale, $25,416.

Buildings—Industrial

PROPOSED WORK

Mass., New Bedford—MILL—New Bedford Cotton Mills Corp., Coffin Ave. and Church St., having plans prepared by Leary & Walker, Times Bldg., 1 story, 75 x 4[illegible] ft., rein.-con. and brick addition. $100,000.

Conn., New Britain—FACTORY and OFFICE—Amer. Hardware Corp., 10 Franklin Sq., had plans prepared 2 story (ultimately 4 story), 60 x 360 ft., concrete, Washington St. $125,000.

N. Y., Buffalo — ICE PLANT — Federal Ice & Coal Co., 761 Kensington Ave., plans ice manufacturing plant. $50,000.

N. Y., Mount Morris—MILL—Gailbraith Milling Co., plans reconstructing flour and feed mill, recently destroyed by fire. $60,000.

Pa., Altoona—PACKING PLANT—Shaffer Stores Co., 717 Green Ave., having plans

SUBWAY—NEW YORK, N. Y.

Bids were opened by Board of Transportation, 49 Lafayette St., Dec. 31, for Sect. No. 2, Route No. 102, along and under 8th Ave., from West 18th to 28th Sts., (A) G. H. Flinn, 17 Battery Pl., (awarded contract); (B) D. C. Serber, Grand Central Terminal; (C) The Carleton Co., Inc., 151 West 42nd St.; (D) S. B. Mason, 17 West 60th St.; (E) Underpinning & Foundation Co., 342 Madison Ave.; Patrick McGovern, 50 East 42nd St., $5,482,403; Heyman & Goodman Co., 236 West 116th St., $6,199,815. The unit bids of the lowest four and highest bidders are as follows:

	A	B	C	D	E
135,000 cu.yd. earth excavation	$12.15	$12.00	$13.00	$13.00	$17.00
75,000 cu.yd. rock excavation	17.00	16.00	16.00	15.00	17.00
23,000 cu.yd. concrete masonry	24.00	23.00	23.00	24.00	28.00
85,000 sq.ft. rubbing of concrete	.12	.11	.10	.15	.20
5,000 cu.yd. protective concrete masonry	24.00	28.00	23.00	24.00	28.00
1,400 cu.yd. rubble stone masonry	14.00	13.80	16.00	15.00	20.00
20 cu.yd. rubble stone masonry, dry	14.00	13.80	25.00	12.00	16.00
200 cu.yd. brick masonry	35.00	40.00	45.00	50.00	60.00
25 sq.yd. vitrified brick lining for sewers	5.00	8.40	10.00	7.00	8.00
25 cu.yd. hollow terra cotta brick or tile masonry	45.00	40.00	40.00	50.00	60.00
100 bbl. grout of Portland cement	7.00	6.00	6.00	10.00	6.00
200 sq.yd. plastering on hollow tile at D. M.	2.00	2.00	2.50	2.00	3.00
25 cu.yd. broken stone or gravel	5.00	6.00	7.00	8.00	6.00
10,500 sq.yd. waterproofing, 1 ply	1.25	.90	1.00	1.50	.90
19,000 sq.yd. 3 ply	3.00	2.90	2.50	3.00	2.70
200 sq.yd. 4 ply	4.00	3.85	4.00	4.00	3.60
5,400 sq.yd. 5 ply	5.00	4.55	4.50	5.00	4.50
1,200 sq.yd. 6 ply	6.00	5.30	5.50	6.00	5.40
100 sq.yd. dry ply	1.00	.60	1.00	1.00	.90
600 cu.yd. one layer brick in mastic	55.00	50.00	50.00	55.00	50.00
600 cu.yd. two layers brick in mastic	55.00	45.00	50.00	55.00	50.00
1,500 lin.ft. 3-in. cast iron pipe and fittings	1.20	1.25	1.50	2.00	1.50
500 lin.ft. 4-in.	1.60	1.50	2.00	3.00	2.00
600 lin.ft. 6-in.	2.25	2.10	2.50	3.50	3.00
2,900 lin.ft. 8-in.	3.50	3.60	3.50	4.50	4.00
50 lin.ft. 10-in.	6.00	4.70	6.00	6.00	5.00
100 lin.ft. 3-in. standard galvanized steel pipe	1.25	1.20	2.00	2.00	1.50
300 lin.ft. 4-in.	1.50	1.60	2.50	3.00	2.00
100 lin.ft. 6-in.	2.25	2.50	3.50	4.00	3.00
180 lin.ft. 8-in.	4.00	3.30	4.50	5.00	4.00
50 lin.ft. 10-in.	6.00	4.70	7.00	7.00	5.00
100 lin.ft. 1½-in.	.75	.65	2.00	2.00	1.00
50 lin.ft. 2½-in.	1.00	1.00	2.00	2.00	1.25
163,000 duct.ft. tunnel ducts	.30	.30	.30	.40	.37
360 con.ft. 3-in. fiber conduits	.30	.60	.50	.50	.50
2,850 ton riveted steel painted and erected standard shapes	140.00	120.00	120.00	125.00	123.00
2,600 ton riveted steel painted and erected Beth.	150.00	140.00	130.00	.....	.....
3 ton arch. steel and iron stairs, ladders, pipe railings, etc.	400.00	600.00	500.00	400.00	500.00
500 sq.ft. sliding doors with steel panels	6.00	5.00	6.00	7.00	8.00
2 exit covers	500.00	385.00	500.00	750.00	600.00
130 ton steel rods and bars built in concrete	150.00	110.00	120.00	120.00	120.00
30 ton miscellaneous iron castings	200.00	235.00	250.00	250.00	360.00
1,400 lb. special wire forms	.20	.20	.25	.30	.40
4,200 lin.ft. 1¼-in. oak or ash handrail	.80	.72	.60	.60	.60
5,750 sq.ft. steel grating for ventilation	4.50	3.50	4.50	4.00	4.50
5,300 sq.yd. sidewalk restoration	3.50	2.55	3.50	3.00	3.60
900 sq.yd. street repavement asphalt	6.00	5.00	5.00	6.00	4.50
200 sq.yd. granite black pavement	5.50	5.00	5.00	5.00	3.00
1,700 sq.yd. Belgian block pavement	5.50	5.00	5.00	5.00	3.00
15,300 sq.yd. wooden block pavement	5.50	6.25	6.00	5.00	5.00
500 sq.yd. upper 3-in. of concrete walls	3.75	2.20	3.00	3.00	6.00
18,100 sq.yd. temporary pavement of granite block	3.00	3.00	3.00	3.00	1.75
7,500 lin.ft. ¾-in. electric conduits in place	.40	.36	.40	.40	.25
50 lin.ft. 1½-in.	1.00	.78	.80	.80	.50
200 lin.ft. 2-in.	1.25	.93	1.00	1.00	.80
5,800 lin.ft. 1-in.	1.00	.45	.50	.50	.40
100 lin.ft. 3½-in.	3.00	2.30	2.00	2.00	1.20
10 lin.ft. 2½-in.	2.00	1.30	2.00	1.75	1.00
780 cast iron outlet boxes 4 x 4 x 3 in.	2.50	2.00	2.00	2.00	2.00

See proposal advertisements on page 130, Advertising Section.

	A	B	C	D	E
10 cast iron pull boxes 6 x 6 x 4 in	$6 00	$5 50	$7 00	$10 00	$6 00
1 cast iron pull box Tel 6 x 12 x 3 in	20 00	11 00	15 00	15 00	12 00
320 lin.ft. cast iron pipe and fittings 6-in	4 00	2 00	3 00	4 00	3 00
360 lin.ft. cast iron pipe and fittings 3-in	2 00	1 45	2 00	2 50	2 00
10 lin.ft. cast iron pipe and fittings 4-in	3 00	1 80	2 50	3 00	2 50
300 lin.ft. cast iron pipe and fittings 8-in	5 00	2 80	4 50	6 00	4 00
500 lin.ft. 12-in. vitrified sewer pipe	5 00	5 35	8 00	8 00	10 00
1,500 lin.ft. 15-in	6 00	7 20	10 00	10 00	11 00
100 lin.ft. 18-in	6 50	8 00	12 00	12 00	15 00
700 lin.ft. 24-in	14 00	10 00	12 00	15 00	18 00
100 ton cast iron sewer pipe, straight	135 00	102 00	120 00	125 00	200 00
75 ton cast iron sewer pipe, special	275 00	216 00	200 00	200 00	350 00
1,100 lin.ft. concrete sewers 3 ft. 6 in. x 2 ft. 4 in	20 00	20 00	25 00	22 00	30 00
250 lin.ft. 4 ft. x 2 ft. 6 in	20 00	21 40	27 00	25 00	32 00
225 lin.ft. 5 ft. x 4 ft. 6 in	25 00	33 00	45 00	40 00	37 00
200 lin.ft. 4 ft. 9 in. x 3 ft.	20 00	25 00	50 00	30 00	35 00
200 lin.ft. 5 ft. 3 in. x 3 ft. 4 in	25 00	27 60	45 00	40 00	40 00
260 lin.ft. 5 ft. 3 in. x 4 ft. 9 in	30 00	32 70	50 00	50 00	42 00
210 lin.ft. 5 ft. 6 in. x 4 ft. 10 in	30 00	35 00	55 00	60 00	50 00
80 lin.ft. 7 ft. 6 in. x 5 ft. 9 in	30 00	50 00	70 00	75 00	80 00
5,710 lin.ft. electric railways (under grd. trolley)	20 00	20 00	15 00	15 00	10 00
600 lin.ft. water pipe 6-in	1 50	2 20	3 00	3 00	5 00
700 lin.ft. water pipe 12-in	3 00	4 10	5 00	4 50	10 00
100 lin.ft. water pipe 20 in	6 00	7 20	10 00	7 50	15 00
10 service connections for water pipe	60 00	50 00	50 00	50 00	100 00
100 lin.ft. gas pipe 4-in	1 50	1 75	2 00	2 00	3 00
100 lin.ft. 6-in	2 00	2 50	3 00	2 50	5 00
250 lin.ft. 8-in	2 50	2 90	3 00	3 00	7 00
100 lin.ft. 10-in	3 00	3 60	3 25	4 00	8 00
100 lin.ft. 12-in	3 50	4 10	4 00	5 00	10 00
100 lin.ft. 16-in	5 00	5 00	5 00	6 00	15 00
300 lin.ft. steel by-pass pipe 6-in. on street	4 00	6 20	6 00	12 00	30 00
100 lin.ft. 8-in on street	4 00	8 60	7 00	16 00	30 00
100 lin.ft. 10-in. on street	5 50	10 00	10 00	21 00	40 00
3,600 lin.ft. 12-in. on street	5 50	13 50	14 00	24 00	24 00
100 lin.ft. 16-in. on street	6 00	23 20	18 00	28 00	60 00
150 lin.ft. 20-in. on street	9 00	25 00	20 00	35 00	80 00
3,600 lin.ft. 24-in. on street	13 00	26 50	30 00	40 00	50 00
100 lin.ft. 4-in. on street	4 00	5 80	5 00	10 00	20 00
100 lin.ft. 30-in. on street	20 00	36 00	30 00	60 00	100 00
250 lin.ft. above street 12-in	10 00	11 00	15 00	25 00	40 00
200 lin.ft. above street 16-in	15 00	14 30	20 00	30 00	50 00
200 lin.ft. above street 30-in	30 00	37 00	30 00	60 00	100 00
1,100 lin.ft. cable susp. for pipes over 16-in	20 00	10 30	10 00	20 00	10 00
150 lin.ft. cable susp. for pipes under 16-in	20 00	10 30	10 00	20 00	10.00
5 service connections for gas pipe	15 00	100 00	50 00	50 00	100 00
10 ton new c. i. hub and spigot straight pipe	100 00	110 00	120 00	120 00	80 00
5 ton new c. i. hub and spigot special castings	230 00	220 00	200 00	250 00	200 00
100 lin.ft. high pressure water pipe, 8-in	5 00	5 00	6 00	10 00	4 00
400 lin.ft. 12-in	8 00	7 30	8 00	12 00	6 00
100 lin.ft. 16-in	13 00	9 75	10 00	14 00	8 00
1,000 lin.ft. 20-in	18 00	13 40	15 00	16 00	10 00
300 lin.ft. 24-in	23 00	18 30	20 00	24 00	12 00
100 ton new c. i. spigot and grooved straight pipe	130 00	135 00	140 00	250 00	80 00
35 ton new c. i. spigot and grooved, special castings	250 00	310 00	240 00	500 00	200 00
100,000 duct.ft. electric ducts and conduits (clag)	.40	.50	.40	.50	.30
30,000 lin.ft. electric ducts and conduits (steel 3-in)	.80	1 45	.45	.60	.70
10,000 lin.ft. electric ducts and conduits (steel 3½-in.)	1 00	2 00	.55	.70	.90
10 electric ducts and conduits, service conn	100 00	60 00	75 00	150 00	200 00
100 lin.ft. electric ducts and conduits (fiber 3-in.)	.45	.50	2 00	.60	.80
100 lin.ft. electric ducts and conduits (fiber 3½-in.)	.60	.60	2 00	.65	1 00
1 service box on relocated duct lines	200 00	200 00	200 00	250 00	400 00
1 junc. box on relocated duct lines	400 00	400 00	300 00	400 00	500 00
Extended totals including item 19A	$5,035,608	$5,121,001	$5,265,545	$5,382,353	$6,199,815
Extended totals including item 19B	$5,026,608	$5,143,001	$5,261,545	.....	.....

* Totals include underpinning of buildings but units do not.

Buildings—Industrial (Continued)

prepared 3 story and basement, 80 x 113 ft., brick, rein.-con. and steel, 9th Ave. $200,000. Private plans.

Pa., Dunbar — GLASS PLANT — Pennsylvania Wire Glass Co., 15th and Chestnut Sts., Phila., having plans prepared 1 story, 60 x 144 ft., and 70 x 144 ft., brick and steel, here. Private plans.

Pa., Lebanon—MILL—Lebanon Hosiery Mill, c/o W. J. Steele & Son Co., engrs., 219 North Broad St., Phila., having plans prepared mill, here.

Pa., Pittsburgh — PLANT — Locomotive Stoker Co., 30 Genl. Robinson St., N. S., having plans prepared 1 story, 30 x 180 ft., brick and steel addition, Robinson St. Hunting, Davis & Dunnello, 1150 Century Bldg., engrs.

Ga., Newman—COTTON MILL—Newman Bank & Trust Co. and A. W. Arnall, Newman, plan cotton mill. $1,000,000.

Fla., Tampa — CHEMICAL PLANT — Tampa Thermaline Gas Corp. (being organized), c/o L. Wolf, chemical engr., Tampa, plans chemical plant, along tracks Seaboard Air Line Ry. $250,000.

Tenn., Columbia — SHIRT FACTORY — Columbia Development Co. plans shirt factory. $50,000. Engineer and architect not selected.

Ky., Hopkinsville—PLANT—Forbes Mfg. Co. plans rebuilding plant, recently destroyed by fire. Loss $500,000.

O., Akron—DAIRY PLANT—Akron Pure Milk Co., E. B. Alexander, genl. mgr., having preliminary plans prepared by M. P. Lauer, 206 Pythian Temple Bldg., 4 story dairy plant, brick, steel and rein.-con. $200,000.

O., Cleveland — FACTORY — Cleveland Tent Co., G. McAuley, pres., 1388 West 70th St., had plans prepared 2 and 4 story and basement, 40 x 75 ft., brick and steel, West 29th St. and Washington Ave. $50,000. Private plans.

Ind., Indianapolis—FACTORY—Standard Nut Margarine Co., G. Sonnich, pres., 1102-16 Roosevelt Ave., having plans prepared by R. N. Edwards, 71st St. near Pennsylvania Ave., 3 story, 50 x 60 ft., brick, steel and rein.-con., Roosevelt and Lewis Sts. $50,000.

Ind., Paragon—FACTORY—Glaser-Crandall Co. having plans prepared by McMeans & Tripp, 510 Majestic St., Indianapolis, packing plant. $40,000.

Ind., South Bend—FOUNDRY, etc.—G. Cutter Co., Division and Notre Dame Sts., having preliminary plans prepared by B. H. Prack, 119 Federal St., Pittsburgh, Pa., group buildings, incl. foundry, machine shop, assembly building, etc., South Notre Dame Ave. $1,000,000.

Wis., Milwaukee — DRY HOUSE — Red Star Yeast & Products Co., 79 Buffalo St., having plans prepared by E. R. Leibert, 49 Oneida St., 3 story, 52 x 100 ft., brick and timber, plain foundation, 27th St. $75,000. Noted Nov. 26.

Wis., West De Pere—COOLING PLANT—Bowman Dairy Co., 140 West Ontario St., Chicago, Ill., plans 2 story, rein.-con. and brick, plain foundation, here. $40,000. Engineer and architect not selected.

See proposal advertisements on page 130, Advertising Section.

Buildings—Industrial (Continued)

Missouri — BRICK PLANT — Missouri Fire Brick Co., c/o J. F. Wash, pres., 6100 Manchester Ave., St. Louis, purchased tract of land between Farber and Vandalia and plans fire brick plant on same.

Mo., St. Louis — PACKING PLANT — Gerst Bros. Meat Co., 3832 Lucky St., takes bids probably in April, 2 story and basement, rein.-con. and brick addition. To exceed $40,000. National Packers Supply Co., 405 Franklin Ave., archts. and engrs.

Tex., El Campo—COTTON COMPRESS, etc.—A. J. Wendell, Jackson St., having plans prepared 24 x 94 ft. cotton compress and cotton gin. $60,000. Private plans.

Tex., San Marcos—TEXTILE MILL—Morris & Co., Inc., Groveville, N. J., having preliminary surveys made textile mill. $200,000. Private plans.

Tex., Texarkana — MACHINE SHOP — Southern Ice & Utilities Co. having plans prepared rebuilding 75 x 140 ft. machine shop and supply plant, recently destroyed by fire. $40,000. Address J. E. Ritchie, genl. mgr.

Tex., Wichita Falls — ICE CREAM PLANT—Colvert Ice Cream Co. (P. and W. L. Colvert, owners), having preliminary sketches made ice cream plant. $150,000. Private plans.

Okla., Cardin—ORE PLANT—A. Beaver Mining Co. had plans prepared 1 story, 160 x 270 ft., rein.-con. and steel, plain foundation. $160,000. G. Stein, Miami, engr. Architect not announced.

Wash., Seattle — POWER PLANT — See "Unclassified."

Calif., Los Angeles — SUB-STATION — Los Angeles Gas & Electric Corp., 810 South Flower St., having plans prepared 2 story, 47 x 100 ft., Class "B" construction, Western Ave. $45,000. Private plans.

Calif., Oakland—SUB-STATION—Great Western Power Co., 530 Bush St., San Francisco, having plans prepared rein.-con. addition, 4th Ave., here. $150,000. Eng. Dept. of Owners, engrs.

Calif., Redwood City — FACTORY — Plant Rubber & Asbestos Co., 537 Brannan St., San Francisco, plans rebuilding factory destroyed by fire. $200,000. Engineer and architect not selected.

Calif., Stockton—FEED MILL—Poultry Producers Assn. of Central California, Inc., 700 Front St., San Francisco, plans feed mill. $200,000.

Que., Quebec—PULP and PAPER MILL —Gulf Pulp & Paper Co., 71 St. Peter St., having plans prepared for pulp and paper mill. G. Hardy, 309 Bway., New York City, engr.

Que., Shawinigan Falls — CARBORANDUM PLANT — Canadian Carborandum Co., plans extending plant. $500,000. R. A. Whiterspoon, Shawinigan Falls, engr.

BIDS DESIRED

Conn., Torrington — FACTORY — See "Contracts Awarded."

N. J., Camden—FACTORY—Feb. 13, by L. B. Rothschild, archt., 215 South Broad St., Phila., 4 story and basement, 100 x 160 ft., rein.-con. and brick, plain foundation, 9th and Liberty Sts., for Congress Cigar Co., 3rd and Spruce Sts., Phila. $300,000. Noted Dec. 31.

Wis., Milwaukee—ICE PLANT—Meyer Ice Co., 885 30th St., taking bids 1 story, 50 x 143 ft., brick and timber, plain foundation 30th St. $40,000. Private plans.

Tex., Galveston—FACTORY—See "Contracts Awarded."

Calif., Los Angeles—FACTORY—H. E. Bean, archt., Central Bldg., taking bids 2 story, 125 x 156 ft. main building, and 30 x 40 ft. accessory building, Macy St. and Mission Rd., for Advance Auto Body Wks., 515 Mission Rd. $125,000. Noted Jan. 21.

CONTRACTS AWARDED

Conn., Torrington — FACTORY — Progressive Mfg. Co., 52 Norwood St., will build 2 story, 55 x 141 ft., brick addition, by day labor. $40,000. W. E. Hunt, 182 Church St., archt. Noted Jan. 21.

N. Y., Glendale (mail Brooklyn)—BOX and PAPER MILL — Pequot Mfg. Co., Thompson Ave., Long Island City, (1st unit), 1 story, 100 x 320 ft., rein.-con. and brick, plain foundation, Schmidt Farm, here, to Austin Co., 217 Bway., New York City. Archts. total est. $2,000,000. Noted Feb. 4.

N. Y., New York—FACTORY—Stewart-Warner Speedometer Corp., 1826 Diversey Blvd., Chicago, Ill., 4 story, 90 x 100 ft., rein.-con., brick and steel top addition, 37 West 65th St., to Smith & Leo, 103 Park Ave. Archts. est. $125,000.

O., Cincinnati — MACHINE SHOP — Dreses Machine Tool Co., 227 West McMicken Ave., 1 story, 90 x 300 ft., brick and steel, plain foundation, Spring Grove Ave., to Austin Co., 16112 Euclid Ave., Cleveland, $100,000.

O., Cleveland—FACTORY—Acme Artificial Silk Co., C. P. Green, genl. mgr., 1294 West 70th St., 1 story and basement, 31 x 110 ft., brick and steel, concrete pile foundation, to W. J. Pierik, 7016 Euclid Ave. Archts. est. $40,000. Noted Dec. 31.

O., Cleveland—FACTORY—Cleveland Automobile Co., J. J. Krall, secy.-treas., London Rd., 4 story and basement, brick and rein.-con. addition, concrete foundation, to W. Dunbar Co., 8201 Cedar Ave. Archts. est. $200,000. Noted Jan. 21.

O., Cleveland — FACTORY — Ferbert-Schorndorfer Co., Berea Rd., 2 story, 50 x 130 ft., brick and steel addition, to Austin Co., 16112 Euclid Ave. Archts. est. $100,000.

O., Cleveland — FACTORY — U. S. Air Compressor Co., R. L. Bacher, pres., 5300 Howard Ave., 1 story, 80 x 90 ft. factory addition, to S. W. Emerson Co., Union Bldg. Archts. est. about $40,000.

Mich., Detroit — WHEEL PLANT — A. Kahn, archt., 1000 Marquette Bldg., 1 story, 61 x 414 ft. and 122 x 412 ft. rein.-con., brick and steel addition, Charlevoix Ave., to Wark Co., 12141 Charlevoix Ave., for Budd Wheel Corp. Noted Dec. 3.

Ind., Indianapolis — FACTORY — Lilly Varnish Co., C. M. Malott, pres., 670 South California St., general contract 3 story, brick, steel and rein.-con., 670 South California St., to Mothershead & Fitton, 540 North Meridian St., $45,000.

Wis., Kohler—ENAMEL SHOP—Kohler Co., 1 story, 72 x 228 ft., brick, steel and concrete, plain foundation, to F. Radloff Co., Plymouth.

Wis., Milwaukee — FACTORY — Schmidt Bedding Co., 966 30th St., 2 story and part basement, 34 x 122 ft., brick and timber, plain foundation, Burleigh and 30th Sts., to Byrne Bros., 3112 Burleigh St. Archts. est. $45,000.

Mo., St. Louis — ICE PLANT — H. G. Clymer, archt., Wainwright Bldg., 2 story and basement, rein.-con. and brick, Shaw St. and Missouri Pacific R.R., to McKelvey Constr. Co., Title Guaranty Bldg., for Polar Wave Ice & Fuel Co., 3638 Olive St. Archts. est. $400,000. Noted Oct. 29.

Tex., Galveston—FACTORY—Galveston Ice Cream Co., c/o L. McKelsey, 2308 K St., will build 2 story ice cream factory, brick and concrete, by day labor. $40,000. Private plans.

Tex., Marshall — ICE PLANT — Texas Pub. Serv. Co., c/o K. Lee, mgr., 1 story, 80 x 80 ft., brick, steel and rein.-con., to J. M. Pressler, Marshall, $100,000 cost plus 10%.

Wash., Seattle—PLANT—Pacific Coast Forge Co., Inc., 3800 Iowa St., 1 story, 52 x 185 ft., 62 x 120 ft., 35 x 75 ft., and 35 x 62 ft., steel additions, to Austin Co., 16112 Euclid Ave., Cleveland, O., approximately $100,000.

Buildings—Commercial

PROPOSED WORK

Mass., Attleboro — THEATRE — Eagle Bldg. Assn., c/o J. A. Tuck, archt., Park Sq. Bldg., Boston, having revised plans prepared 4 story and basement, 112 x 240 ft., brick and steel, Bank St. $350,000. Noted Dec. 31.

Conn., Guilford — THEATRE — United Theatres, Inc., c/o J. Weinstein, archt., Metropolitan Bldg., Chapel St., New Haven, having plans prepared brick and steel, Water St., here. $150,000.

Conn., Hartford—GARAGE—J. P. Nielsen & Son Co., 86 Maple St., having plans prepared 2 story, 96 x 300 ft., concrete, brick and steel, Washington St. $150,000. Private plans.

Conn., New Haven—LODGE—Masonic Temple Assn., W. A. Warner, chn. building com., plans 2 story and 2 mezzanines, lodge, Whitney Ave. Norton & Townsend, 405 Temple St., archts.

Conn., New Haven — OFFICE, etc. — Yale College having sketches made by Delano & Aldrich, 126 East 38th St., New York City, office, class rooms, etc., on campus. $900,000.

N. Y., Buffalo—OFFICE—State Building Comn., Albany, plans office building for state departments, here. $300,000.

N. Y., Long Beach—HOTEL—Wilkinson & Hyde, engrs. and archts., 19 West 44th St., New York City, preparing plans 5 story, brick, steel and stone, plain foundation. $200,000. Owner's name withheld.

N. Y., New York—HOTEL—J. Costello, c/o G. Keister, engr. and archt., 56 West 45th St., having plans prepared 15 story, brick, steel and stone, plain foundation, Park Ave. and 38th St. Archts. est. $1,300,000.

N. Y., New York—OFFICE—Standard Arcade Building Corp., 50 Bway., having plans prepared by H. C. Severance, engr. and archt., 36 West 44th St., 35 story, b k, steel and stone, plain foundation, 44 E y.

N. Y., Richmond (Ind. br. Jamaica) THEATRE — A. Market, 144 William St., Jamaica, having plans prepared by T. R. Short, 370 Macon St., Brooklyn, 2 story, 100 x 200 ft., brick, steel and stone, plain foundation, Myrtle and Hillside Aves. $275,000.

N. J., Moorestown — BANK—Burlington County Trust Co., J. P. Hopkins, p s., having plans prepared by Simon & Simon, 249 South Juniper St., Phila., Pa., 2 story and basement, 50 x 125 ft., steel and stone, plain foundation, 74 East Main St.

Pa., Easton—THEATRE—T. B. Hoffman having plans prepared by Kirkpatrick & Martin, 220 South 16th St., Phila., 2 story, 120 x 120 ft., brick and steel, East Northampton St. $600,000.

Pa., Williamsport — THEATRE — Chamberlain-Comerford Co., J. R. Cadore (representative), 341 Pine St., plans 2 story and basement, 120 x 140 ft., brick, steel and concrete, 4th St. $650,000.

Md., Baltimore—GARAGE—Owner, c/o F. N. Inglehart & Co., 11 East Lexington St., plans 6 story, 100 x 100 ft., brick and steel, plain foundation, Water St. between Calvert and South Sts. $300,000. Engineer and architect not selected.

W. Va., Clarksburg — OFFICE and STORE—J. G. McCrory, 1107 Bway., New York City, N. Y., plans 4 story, brick and stone, plain foundation, 320 West Main St., here. $250,000.

N. C., Charlotte — APARTMENT — J. A. Jones, pres J. A. Jones Constr. Co., Charlotte, plans 8 story and basement, 51 x 155 ft. brick and steel, East Morehead and South McDowell Sts. $500,000.

Fla., Fort Lauderdale—HOTEL—C. E. Neville & A. S. Gray, et al., Miami, having plans prepared by W. A. Bennett, Miami, 6 story hotel, Northwest 13th and 1st Sts., here. $600,000.

Fla., Gainesville—HOSPITAL—Alachua Co., election Feb. 12, $150,000 bonds, hospital.

Fla., Lakeland — HOTEL — Harneden Beach Hotel Corp., having plans prepared by R. C. Snow, 93 Linwood Ave., Atlanta, Ga., 4 story, 150 room hotel. $500,000.

Fla., Tampa—CLUB—Tampa Y. W. C. A., A. K. Dickinson, pres., plans Y. W. C. A., 601 Twigg St. $750,000. M. Manley, Miami, archt.

Fla., Tampa—HOTEL—Tampa Beach, Inc., J. R. Clark, pres., purchased site and plans 5 story, 300 room, Tampa Beach. $1,500,000.

Fla., Tampa—STORE and OFFICE—J. Maas, et al., purchased site and plan probably 8 story building, 703-705 Franklin St. $500,000.

Ala., Birmingham — FIRE HOUSES — Election Apr. 15, $300,000 bonds, 4 new fire houses.

Miss., Gulfport—BANK and OFFICE—Bank of Gulfport soon takes bids 7 story, rein.-con., brick, steel and stone, 14th St. and 25th Ave. $300,000. N. W. Overstreet, Jackson, archt. Noted Jan. 28.

Miss., Jackson—STATION—Illinois Central R.R. Co., 135 East 11th Pl., Chicago, Ill., A. F. Blaess, ch. engr., plans 2 story, brick and limestone passenger station, here. $250,000.

Miss., Vicksburg—HOTEL—A. H. Alvis, Jackson, having plans prepared by N. W. Overstreet, Jackson, Vicksburg Hotel, 7 story, 143 rooms, Cherry St. $500,000.

La., New Orleans — HOSPITAL — Soniat Mercy Hospital, Annunciation St., having plans prepared by Andry & Feitel, Carondlet Bldg., and soon takes bids 2 story and basement, rein.-con. and steel addition, pile foundation. $225,000.

Tenn., Nashville—OFFICE—Bennie-Dillon Realty Co., c/o W. W. Dillon, pres., 1715 Broad St., having plans prepared by Asmus & Clark, Stahlman Bldg. (2nd unit) concrete, brick and terra cotta, 7th and Church Sts. $500,000.

O., Akron—HOTEL—Portage Hotel Co., E. F. Haupt, mgr., having preliminary sketches made by Eseenwein & Johnson, 781 Ellicott Sq., Buffalo, N. Y., brick, steel and concrete hotel. $300,000.

O., Canton—BUSINESS—East Ohio Gas Co., 406 Tuscarawas St. W., plans 4 story and basement, 66¾ x 80 ft., 2nd St. N. W. at Dewalt St. $200,000. W. J. Morgan, local mgr.

O., Cleveland — APARTMENT — H. L. Haines, 12429 Cedar Rd., having plans prepared by R. H. Hinsdale, Erie Bldg., 3 story and basement, 67 x 125 ft., brick, Cornell Rd. $150,000.

O., Cleveland—COMMERCIAL and TEMPLE—Brooklyn Masonic Temple Co., 8841 West 25th St., had plans prepared by D. H. Farnam, The Arcade, 5 story and basement, brick, steel and concrete, West 25th St. and Garden Ave. $400,000.

See proposal advertisements on page 130, Advertising Section.

Buildings—Commercial (Continued)

O., Cleveland—HOTEL—G. J. Paul, Fidelity Mortgage Bldg., having tentative plans prepared 10 story and basement, brick, steel and concrete, East 6th St. and Superior Ave. Engineer and architect's names withheld.

O., Lakewood (br. Cleveland) — COMMERCIAL and THEATRE—H. Robbins, Hippodrome Bldg., and M. Rubin, Ulmer Bldg., both Cleveland, having revised plans prepared by Braverman & Havermaet, 208 Ulmer Bldg., Cleveland, 1 and 2 story, 115 x 240 ft., brick, steel and concrete, Madison Ave. and Hilliard Rd., here. $350,000.

O., Lorain — APARTMENT — Overlook Apartment Co., c/o E. McGeorge, archt., 3030 Euclid Ave., Cleveland, having plans prepared 4 story and basement, brick, steel and concrete, East Erie St., here. $250,000.

O., Youngstown—BANK and OFFICE—Central Savings & Loan Co., plans bank and office, Federal St. and Central Sq. $400,000.

Ind., Bloomington—LODGE—Elks Lodge, F. Matthew, chn., plans steel, stone and rein.-con., 8th and Walnut Sts. $150,000. McGuire & Shook, 320 Ind. Pythian Bldg., Indianapolis, archts.

Ind., Indianapolis — APARTMENT — Owner, c/o E. D. Logsdon, pres., 817 Traction Terminal Bldg., plans 3 story and basement, 151 x 197 ft., brick, steel and rein.-con., Virginia and McCarthy Sts. $160,000.

Mich., Detroit — COUNTRY CLUB — Cherry Hill Country Club, c/o H. T. Millar, archt., 242 West Lafayette Ave., having plans prepared 2 and 4 story, 300 ft. long, brick and steel, plain foundation. $750,000.

Mich., Detroit — COURTHOUSE — Dept. Pub. Wks., City Hall, having preliminary plans prepared by Smith, Hinchman & Grylls, 800 Marquette Bldg., remodeling courthouse, Antoine and Clinton Sts., incl. new 7th story to present building $121,000, 3 story wing $171,000, new wing, 3 stories finished and 3 unfinished $251,000, and remodeling 2nd floor $28,000.

Mich., Detroit—TEMPLE—Detroit Aerie 82, Order of Eagles, 1310 Temple Ave., plans rein.-con., brick and steel, plain foundation, Temple Ave. $1,000,000. Engineer and architect not selected.

Mich., Muskegon — Y.M.C.A. Building Comn., Armory-Morris Ave., having plans prepared by E. E. Valentine, Muskegon and takes bids about Apr. 1, 4 story and basement, 120 x 138 ft., rein.-con. and brick, plain foundation. $285,000. Foeller, Schober & Stephenson, 225 Adams St., Green Bay, Wis., engrs.

Ill., Chicago—APARTMENT HOTEL—J. W. Barger, et al., 1144 Thorndale Ave., having sketches made 12 story, 90 x 110 ft., Farwell and Wayne Aves. $1,200,000. Engineer and architect not selected.

Ill., Chicago—APARTMENT—Delaware Pl. Building Corp., E. L. Berman, pres., having sketches made by J. A. Armstrong, 137 North Dearborn St., 16 story, 80 x 100 ft., apartment, Delaware Pl. near Rush St. $500,000.

Ill., Evanston — APARTMENT — A. H. Quitsow, archt., 11 South La Salle St., Chicago, making plans and takes bids about Feb. 15, 3 story and basement, 100 x 152 ft., brick, Sheridan Rd. near Keeney Ave., $150,000. Owner's name withheld.

Wis., Madison — THEATRE — Saxe Amusement Co., c/o T. Saxe, secy., 530 Grand Ave., Milwaukee, having plans prepared by Rapp & Rapp, 190 North State St., Chicago, Ill., 2 story, rein.-con., brick and steel, plain foundation, State St. $559,000.

Wis., Milwaukee—OFFICE and STORE—R. T. Maischoss, 477 Menlo Blvd., having plans prepared by A. W. Hoffmann, 86 Michigan St., 6 story and basement, 120 x 120 ft., brick and concrete, plain and wood pile foundation, Wisconsin St. $600,000. Noted Jan. 21.

Wis., Milwaukee — WAREHOUSE—Milwaukee Warehouse Co., South Water St., having plans prepared by Leenhowts & Guthrie, 424 Jefferson St., 5 story, 42 x 177 ft. and 55 x 117 ft., brick, concrete and steel, plain and wood pile foundation, South Water St. $150,000.

Minn., Rochester—CLINIC—Mayo Clinic making plans 7 or 8 story and basement, rein.-con., brick and stone clinic addition. $1,500,000. Engineer and architect not announced.

Neb., Grand Island—THEATRE—Hostetler Amusement Co., Brandeis Theatre Bldg., having plans prepared by J. Eberson, 212 East Superior St., Chicago, Ill., and takes bids after Feb. 15, brick and terra cotta theatre. $200,000.

Neb., Omaha—OFFICE—T. A. Leisen, mgr. and engr., City Hall, making plans and takes bids about Apr. 1, 4 story and basement, 18th and Harney Sts., to be used by Water & Gas Depts., for Metropolitan Utilities Dist. City Hall. $300,000. Noted Dec. 3.

Neb., Omaha — STORE — G. B. Prinz, archt., 1037 Omaha Natl. Bank Bldg., takes bids after Mar. 1, 6 story, 45 x 132 ft., brick and stone addition, 1513 Douglas St., for T. Kilpatrick Co., 1511 Douglas St. $250,000.

Neb., Omaha — THEATRE — Orpheum Circuit, c/o M. Singer, genl. mgr., 1301 Madison Park, Chicago, Ill., making plans 3 story and basement, theatre, 3,000 seating capacity, 15th and Harney Sts., here. $1,000,000. Engineer and architect's names withheld.

S. D., Watertown — COURT HOUSE — Codington Co. election Mar. 24, $200,000 bonds, 3 story and basement court house. C. D. Haywood, aud. $250,000. Engineer and architect not announced.

Mo., Kansas City—TEMPLE—Scottish Rite Temple Assn., c/o F. O. Wood, Scottish Rite Temple, 15th St. and Troost Ave., having plans prepared 3 story and basement, 250 x 250 ft., rein.-con. and stone, Linwood and Paseo Blvds. $1,500,000. Engineer and architect not announced.

Mo., St. Louis — COMMERCIAL — Local Syndicate, c/o Mississippi Valley Trust Co., 4th and Pine Sts., making preliminary plans 8 story and basement, 100 x 155 ft., brick, concrete and terra cotta, 17th St. and Locust Blvd.

Mo., St. Louis—COMMERCIAL—Owner, c/o Jost-Miller Real Estate Co., 105 North 9th St., purchased site and plans 3 story and basement, 150 x 189 ft., brick and concrete, Washington Ave.

Tex., Dallas — OFFICE — General Building Corp., c/o M. Matson, 816 Thomas Bldg., having plans prepared by A. F. Korn, 816 Thomas Bldg., 22 story and basement, 80 x 120 ft., rein.-con., brick, stone and steel, St. Paul St., Oak and Pacific Aves., $1,500,000.

Tex., San Antonio — MERCANTILE — Sears-Roebuck & Co., Arthington and Homan Sts., Chicago, Ill., purchased site and having preliminary plans prepared 10 story and basement, 140 x 160 ft., permanent construction, 10th St. and Bway., here. $500,000. Private plans.

Tex., Vernon—HOTEL—E. O. Thompson, Amarillo, plans 5 story and basement, brick, stone and rein.-con. hotel. $240,000. Engineer and architect not selected.

Okla., Tulsa — CONVENTION HALL — City having preliminary plans prepared 3 story and basement convention hall, Boston St. $250,000. Engineer and architect not announced.

Okla., Tulsa—COURT HOUSE—Tulsa Co. making preliminary plans 3 story and basement court house, Detroit St. $300,000. Engineer and architect not selected.

Colo., Denver—THEATRE and OFFICE—United Theatres & Building Co., c/o F. Milton, Rivoli Theatre, having plans prepared by L. A. Desjardins, Colorado Natl. Bank Bldg., theatre and office building. $2,000,000.

Wash., Bellingham—MUNICIPAL—City and Whatcom Co. having preliminary plans prepared by T. F. Doan, Sunset Bldg., 4 story and basement, 100 x 240 ft., concrete and steel municipal building. $600,000.

Calif., Alameda — HOTEL — Alameda Community Hotel Corp., c/o Chamber of Commerce, plans fireproof hotel. $400,000. Engineer and architect not selected.

Calif., Fresno—THEATRE—L. L. Cory, Cory Bldg., having preliminary plans prepared by E. Mathewson, Cory Bldg., general reconstructing present theatre.

Calif., Long Beach — HOTEL and APARTMENT—J. F. Grable, c/o W. H. Austin, archt., Pacific Southwest Bldg., having preliminary plans 5 story, fireproof, West Bway. $150,000 or more.

Calif., Los Angeles—APARTMENT—Los Angeles Housing Corp., Black Bldg., had preliminary plans prepared by E. Van Den Hoven, Black Bldg., 6 story and basement, 48 x 140 ft., timber and tile, incl. swimming pool, Alvarado St. $300,000.

Calif., Los Angeles—APARTMENT and HOTEL—H. Warner, c/o L. A. Smith, archt., Film Exch. Bldg., had plans prepared 4 story and basement, 60 x 145 ft., brick, Washington Blvd. $250,000.

Calif., Los Angeles — MERCANTILE — Ralph's Grocery Co., 926 West 7th St., having plans prepared by Morgan, Walls & Clements, 1124 Van Nuys Bldg., 2 story, 150 x 200 ft., rein.-con., 7th Ave. and Washington St. $150,000.

Calif., Los Angeles—THEATRE, STORE and OFFICE—W. H. Fisher, Union Oil Bldg., having revised plans prepared by L. A. Smith, Film Exch. Bldg., 2 story and basement, brick and rein.-con., LaBrea Ave. near Wilshire Blvd. $350,000. Noted Dec. 31.

Calif., Oakland—MERCANTILE—Montgomery-Ward Co., 2825 East 14th St., purchased site and plans (3rd unit) of plant, fireproof, East 14th St. $150,000 or more.

Calif., Oakland — THEATRE — R. Midgley, Amer. Theatre, San Pablo Ave. and 17th St., plans theatre, 3,600 seating capacity. $1,000,000.

Calif., Oroville — LODGE — Oroville Lodge, B. P. O. E., having plans prepared by Starks & Flanders, Ochsner Bldg., Sacramento, 4 story and basement, brick and steel lodge. $250,000.

Calif., Oroville—THEATRE—Paramount Theatre Corp., c/o Starks & Flanders, archts., Ochsner Bldg., Sacramento, had plans prepared concrete and steel, 1,500 seating capacity. $250,000.

Calif., San Francisco—APARTMENT and STORE — Sbarboro-Detjen & Jorgenson, 2300 Chestnut St., plans rein.-con., Chestnut St. near Scott St. $250,000.

Calif., San Francisco—GARAGE—Dunn-Williams Co., 156 Montgomery St., plans 8 story and basement, rein.-con., Sutter St. near Powell St. $300,000. Engineer and architect's names withheld.

Calif., San Francisco—STORE and LOFT—C. Rodoni, 312 Bush St., having revised plans prepared by E. E. Young, 2002 California St., 6 story and basement, rein.-con. store and loft building instead of hotel, Stockton St. near Bush St. $160,000. Noted Oct. 29.

Calif., Santa Monica — STORE and OFFICE — R. Garvey, Jr., 2300 West 9th St., Los Angeles, plans 5 or 6 story store and office building, Santa Monica Blvd. and 5th St., here. Engineer and architect not selected.

Ont., Ottawa—LIVE STOCK—Bd. Control plans brick or stone and steel, plain foundation, Bank St. $225,000. Engineer and architect not selected.

Ont., Ottawa—MEMORIAL—Dept. Pub. Wks. soon takes bids 3 story and basement, rein.-con. and stone, plain foundation, Lady Grey Rd., for Canadian Womens Memorial. $250,000. R. C. Wright, Dept. Pub. Wks., ch. archt.

BIDS DESIRED

Mass., Springfield — See "Contracts Awarded."

Conn., Bristol — THEATRE — Colonial Theatres, Inc., c/o A. H. Lockwood and S. A. Peters, 102 South St., New Britain, and Mowll & Rand, archts., 21 School St., Boston, Mass., taking bids 2 story, 75 x 175 ft., brick and stone, Main St., here. $350,000. Noted Dec. 24.

Conn., Waterbury—HOME—St. Mary's Hospital, Union and Franklin Sts., taking bids 4 story and basement, 41 x 162 ft., brick and steel, South Elm St. $200,000. L. A. Walsh, 51 Leavenworth St., archt.

N. J., Newark—HALL of RECORDS, etc.—Mar. 3, by Essex Co., E. C. Ball, chn. building com., Courthouse, brick, steel and stone, plain foundation, 465 High St. $2,100,000. Runyon & Carey, Broad St., engrs. Guilbert & Betelle, Chamber of Commerce Bldg., archts. Noted Jan. 7.

Pa., Altoona—HOSPITAL—Mar. 15, by W. F. Beck, secy. Mercy Hospital Assn., 8th Ave. and 26th St., 4 story and basement, 90 x 100 ft., concrete, steel and brick addition, 26th St. and 8th Ave. $150,000. Hersh & Shollar, Commerce Bldg., archts.

Pa., Phila. — EXHIBITION — Feb. 16, Sesquicentennial Comn., at office H. T. Baxter, executive secy., 926 Widener Bldg., piling and filling for site of Pennsylvania State Building, 1 story, 225 x 330 ft. with wing 90 ft. at each end, stucco and steel, State St. and Pattison Ave. R. B. Benecker, Bellvue Bldg., archt.

N. C., Morehead City — MUNICIPAL — Feb. 23, by L. Hamilton, mayor and Bd. City Comrs., 2 story, brick, stone and stucco municipal building, etc. $150,000. Gladding Eng. Co., Wilson, engrs.

Fla., Pensacola—HOTEL—Mar. 1, by E. Weil, Inc., archts., Whitney Bldg., New Orleans, La., 18 story, fireproof annex to San Carlos Hotel, here.

O., Columbus—HORTICULTURAL and AGRICULTURAL—Mar. 2, by C. V. Truax, dir. Ohio Dept. Agriculture, State House, part 1 and part 2 story, 98 x 300 ft., brick and concrete, State Fair Grounds, $165,000. H. H. Briggs, Ohio Hartman Bldg., archt.

O., Lakewood (br. Cleveland)—STORE and APARTMENT—Apr. 1, by E. Brudno, Leader-News Bldg., Cleveland, 3 story and basement, brick and steel, Madison and Mars Aves., here. $150,000. M. Weis, Union Bldg., Cleveland, archt.

Ind., Indianapolis—WAREHOUSE—Feb. 15, by Vonnegut Hardware Co., 120 East Washington St., 6 story and basement, 101 x 195 ft., brick, steel and rein.-con. $300,000. Vonnegut, Bohn & Mueller, Indiana Trust Bldg., archts.

Wis., Kenosha—CLUBHOUSE—Lindl & Schutte, archts., 82 Wisconsin St., Mil-

See proposal advertisements on page 130, Advertising Section.

Buildings—Commercial (Continued)

waukee, taking bids 3 story and basement, 86 x 132 ft., brick, stone and concrete, plain foundation, Market St., for Kenosha Lodge 286, L. O. O. M., 406 Market St. $250,000. Noted Dec. 31.

Calif., Los Angeles—STORE—Felchin, Shaw & Franklin, archts., Commercial Exch. Bldg., taking bids 6 story and basement, 60 x 152 ft., rein.-con., Flower St., for Meyer-Siegel & Co., 617 South Bway. To exceed $250,000. Noted Jan. 28.

Calif., San Francisco — STORE and APARTMENT—See "Contracts Awarded."

BIDS RECEIVED

N. J., Jersey City — JAIL — Bd. Freeholders Hudson Co., Jan. 28, general contract 3 story, brick and steel, plain foundation, Newark Ave. and Willow Court, from W. H. and F. W. Cane, Inc., 10 Journal Sq., $1,297,228; plumbing, from E. H. Moore Co., 733 Communipaw Ave., $53,093; heating, etc., from J. H. Cooney, 210 North 4th St., Harrison, $38,900; and electrical work, from W. J. Coleman, 29 Willow Court, $29,-650. Noted Jan. 7.

Ia., Des Moines—TEMPLE—Des Moines Consistory 3, c/o Secretary, 306 Masonic Temple, general contract 5 story and basement, 117 x 164 ft., rein.-con. and brick, plain foundation, 6th Ave. and Park St., from A. H. Neumann & Co., 519 Hubbell Bldg., $526,225; plumbing, heating and ventilating, from Van Dyck Plumbing & Heating Co., 1111 Walnut St., $58,900. Noted Jan. 21.

Calif., Santa Barbara — HOTEL and STORE — N. Calahan, c/o Sauter & Lockard, archts., San Marcos Bldg., 4 story and basement, rein.-con., Cota and Estado Sts., from A. Johnson, 74 New Montgomery St., San Francisco, $176,500.. Noted Dec. 24.

CONTRACTS AWARDED

Mass., Cambridge (Boston P. O.) — APARTMENT — Forest Realty Trust, 27 School St., Boston, 4 story, 150 x 155 ft., brick, artificial stone and steel, plain foundation, Forest St., to H. Tasker, 51 Cornhill, Boston. Archts. est. $300,000.

Mass., Springfield—HOTEL—A. Freedman Real Estate Co., 214 Belmont Ave. will build 6 story and basement, 97 x 125 ft. brick and steel, Liberty St., by day labor. $190,000. J. W. Foster, 105 Bridge St., archt. Noted Oct. 29.

Conn., Hartford — THEATRE — Allyn Realty Co., R. J. Allyn, Allyn House, Asylum St., 1 story and basement, 92 x 145 ft., brick and steel, 2,000 seating capacity Asylum St. near Ann St., to R. F. Jones Co., 36 Pearl St. Archts. est. $350,-000. Private plans. Noted Dec. 24.

N. Y., Mt. Vernon — APARTMENT — Hopewell Development & Impvt. Co., E. Hufnagle, pres., 50 South 2nd Ave. 7 story, brick, steel and stone, plain foundation, Rich Ave., to A. Stolz, Gramatan Ave. Archts. est. $400,000.

N. Y., New York—BANK and OFFICE—Oceanic Investing Co., A. E. Thorne, 49 Wall St., 15 story, 40 x 135 ft., brick, steel and stone, plain foundation, 1 East 42nd St., to Caldwell-Wingate Co., 381 4th Ave. Archts. est. $1,500,000.

Pa., Pittsburgh — GARAGE — William Penn Garage Co., 616 Webster Ave., general contract incl. mechanical trades, 9 story, 45 x 60 ft., and 90 x 140 ft., steel, concrete, granite stone and terra cotta, to Everett Winters Co., 1024 Book Bldg., Detroit, Mich., approximately $750,000.

N. C., Winston-Salem—OFFICE—W. M. Nissen, 18 story and basement, 100 x 123 ft., brick, steel and stone, plain foundation, 4th and Cherry Sts., to Hunkin-Conkey Co., Hunkin-Conkey Bldg., Cleveland, O. Noted Jan. 28.

Ga., Atlanta — GARAGE and SALES ROOM—C. A. Sisson, 3 story, steel, etc., garage and salesroom, to C. D. Crockett & Co., 316 Bona Allen Bldg. Archts. est. $200,000.

Fla. Fort Myers—HOTEL—C. W. Russell, et al., 10 story, 155 ft. frontage, community hotel, Anderson Ave. and McGregor Blvd., to Day & Zimmerman, 16th and Walnut Sts., Phila., Pa., $650,000.

O., Canton—THEATRE—Palace Amusement Co., 1 story, 100 x 146 ft., brick, steel and concrete, to R. G. Witters, 312 3rd St. N. W. Archts. est. $250,000.

O., Cleveland—EXCHANGE—Ohio Bell Telephone Co., 4300 Euclid Ave., 2 story and basement, 83 x 103 ft., rein.-con. and brick, 18900 Nottingham Rd., to Crowell & Little Constr. Co., Hanna Bldg. Archts. est. approximately $150,000. Noted Jan. 14.

Ind., Indianapolis—GARAGE and STORE —Alabama & Market Realty, general contract 4 story, 60 x 195 ft., brick, steel and rein.-con., Market and Alabama Sts., to Caldwell & Pruitt Co., Peoples Bank Bldg., $150,000.

Mich., Detroit — TERMINAL WAREHOUSE—Coe Terminal Warehouse, 5620 Federal Ave., 6 story and basement, 125 x 550 ft., rein.-con. and brick, plain foundation, West Fort St., to Walbridge Aldinger Co., 2356 Penobscot Bldg. Archts. est. $3,-000,000. Noted Jan. 14.

Mich., Detroit—THEATRE and OFFICE —Stair-Shubert Realty Co., Free Press Bldg., 6 story and basement, 130 x 160 ft., rein.-con., brick and steel, plain foundation, Lafayette Blvd., structural steel, to Russell Wheel & Fdry. Co., Joseph Campau Ave. and B. L. Ry.; walls, etc., to E. L. Johns, 1901 Washington Blvd. Bldg. Noted Oct. 1.

Mich., St. Clair—HOTEL—W. H. Worth, archt., Port Huron, 4 story and basement, rein.-con. and steel, plain foundation, Main St., to F. R. Patterson Constr. Co., 2021 Woodward Ave., Detroit. Archts. est. $150,000. Noted Jan. 28.

Ill., Chicago—APARTMENT—Guskin & Foster, archts., 750 North Michigan Ave., masonry and concrete contract 10 story and basement, 50 x 100 ft., brick and steel, 240 East Delaware St., to A. Lindstrum, 77 West Michigan Ave.; carpentry, to A. Johnson, 4317 North Richmond Ave.; plumbing, to T. J. O'Malley, 308 West Oak St., for A. O'Rourke & Co., 111 West Washington St. Archts. est. $500,000. Noted Nov. 12.

Ill., Chicago—APARTMENT—P. Mortensen, 4804 North Kedzie Ave., general contract 4 story, 50 x 180 ft. apartment, 4630 Beacon St., to Thorgerson & Erickson, 4804 North Kedzie Ave. Archts. est. $200,000.

Ill., Fairmont City (mail East St. Louis) — CLUB — Fairmont Jockey Club, c/o R. Head, genl. mgr., Hotel Jefferson, St. Louis, Mo., steel contract 3 story, 80 x 200 ft., rein.-con., brick and steel here to St. Louis Structural Steel Co. Syndicate Trust Bldg., St. Louis, Mo. Archts. est. $150,000.

Wis., Milwaukee—BANK—Van Ryn & De Gelleke, archts., 114 Grand Ave., 4 story and basement, 62 x 110 ft., rein.-con., brick and stone, plain foundation, East Water St., to H. Danischefsky, 1484 Humboldt Ave., for Natl. Exchange Bank, 367 Bway., $375,000. Noted Nov. 12.

Wis., Oshkosh — OFFICE — Wisconsin Natl. Life Insurance Co., 14 Washington St., 3 story and basement, 77 x 103 ft., stone and concrete, plain foundation, here, to Fluor Bros. Constr. Co., 52 Otter St. Archts. est. $200,000. Noted Jan. 21.

Ia., Iowa City—MEMORIAL—Iowa Memorial Assn., R. H. Fitzgerald, chn., (2nd unit), 3 story and basement, 54 x 136 ft., rein.-con., brick and stone, on campus, to T. Stark & Co., 118 South 11th St. W., Cedar Rapids. Archts. est. $200,000. Noted Jan 21.

S. D., Redfield—COURT HOUSE—Spink Co., H. G. Joy, aud., general contract 3 story and basement, 98 x 104 ft., rein.-con., brick and stone, to Standard Constr. Co., 1111 Plymouth Bldg., Minneapolis, Minn. Archts. total est. $300,000. Noted Jan. 7.

Mo., Jefferson City—HOTEL—Central Hotel, 10 story and basement, 43 x 74 ft., brick, rein.-con. and terra cotta addition, also remodeling present 5 story and basement building, to E. Dreier & Son, Peoples Natl. Bank Bldg., Kansas City, Kan. Archts. est. $350,000.

STAIRWAY—NEW YORK, N. Y.

Bids were opened by Board of Transportation, 49 Lafayette St., for additional stairway, 86th St. Station, Manhattan-Bronx Rapid Transit R.R., (A) Pattelli & Wilson, 6011 12th Ave., Brooklyn, (awarded contract); (B) Lawrence J. Rice, 464 Linden Blvd., Brooklyn; (C) Pairier Contracting Co., 1480 Broadway; (D) The English Construction Co., Inc., 15 West 91st St.; (E) C. Meade & Co., 217 West 14th St.; Gibbs-Rice Co., 2541 Aqueduct Ave., Bronx, $24,471; F. Persicano, 489 Lenox Rd., Brooklyn, $26,351; N. A. Deiser, 280 Madison Ave., $27,368; Ascher Engineering & Construction Co., 1457 Broadway, $31,442. The unit bids of the lowest four and highest bidders are as follows:

	A	B	C	D	E
400 cu.yd. earth excavation	$18.00	$12.00	$15.00	$8.75	$25.00
90 cu.yd. concrete masonry	25.00	25.00	28.00	35.00	40.00
50 cu.yd. protective concrete masonry	28.00	25.00	20.00	39.20	50.00
15 cu.yd. removal of concrete masonry	34.00	30.00	50.00	35.00	60.00
3 sq.yd. vitrified brick lining for sewers	15.00	10.00	10.00	25.00	40.00
400 sq.yd. waterproofing (c) 3-ply	2.00	3.00	2.25	1.50	3.20
12 sq.yd. (f) 6-ply	5.00	6.00	4.00	2.25	6.00
60 lin.ft. c.i. pipe (a) 3-ply	1.00	2.00	3.00	1.40	7.00
50 lin. ft. (c) 6-ply	2.00	4.00	5.00	2.10	10.00
10 lin.ft. gavanized steel pipe (c) 6-ply	3.00	4.00	5.00	5.00	7.00
6.5 ton riveted steel	150.00	125.00	175.00	160.00	200.00
0.75 ton steel rods and bars	120.00	100.00	120.00	168.00	200.00
1 ton miscellaneous iron castings	150.00	200.00	175.00	163.00	350.00
50 sq.yd. street surfaces restored (a) within curb lines	4.00	1.00	4.00	4.90	9.00
60 sq.yd. street surfaces restored (e) asphalt between curbs	6.00	5.00	6.50	6.30	12.00
1 ton c.i. sewer pipe (straight)	60.00	200.00	200.00	150.00	275.00
0.5 ton. c.i. sewer pipe (special)	100.00	200.00	400.00	225.00	400.00
10 lin.ft. flat top reinforced concrete sewers (a) 3 ft. 6 in. x 2 ft. 4 in.	20.00	15.00	50.00	8.40	35.00
6-ton new c. i. hub and spigot straight pipe	30.00	150.00	125.00	120.00	200.00
3 ton new c. i. hub and spigot special pipe	50.00	250.00	300.00	180.00	300.00
1,200 sq.ft. W. G. tile, 3 x 6 in. (a) straight	1.20	2.00	1.50	1.54	2.60
10 sq.ft. (c) 2½ in. radius	2.50	5.00	3.00	2.80	4.00
10 sq.ft. (d) 20 in. radius	2.50	5.00	3.00	2.80	4.00
350 sq.ft. w. p. vitreous or semi-vitreous colored tile (a) straight	2.20	2.50	2.00	2.80	4.00
10 sq.ft. (c) 2½ in. radius	3.50	6.00	4.00	4.20	5.00
10 sq.ft. (d) 20 in. radius	3.50	6.00	4.00	4.20	5.00
10 sq.ft. Mosaic bands	5.00	5.00	10.00	4.20	5.00
10 sq.yd. plastering (a) concrete brick or h.t.	2.00	3.00	1.50	1.75	4.00

See proposal advertisements on page 130, Advertising Section.

	A	B	C	D	E
5 sq.yd. (b) metal lath	$2 20	$4 00	$2 00	$1 75	$5 00
10 sq.ft. cement floors, etc. (a) wainscot and bases	50	1 00	1 50	39	1 30
420 sq.ft. (c) 3-in. floor fin	60	50	70	31	80
30 sq.ft. (d) finish on brick, concr. h.t.	50	30	70	28	60
30 cu.ft. concrete work (a) coping	2 00	1 50	2 00	1 68	2 50
210 ft. tread concrete stairs, etc. (c) supported stairs	2 00	2 00	1 25	2 52	4 00
65 sq.ft. (d) supported stairs landings	80	1 50	1 00	39	2 60
120 sq.ft. (f) non-slip treads	2 00	1 50	3 00	2 10	2 50
65 lin.ft. (g) cement bases, wall strings	80	50	1 00	43	1 30
7 cu.ft. brick masonry (c) common brick	3 00	4 00	3 00	2 10	3 00
300 cu.ft. h. t. masonry (b) 3-in.	1 30	2 00	1 50	1 40	1 30
40 cu.ft. (c) 4-in.	1 00	2 00	2 00	1 40	1 20
30 weep holes in h. t.	50	50	1 00	28	70
10 galv. strap anchors	1 50	50	3 00	49	1 20
5 sq.yd. metal lath (a) without furring	1 20	1 00	1 00	1 65	6 00
1 masonry change booths (a) type "IB"	1,000 00	1,000 00	800 00	1,330 00	1,500 00
1 temporary wooden change booth	200 00	200 00	200 00	210 00	500 00
15 sq.ft. kalamein doors, (k) type "K"	4 00	4 00	3 00	100 00	6 00
25 sq.ft. brackets, frames and access (g) enameled sign plates	2 00	2 00	3 00	2 10	5 00
25 lin.ft. street railings (b) type "KI"	22 00	25 00	12 00	23 80	40 00
80 lin.ft. oak handrails	2 00	1 00	1 00	2 45	4 00
265 lin.ft. steel electric conduits (a) ¾-in.	40	50	30	56	80
105 lin.ft. (b) 1-in.	40	1 00	50	63	90
26 c. i. outlet boxes	2 00	3 00	1 50	2 10	4 00
3 c. i. pull boxes (f) 6 in. x 6 in. x 4 in.	7 00	8 00	20 00	8 40	12 00
1 (o) 4 in. x 4 in. x 2 in	2 00	8 00	10 00	8 40	10 00
2 floor drainage fittings (b) c. i. covers	20 00	10 00	10 00	14 00	25 00
2 (c) cleanout boxes	20 00	20 00	10 00	14 00	20 00
1 steel, panel board box (i) 27 in. x 6 in. x 53 in.	90 00	25 00	75 00	98 00	125 00
450 sq.ft. painting plaster, concrete (c) 2 coats on plaster	20	10	10	14	10
Cutting, removing steel 86 st. sta. subdiv. No. 9 (lump sum)	250 00	200 00	150 00	455 00	600 00
Dismember, remove, transport wooden ticket booth 86 St. Sub. No. 14 (lump sum)	150 00	50 00	100 00	175 00	350 00
Remove, clean, reset brick plaster band Subdiv. No.14 (lump sum)	200 00	350 00	300 00	175 00	500 00
Extended totals	$21,967	$22,374	$23,245	$23,416	$38,231

Buildings—Commercial (Continued)

Mo., St. Louis—HOME—La Beaume & Klein, archts., Compton Bldg., 3 story and basement, 134 x 180 ft., rein.-con., brick and stone, Locust St., to H. M. Edmunds Building Co., 114 North 17th St., for Womens Christian Home, 1815 Washington Ave. Noted Jan. 21.

Mo., St. Louis—HOSPITAL—Le Beaume & Klein, archts., Compton Bldg., 8 story and basement, 90 x 150 ft., rein.-con., brick and stone, Kingshighway, to J. Hill Constr. Co., Syndicate Trust Bldg., for St. Louis Maternity Hospital, 4518 Washington Blvd. Archts. est. $500,000.

Mo., University (St. Louis P. O.) — APARTMENT — M. Goldman, Title Guaranty Bldg., St. Louis, 3 story and basement, 100 x 102 ft., rein.-con., brick and stone, to V. A. Chinberg, 808 Chestnut St., St. Louis. Archts. est. $150,000.

Tex., Ft. Worth—BUSINESS—Van Zandt Jarvis, Jarvis Heights, 3 story and basement, brick, stone, steel and rein.-con., 4th and Houston Sts., to J. T. Taylor, 1209 Burk Burnett Bldg., $181,290. F. W. Woolworth & Co., c/o C. C. Foster, dist. mgr., 906 Main St., lessee.

Okla., Guymon — COURT HOUSE and JAIL—Texas Co., 4 story and basement, 83 x 84 ft., rein.-con., brick and stone, plain foundation, to Kreipke-Schafer Constr. Co., Herskowitz Bldg., Oklahoma City, $211,500. Archts. est. $250,000.

Calif., Lankershim—THEATRE, OFFICE and STORE — L. A. Smith, archt., Film Exch. Bldg., Los Angeles, 75 x 200 ft., and 100 x 200 ft., brick, steel and rein.-con., here, to A. C. Perkinson, 3977 South Vermont Ave., Los Angeles, for Hollywood Theatres, Inc., 7425 Sunset Blvd., Los Angeles. $175,000. Noted Jan. 7.

Calif., Los Angeles—CLUB—P. R. Williams, archt., Stock Exch. Bldg., 4 story and basement, 100 x 100 ft., rein.-con., 28th St. and Paloma Ave., to W. Slater Co., 2314 Santa Fe Ave., for Y.M.C.A. $128,650. Noted Jan. 21.

Calif., Los Angeles — STORE and APARTMENT — J. C. Rives, 525 Rives-Strong Bldg., 7 story and basement, 98 x 100 ft., rein.-con., Pico St. and Westchester Pl., to C. A. Fellows, Central Bldg., $350,000. Noted Jan. 28.

Calif., San Francisco—APARTMENT—J. Perry, 6 story and basement, concrete and steel, Eddy St. near Leavenworth St., to Helbing Co., 916 Van Ness Ave., $150,000.

Calif., San Francisco — STORE and APARTMENT — R. McLeran Co., et al., Hearst Bldg., will build 2 story, brick and steel, Mission and 16th Sts., by day labor. $200,000. Private plans.

Buildings—Educational, Religious

PROPOSED WORK

R. I., Providence—CHURCH—Wesleyan Church of Nazarene, Globe and Beacon Sts., plans 1 story and basement, brick and steel, Niagara and Ontario Sts. $150,000. Engineer and architect not selected.

R. I., Providence—SCHOOL—City, W. E. Hartwell, chn., having plans prepared by T. J. Hill Pierce, 30 Allens St., new grammar school addition, Veazie St. $600,000.

R. I., Providence—SCHOOLS—City, Pub. Building Dept., City Hall, having plans prepared by T. J. Hill Pierce, 30 Allens St., additions to Technical Trade and George West Schools. To exceed $150,000.

Conn., Bridgeport — SCHOOL — City, School Bd., having plans prepared by E. G. Southey, 983 Broad St., 2 story and basement, brick and steel addition, Boston Ave. and Huntington Rd. $175,000.

N. Y., Corning — HIGH SCHOOL — Bd. Educ., takes bids about Mar. 15, brick, steel and stone, plain foundation, Kingsburg Ave. $350,000. P. Rogers, 101 Park Ave., New York City, archt.

Conn., Waterbury—SCHOOL—St. Peters and Pauls Parish, soon lets contract, 2 story and basement, brick and steel, Beacher Ave. $150,000. O'Connell & Shaw, 134 Newburg St. Boston, Mass., archts. Noted Mar. 19.

N. Y., Flushing—SYNAGOGUE—Flushing Free Synagogue, Amity St., having plans prepared by M. Courland, engr. and archt., 366 5th Ave., New York City, 2 story, brick, steel and stone, Sanford and Jamaica Aves. $250,000.

N. Y., Greenwich — SCHOOL — Village having plans prepared by Tooker & Marsh, archts. and engrs., 101 Park Ave., New York City, rein.-con. and brick, plain foundation, Main St. $225,000.

N. Y., Laurel Hill (mail Flushing) — SCHOOL — St. Theresa of the Child Jesus Roman Catholic Church, having plans prepared by F. L. Berlenbach, engr. and archt., 260 Graham Ave., Brooklyn, 5 story, 60 x 125 ft., brick, steel and stone, plain foundation, Locust St., here. $200,000.

N. Y., Long Beach—SCHOOL—Bd. Educ. takes bids about Feb. 17 (extended date), brick, steel and stone, plain foundation, Neptune Blvd. and Chester Ave. $175,000. H. L. Smith, 25 West 44th St., New York City, archt. Noted Dec. 17.

N. Y., Newburgh—HIGH SCHOOL—Bd. Educ., having plans prepared by A. F. Gilbert, 358 5th Ave., New York City, 3 story, brick, steel and stone, plain foundation. $400,000.

N. Y., Troy — LIBRARY — Rensselaer Polytechnic Institute, having plans prepared 3 story, 78 x 180 ft., rein.-con., brick and steel, plain foundation, 15th St. $150,000. Private plans.

Pa., South Williamsport (Williamsport P. O.)—SCHOOL—School Dist., W. Wise, secy., plans 3 story and basement, 80 x 100 ft., brick and steel school. $200,000. Engineer and architect not selected.

Md., Baltimore—HOME—Bureau Catholic Charities, 415 Cathedral St., E. L. Leonard, pastor, had plans prepared by G. R. Callis, Jr., Hearst Tower, 3 story and basement, 40 x 145 ft., brick and steel, plain foundation, Roland Ave. $150,000.

Tenn., Nashville—COLLEGE—Southern College of Y. M. C. A., Wesley Hall, W. D. Weatherford, pres., having preliminary plans prepared by H. C. Hibbs, Amer. Trust Bldg., training school building, 21st Ave. $500,000. Noted May 21.

O., Cleveland — DORMITORY, etc. — Laurel School for Girls, S. E. Lyman, pres., 197 East 97th St., having plans prepared by J. H. Graham & Co., 1612 Euclid Ave., brick dormitory, recitation, music and kindergarten buildings, East 97th St. $350,000.

O., Fairport Harbor (br. Painesville) — SCHOOL—St. Anthony of Padua Roman Catholic Church, Z. Demko, pastor, having plans prepared by A. F. Foose & G. Fox, 6523 Euclid Ave., Cleveland, 2 story and basement, 80 x 120 ft., brick and metal lumber school. $150,000.

Ind., Indianapolis — HIGH SCHOOL — St. Peter and St. Paul Cathedral, J. Chartrand, bishop, 1347 North Meridian St., plans high school, 14th and Meridian Sts. $1,000,000.

Mich., Detroit—MEDICAL COLLEGE—Bd. Educ., 1354 Bway. Ave., having plans prepared by Donaldson & Meier, 1314 Penobscot Bldg., 3 story and basement, rein.-con., brick and steel, plain foundation, St. Antoine St. $375,000. Noted May 23.

Mich., Detroit—SCHOOLS—Bd. Educ., 1354 Broadway Ave., plans rein.-con., brick and steel schools, plain foundations, on Hawthorne-Lantz Site $904,960, Elmira-Meyers St. $468,437, on Ravenswood Site, Yellowstone Ave. $445,084, and Pembroke Site, Pembroke Ave., $445,084; intermediate schools at Playfield 5, Luce St. and Conant Rd., $904,960; Detroit Teachers College, West Grand Blvd., $1,867,642; additions to A. L. Holmes School, Georgia Ave. $334,607, to Greenfield-Park School, Brush St. $219,140, and to Eastern High School, East Grand Blvd., $222,966; (1st unit) school,

See proposal advertisements on page 130, Advertising Section.

Buildings—Educational, Religious (Cont.). Lakewood-Leipsic site $174,400, and on Hildale-Packard site, $176,437; (2nd unit) school on Boynton site $292,000, MacCulloch site $270,800, on Clarke site $292,000, Fitzgerald site $292,000, and on Goodale site $270,800. Engineer and architect not selected.

Mich., Detroit — TRADE SCHOOL — Bd. Educ., 1354 Bway. Ave., plans 2 story and basement, rein.-con., brick and steel, foundation. $242,000. Engineer and architect not selected.

Mich., Kingsford Heights (Iron Mountain P. O.)—SCHOOLS—Voted $600,000 bonds, 2 story and basement, brick, tile and concrete, grade schools and addition to high school, for Bd. Educ., Breitung Twp., J. Roth, secy. F. E. & G. F. Parmelee, Iron Mountain, archts.

Ill., Centralia — SCHOOL — Bd. Educ. plans 3 story school. $185,000.

Ill., Chicago — HIGH SCHOOL — Bd. Educ., 646 South Clark St., rejected bids Dec. 15, Hutchinson Junior High School, 3 story and basement, 245 x 475 ft., rein.-con. and brick, plain foundation, Wellington St. and Nordica Ave. $1,200,000. Project may be abandoned. Noted Nov. 26.

Wis., Racine—SCHOOL—Soon lets contract 2 story and basement, 74 x 128 ft., brick, tile and concrete, plain foundation, for St. Edwards Congregation, 1330 Grove Ave. $150,000. Noted Aug. 13.

Ia., Charles City—SCHOOL—Election Feb. 18, $250,000 bonds, 3 story and basement, rein.-con. and brick school. A. R. Eggert, supt. Bd. Educ.

S. D., Brookings — LIBRARY — T. W. Dwight, chn. Bd. Regents, Sioux Falls, plans library at State College, here. $250,000.

Mo., St. Louis—SCHOOLS—Bd. Educ., 911 Locust St., having tentative plans prepared by R. M. Milligan, building comr., c/o owner, 18 room and kindergarten unit, West Belle Pl.; 1,300 pupil unit, Kingshighway and St. Louis Ave.; additional class room and shop units, Mullanphy School; auditorium and shop units, Blow School; intermediate school, 19th St. and Cass Ave.; 18 room and kindergarten unit, Shaw Tract; 12 room and kindergarten unit in Dist. between Union, Clara, Natural Bridge and North Market Sts.; also 8 room and kindergarten unit, Kennard School site, and Lindewood Dist.

Tex., Dallas—HIGH SCHOOL—DeWitt & Lemmon, archts., 507 South West Life Bldg., take bids about Mar. 25, East Dallas High School, 3 story, 230 x 240 ft., brick, stone and rein.-con., Glasgow St. opposite Randall Park, for Bd. Educ., c/o C. M. Moore, secy., Akard and Royal Sts. $550,000.

Tex., Greenville — CHURCH — First Baptist Congregation, c/o A. A. Duncan, pastor, plans brick, stone and rein.-con. church, Crockett and Pickett Sts. $200,000. Engineer and architect not selected.

Calif., Beverly Hills—SCHOOL—Beverly Hills School Dist. having plans prepared by Gable & Wyant, 634 South Western Ave., Los Angeles, 2 story and basement, brick grammar school. $150,000.

Calif., Riverside—SCHOOL—Plans election $1,000,000 bonds, for schools.

Calif., San Leandro — CONVENT and SCHOOL — St. Marys Convent had plans prepared by J. J. Foley, 770 5th Ave., San Francisco, 2 story each, rein.-con., convent and school. $150,000.

Ont., Newmarket — HIGH SCHOOL — High School Bd., W. J. Patterson, chn., having plans prepared by Burden & Gouinlock, 101 King St. W., Toronto, 2 story and basement, rein.-con., brick and steel addition, plain foundation, Prospect Ave. $150,000.

Ont., Toronto — HIGH SCHOOL — Bd. Educ., having plans prepared by C. E. Dyson, 155 College St., High School of Commerce, 3 story and basement, rein.-con., brick and steel, plain foundation. $500,000.

Ont., Toronto—LIBRARY—Library Bd., 226 College St., plans 2 story, concrete, stone and brick, plain foundation. $260,000. Engineer and architect not selected.

BIDS DESIRED

Mass., Winchester—SCHOOL—Feb. 16, by Town, C. R. Main, chn., 2 story and basement, brick and steel, Highland Ave. $150,000. Derby & Robinson, 3 Joy St., Boston, archts. Noted Dec. 24.

Conn., Torrington—CHURCH—Feb. 15, by St. Mary's Church, J. P. Kowelski, pastor, Forest Court, 1 story and basement, 60 x 115 ft., granite, Union St. $200,000. J. A. Jackson, 185 Church St., New Haven, archt. Noted May 28.

N. J., Maplewood (br. South Orange)—HIGH SCHOOL — Feb. 27, by Bd. Educ. School Dist. of South Orange and Maplewood, Essex Co., High School Bldg., Academy St., South Orange, 3 story and part basement, 300 x 300 ft., rein.-con., brick and steel, here. Guilbert & Betelle, Chamber of Commerce Bldg., Newark, archts.; adv. E. N.-R. Feb. 11.

Miss., Laurel—HIGH SCHOOL—Feb. 24, by M. W. McLaurin, mayor, Junior High School, 3 story, brick. $200,000.

O., Dayton—SCHOOL—Mar. 8, by Bd. Educ., C. J. Schmidt, clk.-treas., 307 Ludlow Bldg., Wilbur Wright Junior High and Elementary School, 2 story, rein.-con. and brick, plain foundation, Huffman St. $300,000. Herman & Brown, 1129 Reibold Bldg., archts.

O., Ravenna—CHURCH—Feb. 18, by W. Jansen, archt., 1227 Prospect Ave., Cleveland, for Immaculate Conception Church. 1 story, 62 x 118 ft., brick and stone, $150,000. Noted June 11.

Mich., Detroit—MEDICAL COLLEGE—Feb. 19, by C. A. Gadd, pres. Bd. Educ., 1354 Bway. Ave., (1st unit) 6 story and basement, 65 x 116 ft., rein.-con. and brick, plain foundation, Mullet and St. Antoine Sts. $375,000. Donaldson & Meier, 1310 Penobscot Bldg., archts.

Mich., Detroit—SCHOOL—Feb. 23, by C. A. Gadd, bus. mgr. Bd. Educ., 1354 Bway., 2 story and basement, rein.-con., brick and steel, plain foundation, Martin St. and McGraw Ave., $800,000. Malcolmson & Higginbotham, 1217 Griswold St., archts.

Ill., Chicago—SCHOOL—Feb. 23, by Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., Dr. Walter S. Christopher School for Crippled Children, 1 story and basement, 210 x 210 ft., brick and terra cotta, West 51st St. and South Artesian Ave. $500,000. J. C. Christensen, 650 South Clark St., archt.

Wis., Watertown — HOME — Bethesda Lutheran Home for Feeble Minded and Epileptic, L. Pingel, supt., plans 3 story and basement, brick and concrete, plain foundation. $160,000. Engineer and architect not selected.

Minn., Minneapolis—SCHOOL—Feb. 19, by Bd. Educ., C. F. Womrath, bus. mgr., 305 City Hall, (2nd unit) 3 story and basement, rein.-con., brick and stone addition, 14th St. and Spruce Pl. $150,000. Bureau of Buildings, Div. of Design & Inspection, c/o owner, archts. Noted Dec. 10.

Calif., Los Angeles—SCHOOLS—Feb. 17, by Bd. Educ., 2 story, 115 x 233 ft., fireproof, 17th and Georgia Sts., Train & Williams, Western Mutual Life Bldg., archts.; and part 2 and 3 story, brick and stucco, Griffin Ave., G. S. Underwood, 720 South Los Angeles St., archt. Noted Dec. 17.

Calif., San Francisco—SCHOOL—Feb. 24, by Bd. Pub. Wks., general contract Edison School, fireproof, Dolores St. between 22nd and 23rd Sts. $279,000. J. Reid, Jr., city archt.

BIDS RECEIVED

Pa., Phila.—HIGH SCHOOL—J. D. Cassell, supt. buildings, 19th and Chestnut Sts., Junior High School, 4 story and basement, 159 x 268 ft., brick and concrete, plain foundation, 66th and Elmwood Sts., general contract, from Cramp & Co., Denckla Bldg., $1,028,307; plumbing and heating, from S. Faith & Co., 2427 Penn. Ave., $46,864 and $93,993 respectively; and electrical work, from E. F. Goldhahn, 8619 Crothers St., $63,552, for Bd. Educ.

Pa., Phila.—HIGH SCHOOL—J. D. Cassell, supt. buildings, Feb. 2, Junior High School, 4 story and basement, 159 x 268 ft., rein.-con. and brick, plain foundation, 26th and Cumberland Sts., general contract, from Cramp & Co., Denckla Bldg., $1,011,956; plumbing, from L. J. Sommer & Son, 2436 Brown St., $45,934; electrical work, from E. F. Goldhahn, 8619 Crothers St., $61,738; and heating, from S. Faith & Co., 2427 Penn. Ave., $93,993, for Bd. Educ. Noted Jan. 28.

Minn., Minneapolis—BOTANY—State Bd. Administration & Finance, Capitol Bldg., St. Paul, general contract 3 story and basement, rein.-con., brick and stone, at University, here, from Madsen Constr. Co., 527 2nd Ave. S. $170,600. Noted Jan. 21.

CONTRACTS AWARDED

Mass., Somerville (br. Boston)—DORMITORY—Tufts College, Medford Hillside, 3 story, brick and steel dormitory, to J. Driscoll & Son Co., 94 Washington St., Brookline. Archts. est. $200,000.

N. J., Totowa (mail Paterson)—DORMITORIES — B. G. Lewis, comr., at office Division Architecture & Construction, 643 Broad St., Newark, general contract group 25 buildings, incl. dormitories, recreation, administration, etc., at Training School for Feeble Minded Females, here, for State Bd. Institutions & Agencies, Trenton, to C. J. Smith Constr. Co., 204 Academy St., Trenton, $1,173,834; plumbing, to G. J. Tobin, 187 North Ave., Plainfield, $99,997; heating, to J. H. Cooney, Harrison, $73,800; and electrical work, to Hoffman & Elias, 26 West 51st St., New York City, N. Y., $66,900. Grand total $1,414,531. Noted Jan. 23.

Ind., Indianapolis — CHEMICAL LABORATORY—Swan-Myers Co., R. M. Cain, pres., 219 North Senate Ave., general contract 4 story, 66 x 128 ft., brick, steel and rein.-con., 215 North Senate St., to Cornell Eng. Co., 2611 Cornell Ave. Archts. est. $150,000. Noted Jan. 7.

Mich., Ferndale (br. Detroit)—SCHOOLS—Bd. Educ., general contract Roosevelt School, 2 story and basement, 12 room, concrete, brick and stone, to M. B. Hungerford, Pontiac, $80,094; Wilson School, 1 story, 7 room, brick and steel, to F. R. Patterson Constr. Co., 2631 Woodward Ave., Detroit, $47,406; and Forest Grove School, 1 story addition, brick and concrete, to C. F. Erb, Pontiac, $40,400. Grand total $167,900.

Mich., Jackson—HIGH SCHOOL—Bd. Educ., J. F. Clark, secy., 16 West Wesley St., general contract 3 story and basement, rein.-con., brick and steel, plain foundation, Wildwood and Winthrop Sts., to H. G. Chrissman Co., Porter Apts., Lansing. Noted Dec. 31.

Ind., Richmond — SCHOOL — Bd. City Trustees, general contract brick, steel and rein.-con., to R. C. Bryant, Franklin, $164,000.

Tex., Wichita Falls—HIGH SCHOOL—Bd. Educ., c/o W. W. Brown, secy., Junior High School, 3 story, 104 x 137 ft., rein.-con., brick and stone, Polk and Taylor Sts., Aves. G. and H., to J. H. Reddick, Abilene, $144,300. Noted Jan. 14.

Okla., Tulsa — CHURCH — First Baptist Church, 4th and Cincinnati Sts., O. W. Anderson, pastor, 1 story, balcony and mezzanine, 90 x 140 ft., 2,250 seating capacity, rein.-con., brick and steel, 4th and South Cincinnati Sts., to Rucks & Brandt, Mid-Continent Bldg., $202,900. Archts. est. $250,000.

Federal Government Work

PROPOSED WORK

D. C., Wash.—Medical School—Dept. of Interior, takes bids about Mar. 1, medical school at Howard University. $370,000.

La., Reserve—Dock—Inland Waterways Corp., 321 Custom House Bldg., New Orleans, making revised plans pile and timber dock, on Mississippi River, here.

BIDS DESIRED

D. C., Wash.—Cable, Transformers, etc. —Feb. 19, at office A. L. Flint, genl. purch. officer, Panama Canal, supplies listed in Circular 1721, incl. cable transformers, etc.

Ga., Macon—Mailing Shelter—Feb. 26, by Treas. Dept., at office Supervising Archt., Wash., D. C., mailing shelter at U. S. Post Office, here; adv. E. N.-R. Feb. 11.

Ky., Louisville — Cement — Mar. 9, by U. S. Engineers Office, P. O. Box 72, approximately 110,000 bbl. portland cement; adv. E. N.-R. Feb. 11.

CONTRACTS AWARDED

D. C., Wash. — Bridge — Arlington Memorial Bridge Comn., C. O. Sherrill, executive officer, Navy Bldg., 6 piers and 4 abutments for Arlington Memorial Bridge over Potomac River, cofferdam construction, to H. P. Converse, 161 Devonshire St., Boston, Mass., $1,299,000 (550 days). Noted Jan. 14.

Ala., Mobile—Water Pipe—Treas. Dept., at office Supervising Archt., Wash., D. C., submarine water pipe and electric cables for proposed Quarantine Station, Sand Island, near here, from Virginia Eng. Co., Newport News, Va., $15,887. Noted Jan. 28.

Ala., Tuskegee — Recreation — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., 52 x 132 ft., brick, at U. S. Veterans Hospital, here, to Batson-Cook Co., West Point, Ga., $54,070 (10 months). Noted Feb. 4.

Ky., Louisville—Lime—U. S. Engineer Office, Box 72, 1,180 tons hydrated lime for Dams 45, 46, 50, 52, 53, in Ohio River, to Natl. Mortar & Supply Co., Federal Reserve Bldg., Pittsburgh, Pa., $14,035. Noted Dec. 31.

See proposal advertisements on page 130, Advertising Section.

Unclassified

PROPOSED WORK

Elimination Grade Crossing — Chatham, N. Y.—Bureau Highways, Albany, making plans bridging, grading, etc., for elimination of grade crossing at New York Central R.R. tracks, here. $700,000. A. W. Brandt, Albany, comr. highways.

Power Line — North Carolina — Neuse River Electric Co., New Bern, T. A. Frantham, pres., plans extending lines to Ft. Barnwell and Dover, also line to Vanceboro and one into Pamlico Co. $25,000.

Gas Mains, etc.—Gadsden, Ala.—Southern Gas & Power Co. making surveys improving gas plant, also lines to adjoining cities and towns. To exceed $25,000. Sanderson & Porter Co., 52 William St., New York City, engrs.

Swimming Pool—Brownswells (mail Wesson), **Miss.**—Brownswells Hotel Co. having plans prepared by S. Stone, Jr., & Co., 714 Union St., New Orleans, La., 50 x 150 ft. concrete swimming pool, incl. dressing rooms, etc.

Tank and Sprinkler—Hattiesburg, Miss.—Bd. Directors Hattiesburg Compress Co., F. L. Matthews, pres., plans plant addition, incl. 100,000 gal. steel tank and standard automatic sprinkler.

Sand and Gravel Plant—Nashville, Tenn.—C. M. Hughes & Co., 826 3rd Ave. N., plans new sand and gravel plant, also E. W. Cooper, engrs., 509 Dietrick St., in market for conveyors, screens, crushers, etc.

Swimming Pool — Cleveland Heights (Warrensville P. O.), **O.**—City, H. H. Canfield, city mgr., having plans prepared by A. D. Taylor, 4614 Prospect Ave., Cleveland, 1 story, concrete swimming pool, Mayfield Rd. $75,000.

Animal Husbandry—Wooster, O.—Dept. Welfare, 9th and Oak Sts., rejected bids Jan. 13, 3 story, 38 x 100 ft., fireproof animal husbandry building. Will readvertise. Noted Dec. 31 under "Buildings—Industrial."

Swimming Pool — Sheboygan, Wis. — Sheboygan Aerie F. O. E., c/o W. Keil, pres., 2037 North 8th St., plans rein.-con. swimming pool and lockers in basement of clubhouse. Engineer not selected. Noted Jan. 28 under "Buildings—Commercial."

Power Plant—East Grand Forks, Minn.—Otter Tail Power Co., C. S. Kennedy, genl. mgr., Fergus Falls, takes bids about Apr. 1, installing power plant incl. two 2,000 hp. units. $400,000. G. W. Welch, Fergus Falls, engr. Noted Dec. 31.

Street Lighting System — Minneapolis, Minn.—Bd. Park Comrs., C. E. Doell, secy., City Hall, making plans new park lighting system. $215,000. A. E. Berthe, City Hall, engr.

Transmission Line—Texas—West Texas Utilities Co., Abilene and San Angelo, making plans high power transmission line from San Angelo to Carlsbad, Mullen and Seven Mile Bridge. $200,000. Private plans.

Gas System — Duncan, Okla. — Voted $250,000 bonds, natural gas system, securing supply 18 mi. from city, 33 mi. 2- to 8-in. steel pipe, etc. Z. Z. Rogers, Duncan, engr. Noted Jan. 21.

Hydro-Electric Development — Seattle, Wash. — City Light Dept., filed application with R. K. Tiffany, supervisor hydraulics for reservoir permit and water rights for $11,000,000 expansion Skagit River hydro-electric project, incl. dam 350 ft. high, 800 ft. long on top and 100 ft. long on bottom, spanning Diablo Canyon, also reservoir impounding 90,000 acre ft. and submerging 700 acres 100 to 320 ft. deep, cost. $3,000,000.

Rock Crushing Plant—Chico, Calif.—J. E. Johnston, Stockton Savings & Loan Bank Bldg., Stockton, plans rock crushing plant on 340 acre site, several miles south of here. $125,000.

Stadium—Fresno, Calif.—Plans election $50,000 bonds, stadium on 10 acre site, Blackstone Ave.

Subway — Fresno, Calif. — Fresno Co. made plans concrete paving and constructing concrete subway under tracks of Atchison, Topeka & Santa Fe R.R. To exceed $60,000. A. Segel, Griffith-McKenzie Bldg., engr.

Swimming Pool—Los Angeles, Calif.—See "Buildings—Commercial."

Memorial — Ottawa, Ont. — Dept. Pub. Wks., Ottawa, soon takes bids National War Memorial, Connaught Pl. $150,000. R. S. Wright, Ottawa, engr.

Subway—Toronto, Ont.—City plans reconstructing subway, under Canadian Natl. Ry. tracks, at Carlaw Ave. and Gerrard St. $312,000. R. C. Harris, City Hall, engr.

BIDS DESIRED

Platform Extensions—Brooklyn, N. Y.—Feb. 25, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, extending station platforms of the Bway.-4th Ave. Rapid Transit R.R., Group 4, here.

Sand and Stone Hopper—Newark, N. J.—Feb. 13, at office T. L. Raymond, dir. Dept. Pub. Affairs, City Hall, steel lined sand and stone hopper, at city asphalt plant, Passaic St. and Passaic River.

Silo and Shop—Detroit, Mich.—Feb. 17, by Dept. Pub. Wks., 1 story, 37 x 37 ft., rein.-con. silo and shop addition to asphalt plant, Western Yard. P. A. Fellows, City Hall, engr.

Culverts—Atlantic, Ia.—Feb. 16, by J. M. Ward, aud. Cass Co., 8 circular and 7 box concrete culverts. G. F. Cannon, Atlantic, engr.

Fish Hatchery — Tyler, Tex. — T. E. Hubby, game, fish and oyster comr., Austin, taking bids fish hatchery, incl. 2,000 ft. mains, valves, septic tank, one 12,000 gal. corrugated galvanized iron water tank, 150 ft. storm sewer, bridge over channel from Greenbrier Lake, etc., here. $25,000. J. J. White, Tyler, engr.

BIDS RECEIVED

Subway—New York, N. Y.—Bd. Transportation, J. A. Delaney, chn., 49 Lafayette St., Feb. 5, subway Route 78, Sect. 8, along and under Fort Washington Ave., from S. B. Mason, 7 West 60th St., **(A1)** $1,976,190 **(A2)** $1,977,780 **(B1)** $1,967,641 and **(B2)** $1,969,231. Noted Jan. 7.

Grade Separation—Michigan—State Hy. Dept., at office comrs. Monroe Co., Monroe, Dec. 18, Grade Separation 5,804,003, under Detroit & Ironton R.R. tracks, from Closser Bros., 8427 Senator Ave., Detroit, $73,988.

CONTRACTS AWARDED

Foundations—West Hartford (br. Hartford), **Conn.**—St. Thomas the Apostle, J. F. Calahan, pastor, foundations for 1 story and basement, 65 x 170 ft., brick and steel church, Farmington Ave., to H. Wales Lines, 134 State St., Meriden, $99,347. Noted Dec. 31 under "Buildings—Educational, Religious."

Refrigerating Plant—New York, N. Y.—Bd. Trustees, Bellevue & Allied Hospitals, J. J. McGrath, chn. at office, Genl. Medical Supt., 415 East 26th St., refrigerating plant, etc., in power plant of Bellevue Hospital, foot East 29th St., to Shipley Constr. & Supply Co., 42nd St. and 2nd Ave., Brooklyn. Noted Jan. 28.

Swimming Pool—Yonkers, N. Y.—Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, rein.-con. swimming pool, at Tibbetts Brook Park, here, Contr. 78 and 79, to Schuten & Van Damburg, 139 East 21st St., New York City, $83,989. Noted Jan. 21.

Scales Building—Altoona, Pa.—Pennsylvania R.R. Co., Broad St. Sta., Phila., general contract 2 story, 35 x 80 ft. scales building, here, to T. J. Foley Co., 424 4th Ave., Pittsburgh. Engrs. est. $150,000.

Coliseum—Coral Gables, Fla.—Coliseum Corp., J. K. Dorn, pres., Coral Gables, brick, steel and stone coliseum, plain foundation, 7,000 seating capacity, to Thompson-Starrett Co., 250 Park Ave., New York City, N. Y. Archts. est. $1,000,000.

Coal Trestle — Milwaukee, Wis. — Milwaukee-Western Fuel Co., 120 Wisconsin St., timber coal trestle, to Klug & Smith, 69 Wisconsin St. Engrs. est. $35,000.

Police and Fire Alarm Systems—Milwaukee, Wis.—Central Bd. Purchases, J. W. Nicholson, ch. buyer, 75 combination police and fire alarm posts, to Fire & Police Alarm Post Co., 550 Maryland Ave., $9,975. Noted Jan. 14.

Materials

PROPOSED WORK

Road Oil — Minneapolis, Minn. — A. P. Erickson, aud. Hennepin Co., plans to purchase 250,000 gal. road oil. J. W. Shaffer, Court House, co. surv.

Cast Iron Pipe—Blackwell, Okla.—See "Waterworks."

BIDS DESIRED

Sand Grit—New York N. Y.—Feb. 17, by J. Miller, pres. Manhattan Boro, Municipal Bldg., 3,000 cu.yd. sand grit, and 3,000 cu. yd. concrete and paving sand. Former bids rejected. Noted Feb. 4.

Creosoted Ties—Phila., Pa.—Mar. 2, by H. E. Ehlers, dir. Dept. City Transit, 1211 Chestnut St., approximately 1,735,000 ft. mostly southern yellow pine creosoted ties; adv. E. N.-R. Feb. 11.

Cement—Detroit, Mich.—Feb. 11, by W. J. Black, comr. Purchases & Supplies, Marquette Bldg., 20,000 tons more or less asphaltic cement, to Dept. Pub. Wks., f.o.b. Detroit.

Pig Lead—Chicago, Ill.—Feb. 18, by City, Room 406, City Hall, 100 tons pig lead at various pipe yards. A. A. Sprague, comr.

Pipe—North Dakota—Feb. 23, by State Hy. Dept., Pierre, 1,040 lin.ft. 15 in., 26,417½ lin.ft. 18 in., 8,877½ lin.ft. 24 in., 2,915 lin.ft. 30 in. and 235 lin.ft. 36 in. rein.-con. pipe for approximately 400 mi. highway construction.

Wires—Hamilton, Ont.—W. L. McFaul, city engr., in market 50,000 conduit high tension wires.

BIDS RECEIVED

Sand Grit—New York, N. Y.—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., Feb. 4, 10,000 cu.yd. sand grit, from Ames Building Material Co., 3437 Kingsbridge Rd., $16,300. Noted Jan. 28.

Paving Blocks, etc.—Milwaukee, Wis.—Central Bd. Purchases, Feb. 1, 7,000 more or less sq.yd. creosoted paving blocks, 16 lb. treatment, from E. J. Stocking Co., 111 Washington Ave., Chicago, Ill., at $2.09 per sq.yd. Noted Jan. 28.

Paving Materials—Minneapolis, Minn.—F. S. Gram, city purch. agt., Jan. 25, 50,000 bbl. Portland cement, from Landers-Morrison-Christensen Co., 800 Builders Exch., $2.42 per bbl. on cars with 10 cents cash discount; 4,000,000 paving bricks, from Purington Paving Brick Co., 133 West Washington St., Chicago, Ill., $39.70 per M; 2,000 tons asphaltic cement, from Standard Oil Co. of Indiana, 1937 South East 4th St., $21.70 per ton; 300 tons paving pitch and 50,000 gal. refined tar, from Barrett Co., 1 19th Ave. S., $23.02 per ton, and $0.1145 per gal. respectviely; 16,000 tons traprock, from Trap Rock Co., Dresser Junction, Wis., ¾ in. $1.25, and ⅝ in. $2.25. Noted Jan. 21.

CONTRACTS AWARDED

Course Aggregate, etc.—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., 4,000 cu.yd. course aggregate, to Calvin Tompkins Co., 30 Church St., $8,560; 600 tons asphaltic joint filler, to Standard Oil Co. of New York, 26 Bway., $12,936, 20,000 bags Portland cement, to P. Solomone, 1358 Brook Ave., $13,900; 50,000 five in. granite paving blocks, to J. Meehan, 90 West St., $6,725; 4,000 tons inorganic dust, to E. Meyer & Co., 25 Church St., $18,880; and iron castings to Corporation Yards, to Campbell Fdry. Co., 313 Manor Ave., Harrison, N. J., $2,824. Grand total $63,825. Noted Feb. 4.

Tarvia — Detroit, Mich. — Dept. Street Railways, St. Jean and Shoemaker Aves., 300,000 gal. Tarvia X, and 25,000 gal. Tarvia A, to Barrett Co., Zug Island Rd., at $0.155 per gal., total $50,375.

Portland Cement — Milwaukee, Wis. — Central Bd. Purchases, 20,000 more or less bbl. Portland cement, to Forrer Lime, Cement & Coal Co., foot Humboldt Ave., at $2.64 per bbl.

Cement—Minnesota—State Hy. Dept., St. Paul, 274,230 bbl. cement, to Universal Portland Cement Co., 836 Security Bldg., Minneapolis; 101,420 bbl., to Lehigh Portland Cement Co., Mason City, Ia.; 56,630 bbl., to Northwest States Portland Cement Co., Mason City, Ia.; 37,360 bbl., to Cutler-Magner Co., 1114 Fidelity Bldg., Duluth; and 30,290 bbl., to Interstate Lumber Co., Stillwater. Approximately $1.80 per bbl. plus freight for delivery at various points. Noted Jan. 14.

Sewer Pipe—Minneapolis, Minn.—F. S. Gram, city purch. agt., various sizes vitr. sewer pipe, to Landers-Morrison-Christenson Co., 800 Builders Exch. Noted Jan. 7.

See proposal advertisements on page 130, Advertising Section.

Entering an Era of Railway Prosperity—

ON EVERY HAND the evidence is clear that the railways of the United States have entered into an era of prosperity unparalleled since the days of the World War. Estimates of capital expenditures during the current year range from three-quarters of a billion to almost a billion dollars.

The spending of this vast sum will be in the hands of the men who will attend the convention of the American Railway Engineering Association in Chicago next month and who will look to the ANNUAL RAILWAY NUMBER of *Engineering News-Record,* Feb. 25, for authoritative and timely information regarding the methods, the equipment, and the materials they will need in carrying on the year's program.

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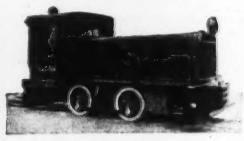
February 18th

Positive gear drive. Four speeds in either direction. Sizes built, 3½ to 25 tons in weight.
Write for catalogue

It's gear driven!
No chains or sprockets ANYWHERE to get out of order. Big power and a saving in maintenance and fuel alone which pays for the initial cost. In sizes up to 30 tons.
Get the latest Gasoline Locomotive Bulletin



Vulcan Iron Works
Wilkes-Barre, Pa.

GL-I

VULCAN WILKES-BARRE
GASOLINE LOCOMOTIVE

PLYMOUTH
Gasoline Locomotives
Predominate in general construction work, quarries, sand, gravel and clay pits, mines, and industrial plant haulage. Made in 3 to 20 ton sizes and any track gauge. Always ready, no coal to haul, no licensed engineer. Write for catalogs.
THE FATE-ROOT-HEATH CO.
Plymouth, Ohio

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HILLBURN NEW YORK
NIAGARA FALLS, N.Y.
CHICAGO, ILLINOIS
EAST ST. LOUIS, ILL.
PUEBLO, COLORADO
SUPERIOR, WISCONSIN
NIAGARA FALLS, ONT. CANADA

Ramapo Ajax Corporation
RAILWAY TRACK MATERIAL
Switch Stands, Frogs, Switches, Crossings, Guard Rails, Clamps, &c. for steam, mine and industrial railway tracks
MANGANESE WORK A SPECIALTY
SALES OFFICES AT ALL WORKS
Main Office, HILLBURN, N.Y.

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A Complete Line of the Highest Grade Track Materials
SWEETS STEEL CO

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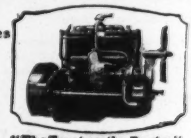


"The Trustworthy Engine"
CLIMAX ENGINEERING CO., 3 W. 18th Ave., CLINTON, IOWA.

CONSTRUCTION NEWS

Engineering News-Record, Feb. 18, 1926

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Apartment, Chicago, Ill., J. Hunt making plans for 16 story building, $5,000,000.

Hotel, Chicago, Ill., Plotke & Groeby plan 25 story building, $5,000,000.

Power plant, Venice, Ill., Illinois Power & Light Corp. plan addition, $5,000,000.

Hospital, Pittsburgh, Pa., Allegheney General Hospital having plans prepared, $5,000,000.

Office, Boston, Mass., Blackall, Cass and Whittemore preparing plans, $2,500,000.

Pumping station, Eagle Pass, Tex., Maverich Co. having surveys made, $2,000,000.

Hotel and office, Gulfport, Miss., Odd Fellows Lodge having plans prepared, $1,500,000.

Theatre and Hotel, Ft. Worth, Tex., J. Jones having plans prepared, $1,500,000.

Depot, Texarkana, Ark., Missouri-Pacific R.R. Co., et al having preliminary plans prepared, $1,300,000.

Insurance Exchange, Pittsburgh, Pa., Pittsburgh Insurance Exchange having plans prepared, $1,250,000.

Bids Wanted On Big Jobs

College, Philadelphia, Pa., Feb. 27, St. Joseph's College, $1,500,000.

Channel, St. Louis, Mo., City soon takes bids, $1,265,000.

Continuation school, Milwaukee, Wis., Mar. 1, Bd. Industrial Educ., $1,000,000.

Hospital, Chicago, Ill., Mar. 15, Alpine Hospital, $1,000,000.

Bank, Albany, N. Y., Home Savings Bank soon takes bids, $1,000,000.

Large Contracts Let During Week

Office and store, Chicago, Ill., A. S. Alchuler, archt., to Paschen Bros., $4,500,000.

Factory, Port Ivory, N. Y., Proctor and Gamble to J. W. Ferguson, $3,000,000.

Sewage Disposal Plant, Akron, O., to Walsh Constr. Co., $2,561,586.

Kamper Building, Detroit, Mich., to O. Misch Co., $2,500,000.

Cement mill, Powderly, Ala., Phoenix Portland Cement Corp., $2,500,000.

Garage, Boston, Mass., Y. D. Yard Service Garages, Inc., by day labor, $2,250,000.

PROPOSALS

For Proposals Advertised
see pages 120-125
Advertising Section

Bids Close		See Eng. News-Record
	WATERWORKS	
Feb. 19	Long Island City, N. Y.	Feb. 11
Feb. 19	Wash., D. C.	Feb. 18
Feb. 23	Muskegon, Mich.	Feb. 18
Feb. 23	Nashville, Tenn.	Feb. 18
Feb. 23	Phila., Pa.	Feb. 18
Feb. 24	Willard, N. Y.	Jan. 21
Feb. 25	Potsdam, N. Y.	Feb. 4
Feb. 26	Dunkirk, N. Y.	Feb. 11
Mar. 1	Wenatchee, Wash.	Feb. 4
Mar. 2	Winona, Miss.	Feb. 18
Mar. 2	Baraboo, Wis.	Feb. 18
Mar. 2	Terra Bella, Calif.	Feb. 18
Mar. 3	Greenville, Tex.	Feb. 4
Mar. 4	McMinnville, Tenn.	Feb. 18
Mar. 15	Crane, Mo.	Feb. 18
Mar. 26	East Paterson, N. J. Adv. Feb. 18.	Feb. 18
	SEWERS	
Feb. 23	Two Rivers, Wis.	Feb. 18
Feb. 23	Chicago, Ill.	Feb. 18
Feb. 23	Toronto, Ont.	Feb. 18
Feb. 23	Corpus Christi, Tex.	Feb. 18
Feb. 24	University (St. Louis P. O.), Mo.	Feb. 18
Feb. 24	Cleveland, O.	Feb. 18
Feb. 24	South Euclid (Cleveland P. O.), O.	Feb. 18
Feb. 24	Phila., Pa.	Feb. 18
Feb. 26	Marshfield, Wis.	Feb. 18
Feb. 26	Louisville, Ky.	Feb. 4
Mar. 1	Clayton, Mo.	Jan. 28
Mar. 2	Jacksonville Beach, Fla. Adv. Feb. 4 to 18.	Feb. 4
Mar. 2	Waco, Tex.	Feb. 11
Mar. 2	Dickson, Tenn.	Feb. 18
Mar. 10	Waco, Tex.	Jan. 7
Mar. 15	Waco, Tex.	Jan. 21
Mar. 16	West Palm Beach, Fla. Adv. Feb. 18.	Feb. 18
	BRIDGES	
Feb. 19	Dayton, O	Feb. 4
Feb. 20	Racine, Wis.	Feb. 11
Feb. 23	Denison, Ia.	Feb. 18
Mar. 1	California	Feb. 18
Mar. 1	Key West, Fla.	Jan. 21
Mar. 3	Phila., Pa. Adv. Feb. 18.	Feb. 18
Mar. 3	Mercer, Pa. Adv. Feb. 18.	Feb. 18
Mar. 9	Louisiana	Feb. 18
Mar. 16	South Carolina	Feb. 18
Mar. 18	Laverne, Okla.	Feb. 11
	DAMS	
Mar. 15	Los Angeles, Calif.	Jan. 28
Mar. 23	Wellington, New Zealand	Jan. 21
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES RIVER AND HARBOR	
Feb. 25	Greenwood, Miss.	Feb. 18
Mar. 3	New York Adv. Feb. 18.	Feb. 18
	STREETS AND ROADS	
Feb. 19	Pennsylvania	Jan. 14
Feb. 19	Hartford City, Ind.	Feb. 4
Feb. 19	Ohio	Feb. 11
Feb. 19	Phila., Pa.	Feb. 18
Feb. 20	Pennsylvania	Jan. 14
Feb. 20	Mason, Mich.	Feb. 18
Feb. 22	Ontario	Jan. 28
Feb. 23	St. Charles, Ill.	Feb. 18
Feb. 23	Seattle, Wash.	Feb. 11
Feb. 23	Carroll, Ia.	Feb. 11
Feb. 23	McPherson, Kan.	Jan. 28
Feb. 23	Louisiana	Jan. 28
Feb. 23	Peekskill, N. Y. Adv. Feb. 4 to 18.	Feb. 4
Feb. 23	Louisiana	Feb. 4
Feb. 23	Hamburg, N. Y.	Feb. 11
Feb. 23	Greensburg, Pa.	Feb. 11
Feb. 23	Los Angeles, Calif.	Feb. 11
Feb. 23	East Orange, N. J.	Feb. 18
Feb. 23	La Belle, Fla.	Feb. 18
Feb. 24	Nebraska	Feb. 4
Feb. 24	Two Rivers, Wis.	Feb. 18
Feb. 24	Walnut Creek, Calif.	Feb. 18
Feb. 24	Cleveland, O.	Feb. 18
Feb. 24	Hanford, Calif.	Feb. 18
Feb. 25	Kenosha, Wis.	Jan. 14
Feb. 25	Nebraska	Feb. 4
Feb. 25	Quitman, Miss.	Feb. 18
Feb. 25	Greepfield, Ind.	Feb. 18
Feb. 26	Kittanning, Pa.	Jan. 28
Feb. 26	Nebraska	Feb. 4
Feb. 26	Ottumwa, Ia.	Feb. 18
Feb. 27	Napoleonville, La.	Feb. 18
Feb. 27	Waxahachie, Tex.	Feb. 18
Feb. 28	Indiana	Feb. 4
Mar. 1	Pensacola, Fla.	Feb. 11
Mar. 1	Selma, Ala.	Feb. 11
Mar. 1	Birmingham, Ala.	Feb. 11
Mar. 1	Ebensburg, Pa.	Feb. 11
Mar. 1	Akron, O.	Feb. 18
Mar. 1	Martinez, Calif.	Feb. 18
Mar. 1	New Jersey Adv. Feb. 11 and 18.	Feb. 18
Mar. 1	San Diego, Calif.	Feb. 18
Mar. 1	Oroville, Calif.	Feb. 18
Mar. 2	Williamson, W. Va.	Feb. 18
Mar. 2	St. Louis, Mo.	Feb. 11
Mar. 2	Florida Adv. Feb. 11 and 18.	Feb. 11
Mar. 2	Pennsylvania Adv. Feb. 4 to 18.	Feb. 4
Mar. 2	Louisiana	Feb. 4
Mar. 2	Chilton, Wis.	Jan. 28
Mar. 2	Bedford, Ind.	Feb. 18
Mar. 2	Anderson, Ind.	Feb. 18
Mar. 2	South Carolina	Feb. 18
Mar. 2	Asbury Park, N. J.	Feb. 18
Mar. 2	North Dakota Adv. Feb. 18.	Feb. 18
Mar. 3	Camden, N. J. Adv. Feb. 18.	Feb. 18
Mar. 3	North Dakota Adv. Feb. 18.	Feb. 18
Mar. 3	Linden, Tex.	Feb. 18
Mar. 3	Anderson, Tex.	Feb. 18
Mar. 3	New Jersey Adv. Feb. 18.	Feb. 18
Mar. 4	Boston, Tex.	Feb. 18
Mar. 4	North Dakota Adv. Feb. 18.	Feb. 18
Mar. 4	Corning, N. Y. Adv. Feb. 18.	Feb. 18
Mar. 4	Carthage, Tex.	Feb. 18
Mar. 5	North Dakota Adv. Feb. 18.	Feb. 18
Mar. 8	Dickinson, N. D.	Feb. 11
Mar. 8	Muskegon, Mich.	Feb. 18
Mar. 8	Indianapolis, Ind.	Feb. 18
Mar. 8	California	Feb. 18
Mar. 9	North Dakota Adv. Feb. 18.	Feb. 18
Mar. 9	Rosedale, Miss.	Feb. 18
Mar. 10	Alabama	Feb. 11
Mar. 10	Birmingham, Ala.	Feb. 18
Mar. 10	Wash., D. C. Adv. Feb. 18.	Feb. 18
Mar. 10	Delaware Adv. Feb. 18.	Feb. 18
Mar. 16	Louisiana	Feb. 18
Mar. 25	Florida Adv. Feb. 18.	Feb. 18
	BUILDINGS—INDUSTRIAL	
Feb. 23	Wilson, Pa.	Feb. 18
Feb. 23	Phila., Pa.	Feb. 18
Feb. 23	Memphis, Tenn.	Feb. 18
Feb. 29	Phila., Pa.	Feb. 18
Mar. 1	Chicago, Ill.	Jan. 14
	BUILDINGS—COMMERCIAL	
Feb. 20	Vincennes, Ind.	Feb. 18
Feb. 23	Morehead City, N. C.	Feb. 11
Feb. 27	Bettendorf, Ia.	Feb. 4
Feb. 27	Davenport, Ia.	Feb. 18
Mar. 1	Duluth, Minn.	Jan. 7
Mar. 1	Pensacola, Fla.	Feb. 11
Mar. 1	Williamsport, Pa.	Feb. 4
Mar. 1	Royal Oak (Ind. br. Detroit), Mich.	Feb. 18
Mar. 2	Columbus, O.	Feb. 11
Mar. 3	Newark, N. J.	Feb. 11
Mar. 15	Altoona, Pa.	Feb. 11
Mar. 15	Muncie, Ind.	Feb. 18
Apr. 1	Lakewood (br. Cleveland), O.	Feb. 11
Apr. 1	Moline, Ill.	Jan. 14
Apr. 1	Youngstown, O.	Dec. 31

See proposal advertisements on page 120, Advertising Section.

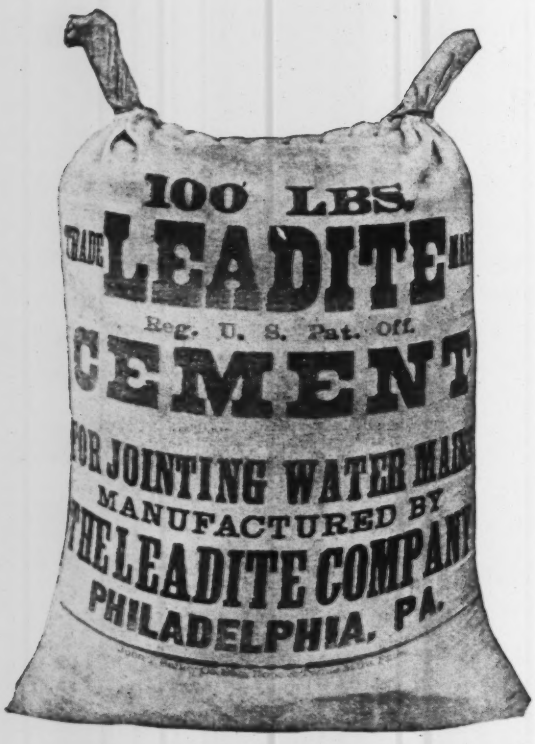
TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

A list of the Country's principal cities, large and small—

Is a list of the satisfied users of LEADITE.

Leadite Users are Leadite Boosters



EAST or West, North or South, take your pick of the cities—and you'll find many of them on the customer list of Leadite—

The country's principal cities, large and small—the country's representative water works engineers, construction companies and water works departments of industrial plants, railroads and mines are strong for Leadite for jointing cast iron water mains—

Are demonstrating what you will be able to do when you use Leadite—

What, for instance?—

You will do away with the need for caulking—or the need for digging out for large bell holes.

You will be able to use Leadite for all sizes of pipe from 4 in. to 60 in. diameter—under all pressures and conditions—

Give Leadite a trial.

Leadite resists electrolysis.

Leadite does not corrode or rust.

Leadite has been successfully tested and used for over 30 years.

Thousands of miles of pipe jointed with Leadite are in service.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1511 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids Close — See Eng. News-Record

BUILDINGS—EDUCATIONAL, RELIGIOUS

Feb. 19 Wash., D. C. .....Feb. 11
Feb. 19 Paulsboro, N. J. .....Feb. 4
Feb. 22 Ferndale (br. Detroit), Mich. .....Jan. 21
Feb. 22 Enid, Okla. .....Feb. 18
Feb. 22 Phila., Pa. .....Feb. 18
Feb. 23 St. Louis, Mo. .....Feb. 18
Feb. 23 Moylan, Pa. .....Feb. 18
Feb. 23 Waterbury, Conn. .....Feb. 18
Feb. 23 Ft. Worth, Tex. .....Feb. 18
Feb. 23 Beloit, Wis. .....Jan. 28
Feb. 23 Marshfield, Wis. .....Feb. 4
Feb. 23 Detroit, Mich. .....Feb. 11
Feb. 23 Chicago, Ill. .....Feb. 11
Feb. 24 Laurel, Miss. .....Feb. 11
Feb. 24 San Francisco, Calif. ....Feb. 11
Feb. 24 Williamsport, Pa. .....Jan. 7
Feb. 24 Laurel, Miss. .....Feb. 18
Feb. 25 Omaha, Neb. .....Feb. 18
Feb. 25 Erie, Pa. .....Feb. 18
Feb. 26 Quincy (Ind. br. Boston), Mass. .....Feb. 18
Feb. 27 Phila., Pa. .....Feb. 18
Feb. 27 Duluth, Minn. .....Dec. 17
Mar. 1 Milwaukee, Wis. .....Feb. 18
Mar. 1 Newberry, Mich. .....Jan. 28
Mar. 1 Melvindale (Dearborn P. O., R. F. D. 2), Mich. .....Feb. 18
Mar. 1 Walpole, Mass. .....Feb. 18
Mar. 3 Baton Rouge, La. .....Jan. 21
Mar. 3 Olympia, Wash. .....Feb. 18
Mar. 4 West Haverstraw, N. Y....Jan. 21
Adv. Feb. 18.
Mar. 4 Daytona, Fla. .....Feb. 18
Mar. 8 Maplewood (br. South Orange), N. J. .....Feb. 18
Adv. Feb. 18.
Mar. 8 Dayton, O. .....Feb. 11
Mar. 15 Lewistown, Pa. .....Jan. 21

FEDERAL GOVERNMENT WORK

Feb. 19 Mezzanine—Cincinnati, O...Feb. 4
Feb. 19 Cable, Transformer, etc. — Wash., D. C. .....Feb. 11
Feb. 23 Valves, etc.—Nebraska and Wyoming .....Jan. 28
Feb. 23 Remodeling — Brownsville, Tex. .....Jan. 28
Feb. 23 Remodeling—Evanston, Ill. .....Feb. 4
Feb. 24 Administration—Pearl Harbor, T. H. .....Jan. 7
Feb. 24 Water Meter, etc.—San Diego, Calif. .....Jan. 28
Feb. 24 Pipe Masts—Panama, C. Z.Feb. 4
Feb. 25 Remodeling—Hutchinson, Kan. .....Feb. 4
Feb. 26 Dredging — New York, N. Y. .....Jan. 28
Adv. Jan. 28 to Feb. 18.
Feb. 26 Mailing Shelter—Macon, Ga. .....Feb. 11
Feb. 26 Tunnel, etc.—Phila., Pa....Feb. 18
Adv. Feb. 18.
Mar. 1 Steel Work—Phila., Pa...Feb. 18
Adv. Feb. 18.
Mar. 1 Cruiser—Wash., D. C. ....Dec. 31
Mar. 1 Elevator—Wash., D. C....Feb. 4
Adv. Feb. 4 to 18.
Mar. 2 Water Tanks—Palo Alto, Calif. .....Feb. 4
Mar. 3 Hospital—Mare Island, Calif. .....Jan. 21
Mar. 3 Compass Station—Cape Lookout (mail Beaufort), N. C..Feb. 4
Mar. 3 Remodeling—Erie, Pa.....Feb. 18
Mar. 3 Dredging—South Boston (sta. Boston), Mass. .....Feb. 18
Mar. 8 Post Office—Jackson, Mich..Feb. 18
Adv. Feb. 18.
Mar. 9 Outlet Pipes—Oregon .....Feb. 4
Mar. 9 Cement—Louisville, Ky....Feb. 11
Adv. Feb. 11 and 18.
Mar. 10 Post Office—Terre Haute, Ind. .....Feb. 18
Mar. 15 Breakwater—Hilo, T. H....Jan. 21
Adv. Jan. 21 to Feb. 18.
Mar. 15 Dam—Louisville, Ky.....Feb. 18
Adv. Feb. 18.
Mar. 17 Dredging—Toledo, O. .....Feb. 18

UNCLASSIFIED

Feb. 19 Timber Flume, etc.—Brooklyn, N. Y. .....Feb. 18
Feb. 24 Sanitary Work, etc.—Willard, N. Y. .....Feb. 4
Adv. Jan. 21 to Feb. 18.
Feb. 25 Brooklyn, N. Y. .....Feb. 11
Feb. 26 Subway—New York City, N. Y. .....Feb. 18
Feb. 26 Culvert—Cleveland, O.....Feb. 18
Mar. 1 Lighting System—New York City, N. Y. .....Feb. 18
Mar. 2 Grand Stand—Sacramento, Calif. .....Feb. 18

Bids Close — See Eng. News-Record

Mar. 18 Lighting System—Gouverneur, N. Y. .....Feb. 18
Adv. Feb. 18.
Mar. 23 Panels, Filters, etc.—Wellington, N. Z. .....Jan. 21

MATERIALS

Feb. 19 Stone and Cement, etc. — Cleveland, O. .....Feb. 18
Feb. 20 Railroad Crossing, Frogs, etc. —Newark, N. J. .....Feb. 18
Feb. 23 Pipe—North Dakota .....Feb. 11
Feb. 23 Road Oil, etc.—Two Rivers, Wis. .....Feb. 18
Feb. 23 Asphalt, etc.—Ottawa, Ont..Feb. 18
Feb. 23 Stone—Newark, N. J.....Feb. 18
Feb. 23 Pig Lead—Phila., Pa.....Feb. 18
Feb. 24 Asphalt, etc.—Ontario.....Feb. 4
Feb. 24 Asphalt, Cement, etc. — Hamilton, Ont. .....Feb. 18
Adv. Feb. 11 and 18.
Feb. 24 Asphaltic Cement, etc. — St. George, N. Y. .....Feb. 18
Mar. 2 Gravel—Logansport, La....Feb. 18
Mar. 2 Creosoted Ties—Phila., Pa.Feb. 11
Adv. Feb. 11 and 18.
Mar. 3 Crushed Stone, etc.—Freehold, N. J. .....Feb. 18
Adv. Feb. 18.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Conn., Norwalk — Plans several water system improvements and extensions, incl. main pipes, tanks and reservoir. $400,000. E. F. Bracker, city engr. N. Hill, Jr., 112 East 19th St., New York City, consult. engr.

N. J., Clinton—G. B. Smith, mayor and City Council plan municipal water plant. $100,000. Engineer not selected.

Pa., Phila.—Phila. Suburban Water Co., Fox Bldg., making plans 1 story, 68 x 154 ft., brick and steel filter and pumping station, also 1,500 ft. rein.-con. dam, 40 ft. high, in Phoenixville. Private plans.

N. C., Monroe—Takes bids about Mar. 8, 2 m.g. filtration plant, 2 mi. c.i. pipe and earth dam. Carolina Eng. Co., 919 Johnson Bldg., Charlotte, engrs. Noted Dec. 17.

Ga., Montezuma—Election Feb. 24, $18,000 bonds, waterworks improvements.

Miss., Gulfport—Plans additional reservoir, etc. G. Odom, street comr.

O., Batavia — Plans filtration plant. $25,000.

O., Columbus—Made plans 15,260 ft. 2- to 8-in. wrought iron mains in Truro Twp. 4, Impvt. 46, $29,000; 16, 870 ft. 6- to 16-in. c.i. mains in Truro Twp. 1, Impvt. 47, $64,000. E. G. Bradbury, 406 Court House Annex, co. engr.

O., Conneaut—Plans new filtration plant. $200,000.

O., Corning—Plans improving water supply. $25,000.

O., Fostoria—Plans expending $175,000 purifying drinking water.

O., New Richmond — Plans improving water supply. $25,000.

O., New Richmond — Plans expending $25,000 purifying drinking water.

O., Painesville—Plans improving filtration plant, etc. $200,000.

O., Salineville—Plans improving water supply. $25,000.

Wis., North Milwaukee—Making plans 15 blocks c.i. mains in 10 streets. To exceed $15,000. H. C. Webster, 216 West Water St., Milwaukee, engr.

Minn., Hills—Plans waterworks. $30,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, Ia., engrs.

N. D., Jamestown—Election Apr. 6, $90,000 bonds, filtration plant.

Mo., Forsyth — Plans election bonds to exceed $15,000, new waterworks.

Tex., Carrollton — Voted $40,000 bonds, complete waterworks. Municipal Eng. Co., 602 Praetorian Bldg., Dallas, engrs.

Tex., Lufkin—Making plans 2 mi. mains in various streets. $18,000. Address C. N. Humason, mayor.

Tex., West — City purchased plant of West Water Co., and plans improvements. Address Mayor.

Calif., Palo Alto—Plans election $25,000 or more bonds extending mains in North Palo Alto and Mayfield Dists. J. F. Byxbee, Jr., city engr.

Ont., Toronto—City Council plans 12,000 ft. 16 and 20 in. c.i. mains from High Level Pumping Station to Moore Park Area. $152,562. R. C. Harris, City Hall, engr.

Ont., Toronto—York Twp. plans 10,000 ft. 6 in. c.i. distribution mains in Humbercrest Blvd., Longmuir Crescent, Cataract St., Scott and Times Rds., Ossington, Porter, Woodbine, Schell, Halford and Waller Aves. $25,000. F. B. Goedike, 49 Jarvis St., engr.

Ont., Toronto — City Council plans reconstructing waterworks, incl. mains, distribution pipes, etc., on Toronto Island. $229,160. R. C. Harris, City Hall, engr.

BIDS DESIRED

N. J., East Paterson—Mar. 26, by Mayor and Boro Council, Gilbert Ave. School, water supply system. H. J. Harder, 129 Market St., Paterson, engr.; adv. E. N.-R. Feb. 18. Noted Dec. 10.

Pa., Phila.—Feb. 23, by Dept. Pub. Wks., City Hall, electrical pumping equipment, Contr. 797, also switch boards, wiring and electrical equipment, Contr. 798, for Torresdale Pumping Station. G. H. Biles, dir.

D. C., Wash.—Feb. 19, at office Washington Suburban Sanitary Comn., Evans Bldg., New York Ave., 116,000 ft. 6- to 16-in. and 3,000 ft. 20 in. c.i. pipe Contrs. 56-W and 57-W. R. B. Morse, Hyattsville, Md., ch. engr. Dist. of Columbia.

Miss., Winona—Mar. 2, by J. Q. Staples, mayor, and Bd. Aldermen, at mayor's office, one 1,000 gal. combination electric motor and gasoline engine driven fire pump with equipment, one 750 gal. motor driven fire pump, and one 325 gal. motor driven service pump. W. F. Blackstone, city clk.

Tenn., McMinnville—Mar. 4, by City, J. T. Johnson, mayor, Contr. 1, 6 centrifugal pumps and electric motors; Contr. 2, filtration plant and equipment; Contr. 3, concrete work, installing pumps, mains, etc.; Contr. 4, tank on tower. Klyce & Harrub, 4th & 1st Natl. Bank Bldg., Nashville, engrs.

Tenn., Nashville—Feb. 23, by City, 1,000 water meters and couplings. H. E. Howse, mayor. Noted Jan. 21.

Mich., Muskegon — Feb. 23 (extended date), by I. L. Christiansen, city clk., 6 cars 6 in. vitr. pipe, 50 manhole and 50 catch basin castings, miscellaneous fittings, etc. $5,300. H. J. Lewis, City Hall, engr.

Wis., Baraboo—Mar. 2, by S. H. Wood, city clk., 1 single acting triplex plunger pump, not less than 450 g.p.m., against 260 ft. head. H. E. French, City Hall, engr.

Mo., Crane — Mar. 15, by City, pumping equipment, concrete storage reservoir, etc. Noted Dec. 31.

Calif., Terra Bella—Mar. 2, by Directors Terra Bella Irrigation Dist., E. R. Clemens, secy., drilling 2 wells, each 500 ft. deep, 14 in. diam., and 1,000 ft. 14 in. double No. 12 perforated and plain well casing.

BIDS RECEIVED

O., Cincinnati—For 10 tons 6 in., 5 tons 8 in., 45 tons 10 in., 55 tons 12 in., 135 tons 16 in., 250 tons 20 in., 275 tons 24 in., 360 tons 30 in., and 175 tons 36 in. c.i. pipe for mains in Central Parkway from 8th and Eggleston Sts., to Findlay St., from U. S. Cast Iron Pipe Co., Addyston, $67,211, engrs. est. $70,000; 16- to 30-in. vertical and horizontal by-pass valves to water distribution system, from Michigan Valve & Fdry. Co., 3631 Parkinson St., Detroit, Mich., $12,235, engrs. est. $13,000. Noted Jan. 28.

O., Cincinnati — Comrs. Hamilton Co., 3,400 ft. 16 in. c.i. mains, etc., in Water Supply Line 7, Dist. 1 (Silverton-Contr. 1), from Crumley, Jones & Crumley, 906 Main St., $20,206. Engrs. est. $22,698. Noted Jan. 21.

Mo., St. Louis—C. J. Dietz, supply comr., City Hall, Feb. 4, from U. S. Cast Iron Pipe & Fdry. Co., Bessemer, Ala., 1,260 tons 20 in. and 800 tons 36 in. pipe at $45.40 per ton, total $93,524, and from Natl. Cast Iron Pipe Co., 2700 North 24th St., Birmingham, Ala., 30 tons 3 in. c.i. pipe $56, 50 tons 4 in. $50, 675 tons 6 in. $46, 20 tons 8 in. $46, and 440 tons 12 in. $46, total $56,390, all above for Water Dept. Noted Jan. 28.

CONTRACTS AWARDED

Conn., New Haven—New Haven Water Co., concrete dams, dykes, rein.-con. main dam and earthern dam, in North Branford (mail Branford), to C. W. Blakeslee & Sons, 58 Waverly St., New Haven. Engrs. est. $750,000.

Pa., Oakmont—See "Unclassified."

Mich., Detroit—Dept. Water Supply, 176 East Jefferson Ave., to Gamon Meter Co., 282 South St., Newark, N. J., one hundred 2 in. disc meters at $37.85; to Badger Meter Mfg. Co., 841 30th St., Milwaukee, Wis., two thousand ¾ in. disc meters $9.25, two hundred 1½ in. at $24.90, and thirty-six 3 in. compound at $120; to Buffalo Meter Co.,

See proposal advertisements on page 120, Advertising Section.

Quick-Hardening Concrete

***Strong* Concrete**

in *3 Days* with

Standard *Universal* Cement

Urgent needs in construction often demand that your work be rushed to completion and placed in service as soon as possible. In such cases, you do not want to wait the number of days usually allowed for concrete to reach the desired strength. You do not need to.

A copy of the circular shown above on how to obtain quick-hardening, *strong* concrete in *3 days* with standard *Universal* cement, the same quality *Universal* you have always used, will be mailed you on request to

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland New York

Concrete for Permanence

Waterworks (Continued)

2921 Main St., Buffalo, N. Y., six 4 in. discs, $158; and to Worthington Pump & Mchy. Corp., 115 Bway., New York City, six 6 in. disc meters $325. Noted Jan. 28.

Minn., Faribault — Approximately 7,000 lin.ft. c.i. pipe, 10 tons standard fittings, etc., to Amer. Cast Iron Pipe Co., 712 Plymouth Bldg., Minneapolis, approximately $7,000.

Kan., Humboldt — Filtration plant and Keystone filter equipment, to Fry Bros., Iola, $11,865. Noted Jan. 14.

Mo., Crane—W. C. Cope, city clk., 1,000 ft. well, to O. B. Chesser, Springfield, $3,375; 39 valves and boxes, also 30 fire hydrants, to Ludlow Valve Mfg. Co., foot of Adams St., Troy, N. Y., $2,165; one 60,000 gal. tank on tower, to Pittsburgh Des Moines Co., Tuttle and South West 10th Sts., Des Moines, Ia., $5,374; 33,344 ft. 2- to 8-in. c.i. pipe, to McWane Cast Iron Pipe Co., 27th Ave., N., Birmingham, Ala., $17,-623. Grand total $28,534. Noted Dec. 31.

Wash., Seattle—Bd. Pub. Wks., reconstructing mains in Federal Ave., to H. Argenteria, 1819 Weller St., $49,239. Engrs. est. $51,706. Noted Feb. 11.

Calif., Antioch—Pumping unit, pump to be single stage 1,400 g.p.m., head 200 ft., direct connected to 100 hp. motor, to Fairbanks-Morse Co., 651 Mission St., San Francisco, $4,117.

Calif., Santa Cruz—For 6,300 lin.ft. 12 in. DeLavaud c.i. pipe, to U. S. Cast Iron Pipe & Fdry. Co., Monadnock Bldg., San Francisco, $13,106. Noted Jan. 21.

Calif., Wasco — Director Wasco Pub. Utility Dist., 27,000 ft. 4- to 10-in. de Lavaud c.i. mains in various streets, to E. K. Angle, Dos Palos, $38,056. Noted Jan. 21.

Sewers

PROPOSED WORK

Conn., New Haven—Plans sewage disposal plant, East St. $600,000. E. S. Nettleton, city engr. Fuller & McClintock, 120 Bway., New York City, consult. engrs. Noted Oct. 29.

Pa., Chester — Dept. Streets & Pub. Impvts., takes bids in June (1st unit) intercepting sewerage system and disposal plant. $2,500,000. R. C. Wheeler, Chester, engr.

O., Brookville—Montgomery Co. (Dayton) plans sewerage system and disposal plant. $50,000.

O., Columbus—Made plans 25,025 ft. 6- to 39-in. sewers in Truro Twp. 1, Impvt. Dist. 59, $91,000; 5,500 ft. 8 in. sewers in Truro Twp. 1, Impvt. Dist. 73, $9,000; also 3 mi. 39- to 63-in. trunk sewer from Alum Creek disposal plant to U. S. Govt. warehouse and army post, $150,000. E. G. Bradbury, 406 Court House Annex, co. engr.

O., Dayton—See "Streets and Roads."

O., Jackson — Plans enlarging sewage treatment plant. $50,000.

O., Kenmore (br. Akron)—Plans sewers connecting with Akron system. $450,000.

O., New Lexington—Plans sewers and disposal plant. $150,000-$200,000.

Mich., Muskegon—I. R. Ellison, city mgr., City Hall, receiving plans sewage treatment plant, $600,000. H. J. Lewis, City Hall, engr.

Mich., Muskegon—E. R. Cockerill, supt. Drains Muskegon Co., R.R. 1, Montague, takes bids about Apr. 1, 1,500 ft. 6- to 60-in. rein.-con. and concrete, also 4,500 ft. 12- to 24-in. vitr. clay sewers in Ruddiman Creek Valley, East Branch. $45,000. M. M. Buck, Union Bank Bldg., engr.

Ill., Mound City — Making preliminary plans sewerage system. W. N. Moyers, 311 High St., head com. in charge. Engineer not selected.

Ill., Normal—Making surveys complete sanitary sewerage system. $85,000. G. O. Broyhill, Unity Bldg., Bloomington, engrs.

Wis., North Milwaukee — Making plans approximately concrete or vitr. sewers in 16 blocks various streets. To exceed $25,-000. H. C. Webster, 216 West Water St., Milwaukee, engr.

Mo., Moberly—Election Apr. 6, $75,000 bonds, sewage disposal plant.

Mo., St. Louis—Soon takes bids 1.5 mi. partially lined and open channel for Sect. C River Des Peres Sewer Project between north end Sect. B (now under construction) and point about 1,200 ft. east of Mackling Ave., etc. $1,265,000. W. W. Horner, 300 City Hall, engr. Noted Dec. 3.

Calif., El Cerrito—Made plans approximately 50,000 lin.ft. 6 in. vitr. sewers in Berkeley Country Club Terrace. R. L. Calfee, 221 South 22nd St., Richmond, engr.

Calif., Glendale—Made plans 49,782 ft. 8 in. vitr. sewers, 26,533 ft. house connections, etc., in Sewer Dist. 3. J. F. Johansen, city engr.

Calif., Glendale — Making plans sewer laterals in Dists. 6 and 7. To exceed $300,-000. J. F. Johannsen, city engr.

Calif., Palo Alto—Plans election to exceed $25,000 bonds, sewers in North Palo Alto and Mayfield Dists. J. F. Byxbee, Jr., city engr.

Calif., Santa Monica—Made plans sewerage system, 32,000 lin.ft. 24 in. c.i. force main, pumping station consisting two 4,000 g.p.m. centrifugal pumps, etc. $300,000 or more. H. B. Carter, city engr.

Calif., Yuba — City Trustees take bids about Mar. 10, 70,000 lin.ft. 6- to 16-in. sewers in various streets. E. von Geldern, city engr.

Ont., Toronto — York Twp. plans vitr. clay sewers in Kane Ave., $20,886; and Humbercrest Blvd., $12,981. Work involves 8,000 ft. 8 in. pipe. F. G. Goedike, 40 Jarvis St., engr.

Ont., Toronto—Plans additional rein.-con. detritus tanks at main sewage disposal plant. $145,000. R. C. Harris, City Hall, engr.

BIDS DESIRED

Pa., Phila. — Feb. 24, Dept. Pub. Wks., Bureau Engineering, Schedule "A"-branch sewers in various streets, Schedule "B" main sewers in Sanger St. and Aramingo Ave.; Schedule "C" South Philadelphia Improvement and Schedule "D" sewage disposal.

Fla., West Palm Beach — Mar. 16, by City Comn., sanitary and storm water sewers in Central Boro, and portion of South Boro, Sewer Dist. 11. T. B. Henry, city engr.; adv. E. N.-R. Feb. 18.

Tenn., Dickson—Mar. 2, by City, H. T. Miller, mayor, 3 disposal plants and 73,200 ft. 6- to 12-in. sewers, 240 manholes, etc. in various streets. To exceed $25,000. Klyce & Hanub, 4th & 1st Natl. Bank Bldg., Nashville, engrs. Noted Sept. 24.

O., Cleveland—Feb. 24, by City, sewers in Bradgate Ave. S. W., Brookfield Ave. S. W., Delora Ave. S. W., Elsienna Ave. S. W., Grimsby Ave. S. W., Caine Ave. S. E., Effie Rd. S. E., Quincy Ave. S. E., Greenway Rd. N. W., East 39th, 118th, 124th and 146th Sts. $100,000. R. Hoffman, City Hall, engr.

O., South Euclid (Cleveland P. O.)—Feb. 24, by Town, main storm and sanitary sewers in Plainfield Dist. 6. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Ill., Chicago—Feb. 23, by City, Room 406, City Hall, c.i. manholes and catch basin covers, inlet boxes, grates and bends at District Yards of Bureau Sewers, as required for term ending Dec. 31. A. A. Sprague, comr.

Wis., Marshfield — Feb. 26, by J. A. Schindler, city clk., 17,106 ft. 6- to 12-in. vitr. clay sewers, etc., in various streets. To exceed $25,000. A. Westenborg, City Hall, engr.

Wis., Two Rivers—Feb. 23, by R. Biehl, city mgr., approximately 10,000 ft. 6- to 27-in. vitr. sewer pipe.

Mo., University (St. Louis P. O.)—Feb. 24, by City Clerk, approximately 9,000 ft. 33 and 36 in. sewer in Sect. B, River Des Peres Public Sanitary Sewer. $75,000. W. A. Heimbeucher, City Hall, engr. Noted Jan. 29.

Tex., Corpus Christi — Feb. 23, by City, sewage disposal plant, 171,765 lin.ft. 6- to 24-in. vitr. tile outfall sewer, into Corpus Christi Bay. $250,000. J. B. Hawley, 403 Cotton Exch. Bldg., Ft. Worth, engr. Noted Feb. 11.

Calif., Richmond—A. C. Faris, city clk., taking bids 23,570 ft. 6- to 10-in. vitr. sewer, etc. in Dist. 1; 30,159 ft. 6- to 10-in. in Sect. 2; and 3,425 lin.ft. 6 in. in Sect. 3. E. A. Hoffman, city engr. Noted Nov. 19.

Calif., Sunnyvale — City Trustees taking bids 26,425 ft. 6- to 8-in. concrete sewers in various streets. $25,000 available. C. C. Kennedy, Call Bldg., San Francisco, city engr. Noted Oct. 22.

Ont., Toronto — Feb. 23, by T. Foster, mayor, City Hall, brick and concrete trunk sewers in 1,200 lin.ft. Yonge St. south of Lawrence Ave., and 338 lin.ft. in Nursewood Rd. south of Queen St. $50,000. R. C. Harris, City Hall, engr.

BIDS RECEIVED

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Feb. 9, temporary sanitary sewers in Hylan Blvd., Mill Rd., 6th St., Guyon and Adelaide Aves., in New Dorp, Oakwood and vicinity from J. Johnson Sons, 445 Bway., West New Brighton, **(a)** $68,535; and from Hammen Constr. Co., 279 Madison Ave., Perth Amboy, N. J., **(b)** $68,136. Noted Feb. 4.

Calif., Los Angeles — Constructing Sect. 2 Arroyo de la Sacatella storm drainage system, from W. F. Peck, 1120 North Las Palmas St., $764,765. Noted Jan. 28.

CONTRACTS AWARDED

O., Akron—W. F. Peters, dir. Pub. Serv., Municipal Bldg., sewage disposal plant, etc., to Walsh Constr. Co., 605 Kahl Bldg., Davenport, Ia., $2,561,586. Engrs. est. $3,000,000. Noted Feb. 4.

Mo., Macon — City Clerk, rebuilding Imhoff tank and constructing new sprinkler filter, etc., incl. 950 cu.yd. excav., 245 cu.yd. rein.-con., 1,050 cu.yd. crushed rock, 400 ft. 4- to 15-in. vitr. clay and 3,600 ft. 6 in. slotted split pipe, two 175 g.p.m. pumps and motors, etc., to R. W. Langston, Springfield, $17,450. Noted Dec. 12.

Mo., Sikeston—Approximately 12 mi. 8- to 15-in. sewers in various streets and 2 disposal plants, to Rowan & Rickard, Russellville, Ark., $79,100. Noted Jan. 7.

Ont., Toronto — York Twp., sewer in Gloucester Grove, Luke St. and Strathearn Rd., to J. Armstrong, 27 Alanson Ave., Hamilton, $13,933; Kersdale Ave., to Holdcroft Constr. Co., 746 Weston Rd., $2,291; Summit and Donald Aves., to Murphy Contg. Co. 8 Wychwood Park, $2,785 and $3,300 respectively; Livingston Ave., to W. E. Taylor, 22 Falcon Rd., $8,581. Grand total $30,890. Noted Jan. 28.

Ont., Toronto—York Twp., about 8,000 lin.ft. 8 in. vitr. tile sewers in Westmount and Rosecliffe Aves., to Holdcroft Constr. Co., 746 Weston Ave., $3,766, and Snider Ave., to J. Simpson, 227 Wychwood Ave., $6,288; drains in various streets, to Ruscica Bros., 84 Woodycrest Ave., $2,400, and to Mitchell Contg. Co., 55 Greenside Ave. $1,384, to Dept. Pub. Wks., by day labor, Bude, Welles and Guy Sts., $10,234, and St. Clair and Mould Aves., $4,620. Grand total $28,692. Noted Oct. 15.

Waste Disposal

PROPOSED WORK

N. Y., Troy—City Planning Comn. making surveys sewage disposal plant.

N. J., Highlands — Mayor and City Council, J. L. Sweeney, boro atty., plans 25 ton incinerator. $125,000.

La., New Orleans—Comn. Council making plans 165 ton and 55 ton capacity incinerators with equipment. $1,500,000. Noted Oct. 22.

Tex., Denison—Making preliminary plans incinerator plant. $60,000. H. Hayden, city engr.

Bridges

PROPOSED WORK

Ga., McRae—See "Streets and Roads."

Tennessee—State Dept. Highways & Pub. Wks., Nashville, take bids about Feb. 19, 5 rein.-con. bridges, each over 20 ft. span, Ellendale-Arlington Rd. on Memphis-Bristol Route, Shelby Co. To exceed $25,000. C. N. Bass, acting comr.

Tenn., Madisonville — Monroe Co. takes bids in spring rein.-con. bridge over Tennessee River, at McGhees Landing. $100,000.

Ind., Scottsburg—State Hy. Comn., State House, Indianapolis, plans two 150 ft. truss and two 84 ft. plate girder span bridge with 2 abutments and 3 piers over White River on State Road 1, here. $130,000. W. J. Titus, State House, Indianapolis, engr.

Ia., Grundy Center—Grundy Co. made plans 45 concrete bridges and culverts. $30,-000. E. R. Crary, Court House, engr.

Minn., Shakopee — Scott Co. made plans 780 ft. steel and concrete bridge, 27 ft. roadway, etc. over Minnesota River, at Holmer St. $100,000. State Hy. Dept., 1246 University Ave., St. Paul, engrs.

Mo., Joplin—City and State Hy. Dept., Jefferson City, making preliminary plans rein.-con. viaduct to carry state highway over railroad tracks. $225,000. City, State and railroads appropriate toward cost.

Ark., Batesville — Independence Co. and State Hy. Dept., Little Rock, take bids about April 1, rein.-con. and steel bridge over White River, here. $303,549. R. C. Limerick, highway engr. Noted July 16.

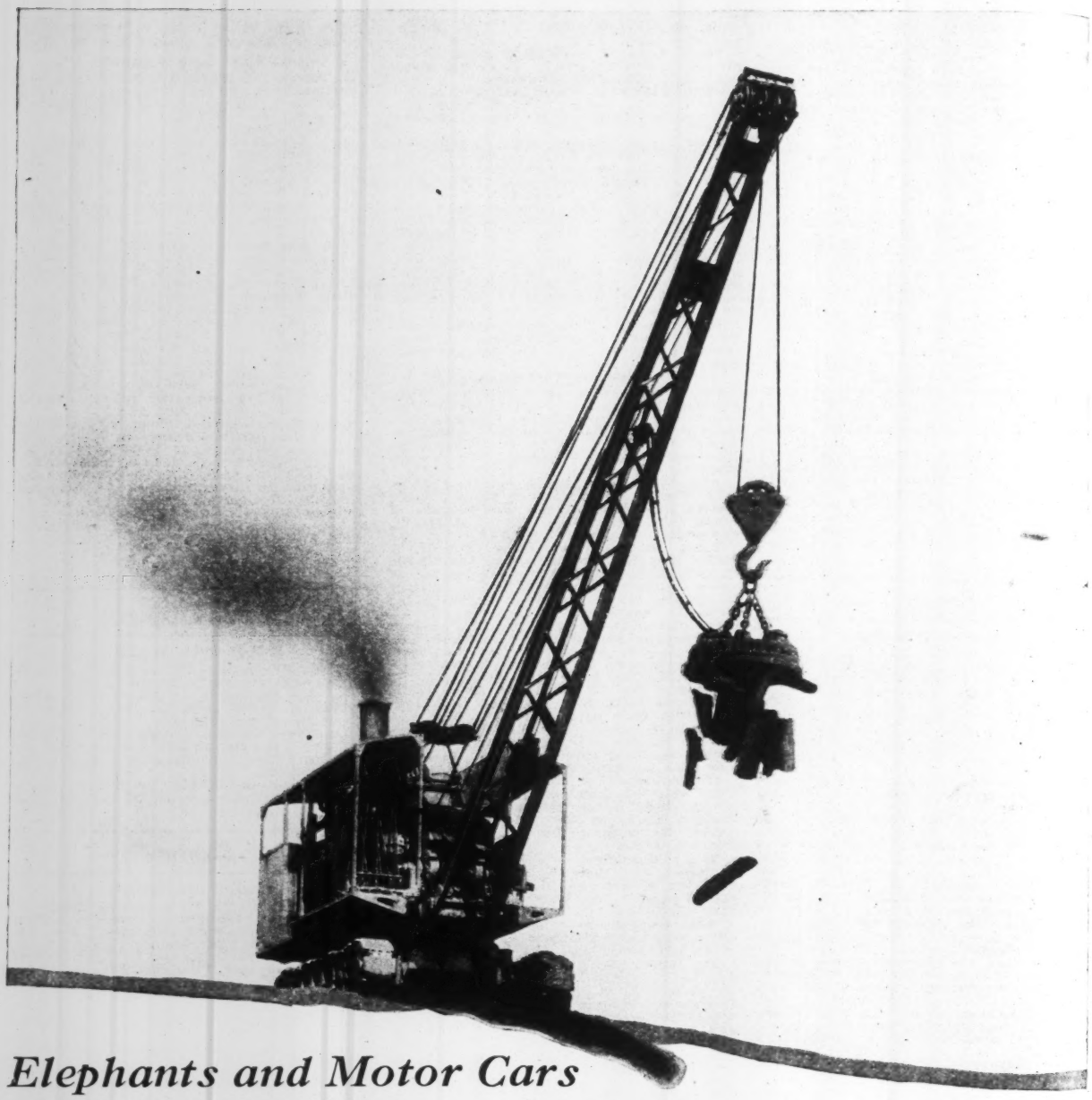
Tex., Angleton—See "Streets and Roads."

Tex., Brownsville — See "Streets and Roads."

Tex., Hidalgo—Southern Pacific Ry. Co., G. W. Boschke, ch. engr., 65 Market St., San Francisco, Calif., making preliminary plans 240 ft., steel and rein.-con. span bridge across Rio Grande River to Reynosa, here. $110,000. Private plans.

Tex., Huntsville — See "Streets and Roads."

See proposal advertisements on page 120, Advertising Section.



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Bridges (Continued)

Tex., Karnes City — See "Streets and Roads."

Tex., Quanah—See "Streets and Roads."

Okla., Pawnee — State Hy. Dept., Oklahoma City making preliminary plans 102 ft. steel truss bridge on concrete piers, Pawnee Co., here. $35,000. J. M. Page, highway engr.

Okla., Ponca City—City and Atchison, Topeka & Santa Fe R.R. Co., 80 East Jackson Blvd., Chicago, Ill., C. F. W. Felt, ch. engr., made preliminary plans viaduct over railroad tracks, at Grand Ave. $160,000. C. E. Morton, city clk.

Ont., London — Middlesex Co. making plans 2 concrete and steel highway bridges, on Hamilton Rd. $28,000. C. Talbot, County Bldg., London, engr.

Ont., Toronto—City Council plans replacing Winchester St. bridge with new 150 ft. concrete and steel bridge, 66 ft., on new site. $25,514. R. C. Harris, City Hall, engr.

Ont., Toronto—Plans 600 ft. steel and concrete bridge, 42 ft., over Rosedale Ravine, at North Glen Rd. $425,000. R. C. Harris, City Hall, engr.

BIDS DESIRED

Pa., Mercer—Mar. 8, by Comrs. Mercer Co., Bridge 610, French Creek Twp.; Bridges 2321 and 2327, Hickory Twp.; and Bridge 2634 Findley and E. Lackawannock Twps. F. P. Graham, Grove City, co. engr.; adv. E. N.-R. Feb. 18.

Pa., Phila.—Mar. 3, by Delaware River Bridge Joint Comn., Widener Bldg., G. Pinchot, chn., miscellaneous metalwork, Contr. 24, electrical equipment, Contr. 25, and wrapping cables, Contr. 26, all for bridge over Delaware River connecting cities of Phila. and Camden. J. K. Costello, secy.; adv. E. N.-R., Feb. 18.

Delaware—See "Streets and Roads."

Miss., Quitman—See "Streets and Roads."

Louisiana—Mar. 9, by State Hy. Comn., Baton Rouge, reconstructing and repairing bridge over Calcasieu River, on Lake Charles-West Lake Highway, State Project 461, Calcasieu Parish. W. B. Robert, Reymond Bldg., Baton Rouge, highway engr.

Ia., Denison — Feb. 23, by W. J. Weatmouth, engr., Denison, one 140 ft. truss and two 40 ft. I-beam span bridge, for Crawford Co.

Tex., Anderson—See "Streets and Roads."

Tex., Boston—See "Streets and Roads."

Tex., Carthage—See "Streets and Roads."

Tex., Linden—See "Streets and Roads."

Tex., Waxahachie — See "Streets and Roads."

California—Mar. 1, by State Hy. Dept., Sacramento, three 55 ft. span rein.-con. girder bridge on rein.-con. piers and abutments over Bear Creek at Briceburg, and 2 rein.-con. bridges, one over Slate Gulch, 3 mi. north of Briceburg, and one over Sweetwater Creek, about 4 mi. north of Briceburg, in Mariposa Co.; also 125 ft. open spandrel arch and nine 33 ft. girder approach spans rein.-con. bridge over Doney Creek, 1 mi. south of Antler, Shasta Co. R. M. Morton, Forum Bldg., Sacramento, highway engr.

BIDS RECEIVED

New Jersey—See "Streets and Roads."

North Carolina — State Hy. Dept., Raleigh, rein.-con. bridges, etc., on Project 303, Bladen Co., from J. S. Bowers, Whiteville, $27,718; Project 838, Henderson Co., from C. R. Willard & Son, Spartanburg, S. C., $25,435; on Project 664, Richmond Co., from Hobbs-Peabody Co., Charlotte, $25,752; on Project 635, Gaston Co., from P. S. Minus, Spartanburg, S. C., $102,641; on Project 479, Wake Co., from R. A. Loving Co., Goldsboro, $47,814; on Project 465, Person Co., and on Project 240, Johnston Co., from E. A. Wood & Co., Andrews, $26,052 and $115,002 respectively. Noted Feb. 4.

Missouri—State Hy. Dept., Jefferson City, Feb. 5, three 20 ft. rein.-con. slab spans, etc. over McDougal Branch, Newton Co. $4,140, from Kelly & Underwood, Granby, one 10 ft. rein.-con. slab span, etc. over stream $828 and one 60 ft. steel truss span, etc. over Robinson Creek, $7,443, both Vernon Co.; from J. P. Sparks, Kirkwood, two 8 ft. rein.-con. slab spans, etc. over stream, Wayne Co., $4,941 from D. C. Horton, Ft. Smith, Ark., two 10 ft. rein.-con. slab spans, etc. over stream, St. Clair Co., $1,436; from Stevens Bros., St. Paul, Minn., one 20 ft. rein.-con. slab span, etc. over West Dog Creek, Daviess Co., $7,530; from O. H. Schmidt, 3108 Jule St., St. Joseph, three 20 ft. rein.-con. slab spans, etc. over Turkey Creek, Linn Co. $4,647; from J. J. Bailey, St. Louis, three 20 ft., rein.-con. slab spans, etc. over Castor River, Bollinger Co., $4,016; from Independent Constr. Co., Pittsburg, Kan., two 10 ft. and two 12 ft. rein.-con. slab spans, etc. over stream, Vernon Co., $3,691; from H. Spitcaufsky, 3229 Victor St., Kansas City, four 20 ft., rein.-con. spab spans, etc. over Turkey Creek overflow $6,428, three 30 ft. rein.-con. deck girder spans, etc. over Elk Creek $6,525 and one 40 ft. rein.-con. deck girder span, etc. over Little Turkey Creek $5,613, all in Linn Co.; from Newton Constr. Co., Columbia, two 30 ft. rein.-con. deck girder spans, etc. over Panther Creek, St. Clair Co. $5,302, and one 40 ft. rein.-con. deck girder span, etc. over Mams Creek, Audrain Co., $4,806; from De Janett & Schrader, Sedalia, one 30 ft. rein.-con. deck girder span, etc. over Pipes Creek, Howard Co., $4,764; from K. McFarland, Kansas City, three 45 ft. rein.-con. deck girder spans, etc. over Sulphur Creek, Howard Co., $13,096; from M. E. Gillioz, Monett, two 8 ft. and one 20 ft. rein.-con. slab spans, etc. over stream $6,446, one 45 ft. rein.-con. deck girder spans, etc. over Turkey Creek $6,453, one 20 ft. rein.-con. slab span, etc. over Turkey Creek overflow $4,080, two 25 ft. rein.-con. deck girder spans, etc. over Fraziers Creek $5,516, one 30 ft. rein.-con. deck girder span, etc. over Wards Creek $3,605, one 40 ft. rein.-con. deck girder span, etc. over Bounds Creek $4,748, one 45 ft. and two 30 ft. rein.-con. deck girder spans, etc. over Bear Creek $7,824, all foregoing in Wayne Co.; from R. P. Harper Constr. Co., Chillicothe, twelve 10 ft. rein.-con. slab spans, etc. over stream $2,326, fifteen 20 ft. rein.-con. slab spans, etc. over Big Parsons overflow $17,772, three 20 ft. rein.-con. slab spans, etc. over Hickory Creek $4,792, three 30 ft. rein.-con. deck girder spans, etc. over Little Parsons Creek $6,184, three 30 ft. rein.-con. deck girder spans, etc. over Big Parsons Creek $6,226, four 20 ft. rein.-con. slab, two 80 ft. steel truss and twenty 20 ft. I-beam spans, etc. over Locust Creek overflow, $52,318, one 80 ft. steel and eighteen 20 ft. I-beam spans, etc. over Muddy Creek overflow $28,185, all foregoing in Linn Co.; from Vincennes Bridge Co., Vincennes, Ind., four 140 ft. steel truss spans, etc. over Castor River, Bollinger Co., $37,914; from Cook & Waddell, Ottawa, Kan., two 80 ft. steel truss spans, etc. over Clear Creek, Vernon Co., $20,936; from Finley Constr. Co., Nebraska City, Neb., one 86 ft. steel truss span, etc. over Contrary Creek, Buchanan Co. $9,904; and one 72 ft. timber pile trestle over Route 11, De Kalb Co., $1,035. Noted Jan. 28.

Okla., Davidson—State Hy. Dept., Oklahoma City, 280 span 5,423 ft. pile trestle bridge, Tillman Co., here, 358,720 ft. untreated and 56,200 ft. creosoted timber, 26,820 ft. wooden piling, etc., from Staley Bros., Wichita Falls, Tex., $95,110. Engrs. est. $125,000. Noted Jan. 1.

CONTRACTS AWARDED

N. Y., New York—Park Bd., F. D. Gallatin, pres., Arsenal Bldg., 64th St. and 5th Ave., concrete arch bridge and approaches, Boston Rd. and Bronx River, Bronx Boro, to Fox Reynolds Co., 81 East 125th St., $103,679. Noted Feb. 11.

Pennsylvania—Beaver Co. (Beaver), 4 river piers for bridge across Ohio River, between Ambridge and Woodlawn, to Dravo Contg. Co., Neville Island, Pittsburgh, $145,400. Engrs. est. $150,000. Noted Jan. 21.

South Carolina—State Hy. Dept. Columbia, treated timber bridge over South Edisto River, Federal Aid Project 212, Barnwell-Orangeburg Counties, to J. A. Peterson, Montgomery, Ala., $28,865; also con. substructure bridge over Catawba River, Federal Aid Project 269, Chester and Lancaster Counties, to J. S. Bowers, Whiteville, N. C., $101,796. Noted Nov. 5.

Georgia and South Carolina—State Hy. Dept., East Point, 4 bridges on Waynesboro-Swainsboro Rd., Federal Aid Project 387-B, Burke Co., to Howell Constr. Co., Marion Bldg., Augusta, $35,910; 3 bridges on Brunswick-Jacksonville Rd., State Aid Project 432-S, Camden Co., to G. S. Wright, Athens, $14,733; 11 span 1,433 ft. bridge over Savannah River between Elberton, Ga., and Calhoun Falls, S. C., Alberton Co., Ga., and Abbeville Co., S. C., to E. M. Williams, Monroe, Ga., $213,992, concrete culverts on Carnesville-Commerce Rd., Federal Aid Project 352-B, Banks Co., to M. R. Woodall, Inc., Walton Bldg., Atlanta, $8,096. Noted Jan. 21.

Mich., Detroit—Wayne Co. Road Comn., 1103 Real Estate Exch., fabricating and erecting steel framing for house, also stone and concrete for enclosure walls, double leaf bascule type bridge over River Rouge, at Dix Ave., to G. P. Cullen, Inc., 2940 West Lake St., Chicago, Ill., $66,206. Noted Feb. 4.

Kan., Hiawatha — See "Streets and Roads."

Tex., Houston—J. C. McVea, city engr., and Howe & Wise, consult. engrs., 816 1st Natl. Bank Bldg., rein.-con. bridge across Bray's Bayou, at Lawndale Ave., to B. H. Faber, Eagle Lake, for City and Harris Co. $48,392. Engrs. est. $60,000. Noted Dec. 17.

Oklahoma—State Hy. Dept., Oklahoma City, **(e. e. means engineers estimate)**, 34 span 560 ft. creosoted pile trestle bridge at Shattuck, Ellis Co. and 32 span 610 ft. pile trestle bridge at Edith, Harper Co., to L. Saunders, 619 West Main St., Oklahoma City, $27,490 and $29,238 respectively, e. e. $30,000 and $31,000 respectively; 3 span 144 ft. steel truss bridge on concrete piers at Comanche, and 3 span 250 ft. steel truss bridge on concrete piers at Duncan, both Stephens Co., to National Constr. Co., Lawton, $30,297 and $31,367 respectively, e. e. $34,700 and $35,000 respectively; 6 span 960 ft. steel truss bridge on concrete piers at Dover, Kingfiesher Co., to E. G. Fike & Co., Nebraska Bldg., Tulsa, $87,701, e. e. $100,000; 3 span 260 ft. steel truss bridge on concrete piers at Duncan, Stephens Co., to O. H. Pharoah, Okemah, $40,887, e. e. $47,000; 40 span 720 ft. pile trestle bridge at Waynoka, Major Co., to Woodward Constr. Co., Woodward, $31,843, e. e. $33,000. Grand total $278,823. Noted Jan. 21.

Idaho—Commissioner Pub. Wks., Pioneer Bldg., Lewiston, two 90 ft. steel span bridges, on North and South Highway, Federal Aid Project 9-E, Adams and Idaho Counties, to E. A. Webster, Hutton Bldg., Spokane, Wash., $30,391.

Calif., Santa Barbara — E. E. Haskell, city mgr., Feb. 4, 2 rein.-con. bridges, one over Mission Creek at Anapamu St., and other over Alisos Creek, at Quinientos St., to F. E. Marsh, 237 Bimini Pl., Los Angeles, $15,827 and $11,774 respectively.

Dams

PROPOSED WORK

Pa., Phila.—See "Waterworks."

N. C., Monroe—See "Waterworks."

CONTRACTS AWARDED

Conn., New Haven—See "Waterworks."

Railways

PROPOSED WORK

Nebraska—See "Buildings—Commercial."

California — State Bd. Harbor Comrs., Ferry Bldg., San Francisco, plans paving and railroad work from Pier 48 to Pier 54, in connection with State Belt R.R. on "The Embarcadero," in San Francisco. F. G. White, Ferry Bldg., San Francisco, ch. engr.

BIDS RECEIVED

California—City and San Francisco Co., San Francisco, constructing Sunset Line of railway system in Judah St. between 31st and 41st Aves., in San Francisco, from L. P. Brassy, Sharon Bldg., San Francisco, $30,766. Noted Feb. 4.

CONTRACTS AWARDED

California — City of San Francisco and San Francisco Co. (San Francisco) constructing Sunset Line of Railway system in Judah St. between 31st and 41st Aves., in San Francisco, to L. P. Brassy, Sharon Bldg., San Francisco, $30,766. Noted Feb. 4.

Excavation, Drainage, Irrigation, Levees River and Harbor

PROPOSED WORK

N. J., Asbury Park—City Comn. plans dredging Wesley Lake and constructing bulkheads. $40,000. C. Hetrick, mayor. Engineer not selected.

N. J., North Long Branch (Ind. br. Long Branch)—City Comn., Long Branch, plans breakwater jetties, here. $70,000. Engineer not selected.

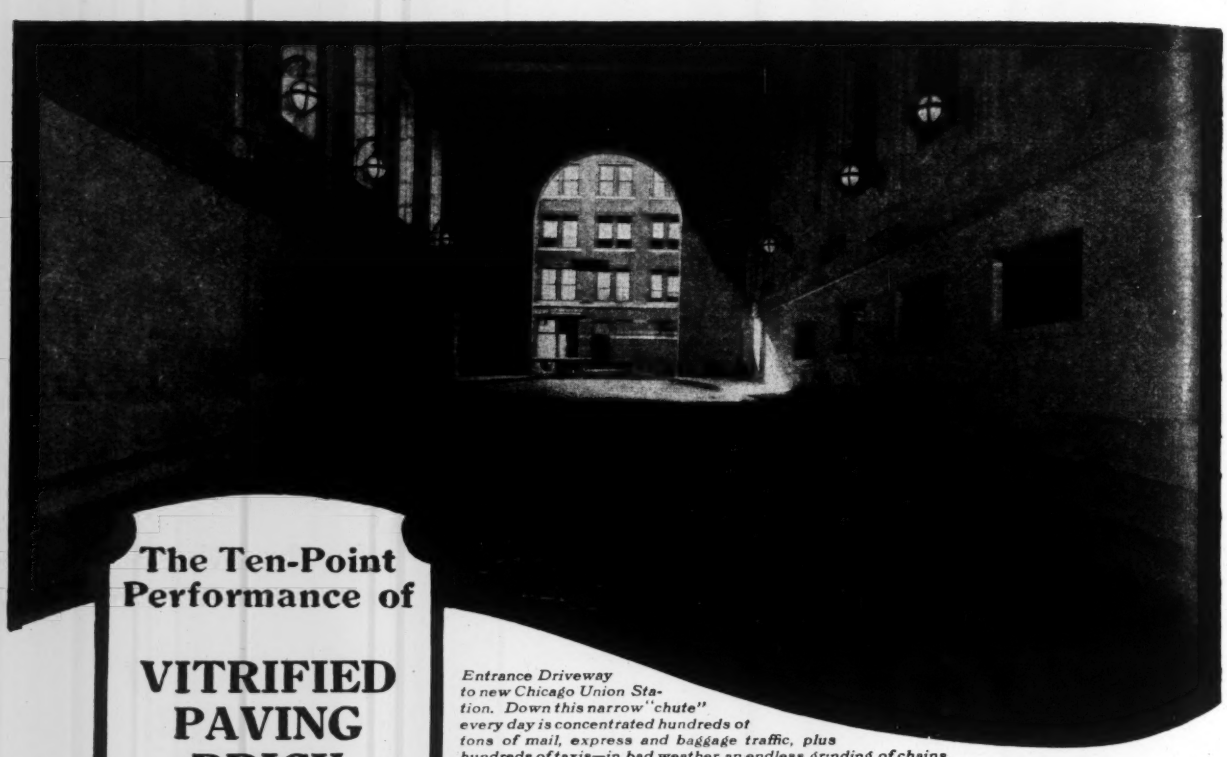
Fla., Leesburg — Plans filling in and dredging Lake Harris, **(a)** 449,210 cu.yd. dredging $0.16 per cu.yd. **(b)** 22,000 cu.yd. fill dikes $0.40, **(c)** 1,400 cu.yd. fill dikes $0.25. H. S. Jandon Eng. Co., Leesburg, engr.

Miss., Gulfport—See "Unclassified."

Ill., Mt. Prospect — Weller Creek D. D., Cook Co., takes bids about June 1, additions and extensions to drainage system. $350,000. E. A. Rossiter Co., 160 North La Salle St., Chicago, engrs.

Tex., Beaumont — D. D. 6, c/o Comrs. Jefferson Co., plans completing drainage system constructing 50 mi. in 33 small ditches leading in to main ditch. $78,745 available. Private plans.

See proposal advertisements on page 120, Advertising Section.



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Excavation, Drainage, Irrigation, Levees, River and Harbor (Cont.)

Tex., Brownsville—Cameron Co. Water Dist. 7 election soon $200,000 bonds, concrete lined canals and drainage. H. H. Banker, dist. mgr.

Tex., Eagle Pass—Maverick Co. Irrigation Dist., making preliminary surveys, etc. large lifting plant or pump on Rio Grande River, about 18 mi. above here, irrigating 30,000 acres. $2,000,000. Address Chamber of Commerce, Eagle Pass.

Neb., Omaha—Big Pappio Dist., Douglas Co. takes bids after Apr. 1, drainage ditch. $50,000. Towl, Nelson & Schwartz, Peters Trust Bldg., engrs.

Calif., Los Angeles—City Harbor Comn., appropriated $67,500, dredging end of slip in West Basin, and filling area north of Water St. between Canal St. and Fries Ave. F. G. W.

Calif., Modesto—Modesto Irrigation Dist. plans purchasing drainage pumps. $7,600 available. C. Abbott, Modesto, secy.

Calif., Oroville — Thermalito Irrigation Dist., plans election $50,000 bonds, to purchase 50,000 ft. 12- to 14-in. diam. slip joint riveted steel pipe. S. Norris, dist. engr.

Calif., San Francisco—State Bd. Harbor Comrs., Ferry Bldg., making plans Islais Reclamation Project, dredging channel 300 ft. wide to 30 ft. below mean low water, 25 acres filling, and construction 1,400 ft. timber bulkhead and wharf. $375,000. F. G. White, Ferry Bldg., ch. engr.

BIDS DESIRED

New York—Mar. 3, by Salt Water Bays Comn., R. G. Finch, chn., Journal Bldg., Plaza, Albany, timber bulkheads along north bank of Quoque Canal and at Quoque Bridge, also placing riprap stone at tide gates in Shinnecock Canal, Suffolk Co.; adv. E. N.-R. Feb. 18.

Miss., Greenwood — Feb. 25, by Comrs. Fighting Bayou D. D., Leflore Co., at office Abbott Eng. Co., engrs., Greenwood, 36 mi. drainage channel, 1,250,000 cu.yd. excav. and 260 acres clearing and grubbing.

CONTRACTS AWARDED

Ill., Mt. Prospect — Weller Creek D. D., farm drainage system, 42,600 ft. 6- to 22-in. D. S. Shale tile drain, etc., to Kruse Constr. Co., 1987 West 111th St., Chicago, $105,000. Noted July 30.

Ia., Oskaloosa—South Skunk River D. D. 6, Mahaska Co., c/o R. W. Varley, aud., 350,323 cu.yd. excav., to Barnard-Curtis Co., 506 Globe Bldg., Minneapolis, Minn., at $0.085 per cu.yd. Noted Feb. 4.

Streets and Roads

PROPOSED WORK

N. J., Manasquan—L. C. Riddle, mayor and City Council plans concrete paving 1 mi. road from town to beach. Engineer not selected.

N. J., Newton—Sussex Co. plans improving 1 mi. Mill St. and Swartswood Rd. $51,000. H. Snook, Newton, engr.

Pa., Pittsburgh — Plans repaving Center Ave. from Herron Ave. to Craig St. $69,000. Dept. Pub. Wks., City County Bldg., city engr.

W. Va., Lewisburg — Election Feb. 23, $30,000 bonds, improving Market and other streets. W. L. Tabscott, recdr.

W. Va., Parkersburg—Union Dist. plans election $60,000 bonds, roads in Wood Co. W. Shaver, Parkersburg, engr.

Ga., McRae—Telfair Co. election Mar. 10, $350,000 bonds, for roads and bridges.

Ga., Montezuma—Election Feb. 24, $32,000 bonds, improving various streets.

Fla., Ft. Myers—Lee Co. voted $360,000 bonds, paving and widening 15 mi. MacGregor Blvd. from city limits to Punta Rassa; $119,000 bonds, building cut to connect Tamiami Trail and MacGregor Blvd.; $73,000 bonds paving Iona Loop; and $48,000 bonds, building 2 mi. road to Estero Island from bridge to beach. Noted Dec. 31.

Fla., Leesburg—Plans grading, curbing, sidewalks and vitr. brick or equal paving various streets. $797,000. H. S. Jandon Eng. Co., Leesburg, engrs.

Mississippi — Lamar Co. (Purvis) and Forest Co. (Hattiesburg) soon take bids grading and gravel surfacing 8.2 mi. Federal Aid Project 69, 18 ft. $300,000. H. C. Dietzer, Jackson, engr.

Miss., Magnolia—Bd. Supervs. Magnolia Co. postponed opening bids Feb. 11, grading and brick paving 5,358 sq.yd. Federal Aid Project 95. H. C. Dietzer, Jackson, engr. Noted Jan. 28.

Miss., New Augusta—Perry Co. making preliminary plans grading and gravel surfacing 18 mi. New Athens-Jones Co. line Rd. Howarth & Watson, Hattiesburg, engrs.

La., Monroe — City Council soon takes bids asphalt on concrete paving 11 blocks various streets.

La., Plaguemine—Mayor and Bd. Aldermen plan paving, sub-surface drainage and sidewalks on various streets. $125,000. Swanson-McGraw, Inc., Balter Bldg., New Orleans, consult. engrs. Noted Feb. 11.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, made surveys improving 15 mi. Selmer-Chester Co. line Rd., McNairy Co. C. N. Bass, acting comr.

Tennessee — State Dept. Highways & Pub. Wks., Nashville, making surveys improving 12 mi. Tiptonville-Kentucky State line Rd., Lake Co., and 12 mi. Ashport-Ripley Rd., Lauderdale Co. C. N. Bass, acting comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about Mar. 5, probably bituminous macadam on crushed stone surfacing 10 mi. Springfield-Adair Rd., Robertson Co. C. N. Bass, acting comr.

Tenn., Clarksville—Plans paving North 2nd St. $25,000.

Tenn., Morristown—Hamblen Co. voted $43,000 bonds, improving Andrew Johnson Highway to Hawkins Co. line.

O., Cincinnati—Hamilton Co. plans grading and tar bound macadam paving 12,037 ft. Shawnee River Rd. from I. C. H. 46 to Drake Rd., $68,384; 9,506 ft. State Rd. from Clough to Nagel Rds., $39,835; 11,350 ft. Deerfield Rd. from Cornell to Cincinnati-Zanesville Rds., $48,810; 8,100 ft. Old Indian Hill Rd., $33,630; 4,612 ft. Livingston Rd. from Blue Rock to Poole Rds., $25,000; 7,144 ft. Linneman Rd. from Muddy Creek to Neeb Rds., $30,705; 12,713 ft. Muddy Creek Rd. from Bridgetown to Ebenezer Rds., $58,998; 5,850 ft. Creek Rd. from Plainfield to Madisonville Rds., $25,000; and 17,550 ft. Plainfield Rd. from Creek to Sycamore Rds., $72,894, all 16 ft. wide. E. A. Gast, Court House, engr.

O., Canton — Stark Co. takes bids in spring improving 1.5 mi. Osnaburg-Paris Rd., $60,000, and 4.1 mi. Gov. Cox Highway, $229,000, State Aid $40,000; brick paving 1.7 mi. Harrison Ave. extension, $60,500; extending 1.5 mi. Sherman Church extension, $85,000; graveling 2.82 mi. Brewster-Canal Fulton Rd., $51,471, all 16 ft. A. M. Wise, Court House, engr.

O., Carrollton—Carroll Co. takes bids in spring concrete or macadam paving 3.144 mi. Carrollton-New Philadelphia Rd., 16 ft. $155,000.

O., Columbus — Made plans grading, sewers and asphalt paving, etc., 1,927 ft. Indianola Ave., 34 ft. $38,000. R. H. Sampson, City Hall, engr.

O., Dayton — Plans curbing, sewers and vitr. brick or granite durax paving 14,200 sq.yd. Washington St. from Beach to Germantown Sts., $75,000; also resurfacing and repairing various streets and alleys, $50,000. J. F. Hale, city engr.

Ind., Munice—Delware Co. plans concrete paving 1½ mi. Nichols Ave. from University Ave., to Yorkstown Rd., 38 ft. $35,000.

Michigan — Muskegon Co. (Muskegon) takes bids about Mar. 15 concrete, asphalt or macadam paving 10.8 mi. Lake Shore Rd. from North Muskegon to Whitehall. $437,000. L. H. Nielsen, Courthouse, engr.

Mich., Detroit—Making plans 3½ in. sheet asphalt on 8 in. concrete paving, etc., 6,200 sq.yd. Center Line Ave., $28,160; 5,500 sq.yd. Wells Ave., $25,740; 1,500 sq.yd. Georgia Ave., $8,140; 4,200 sq.yd. Holmur Ave., $19,620; 4,100 sq.yd. Dexter Blvd., $18,130; 1,400 sq.yd. Hawthorne Ave., $7,150; and 5,500 sq.yd. Griggs Ave., $25,240. P. A. Fellows, City Hall, engr.

Ill. Decatur—Plans grading, curbing and brick on concrete paving 5 blocks East North St., 30 ft. $37,022. M. P. O'Brien, City Hall, engr.

Ill., East St. Louis—Soon takes bids grading, curbing and rein.-con. paving North 16th St. from Bway. to Baugh St. $98,100. W. McK. Brown, City Hall, engr.

Ill., Geneva — Making preliminary plans grading, curbing and hardsurfacing various streets north of State St. $150,000. Wells Eng. Co., Geneva, engr.

Ill., Granite City—Soon takes bids grading, curbing and concrete paving 25th St. from B to Washington Sts. $35,000. W. W. Kerch, 1st Natl. Bank Bldg., engr.

Ill., Oak Park—Bd. Local Impvts. takes bids probably June, asphalt paving 9½ mi. various streets in Northwest Section, 30 ft. W. Thomas, City Hall, engr.

Ill., Rockford — Plans grading, curbing and paving 10 blocks South Main St., Warrenite $70,150, brick $78,940. B. C. Harvey, City Hall, engr.

Ill., Tuscola—Douglas Co. plans grading and concrete paving 7.5 mi. I and I Short Line, Old Ocean to Ocean Highway, 18 ft. $200,000. L. O. Hackett, Tuscola, supt. highways.

Wis., Racine — Making plans rein.-con. paving Gold, Marquette, Augusta, Graham, Franklin, Howe and 13th Sts. To exceed $25,000. J. W. Beaugrand, City Hall, engr.

Wis., Stevens Point—Making plans rein.-con. paving Fremont St. $21,652, Dixon St. $13,084, and McCulloch St. $8,778. J. F. Maxfield, City Hall, engr.

Ia., Grundy Center—Grundy Co. plans gravel surfacing, etc., 22 mi. various roads. E. R. Crary, Court House, engr.

Ia., Muscatine — Muscatine Co. making preliminary plans grading and gravel surfacing Primary Rd. 2 from Sweetland Center to Scott Co. line, and improving 4 mi. Muscatine-West Liberty Rd. from Cedarville School to Oak Tree Corner. $49,000. F. P. G. Halfbass, Court House, engr.

Ia., Sigourney—Takes bids in spring or early summer, grading, curbing and rein.-con. paving 60 blocks various streets. $140,000. Brown & Cook, Ottumwa, engrs.

N. D., Jamestown—Plans paving about 38 blocks various streets. $120,000.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids grading and concrete paving 24,445 sq.yd. alleys in City Blocks 4407, 4391, 4147, 3783, 3604, 5135, 5282, 5323, 5333, 5340, 5368, 5506, 5526, 5528, 5559, 5563 and 2586, $69,100; also grading, curbing and asphalt on concrete paving 9,240 sq.yd. Pennsylvania St., $72,600. W. W. Horner, 300 City Hall, engr.

Mo., Webb City — Making preliminary plans grading, curbing, asphalt and concrete paving various streets. $120,000. City plans election $60,000 bonds and property owners appropriate $60,000 toward cost.

Arkansas — Pulaski Co. (Little Rock) making preliminary plans grading and gravel surfacing 16 mi. 12th St. Pike from Little Rock city limits to Ferndale, 18 ft. $80,000.

Ark., Dardanelle — Making preliminary plans grading, curbing and concrete, asphalt or other hard surfacing 35,000 to 40,000 sq.yd. streets in Paving Dist. 1. J. G. Lawrence & Co., Gazette Bldg., Little Rock, engrs.

Texas—Oceanside Toll Rd. Co., Brownsville, purchased Padre Island, near Corpus Christi, and making plans 151 mi. road from Corpus Christi to Brownsville. $350,000. Private plans.

Tex., Angleton — Brazoria Co. making plans grading, bridging and concrete paving 9 mi. Highway 58, 18 ft. $200,000. C. A. Gavin, Angleton, engr.

Tex., Brownsville — Cameron Co. soon takes bids grading and bridging 24.35 mi. Highway 100, State Aid Project 647. $70,000. W. O. Washington, Brownsville, engr. Noted Dec. 25, 1924.

Tex., Eagle Lake—Plans 6 in. rein.-con. paving about 9 blocks Square and Main St. $29,000. B. H. Faber, city engr.

Tex., Ferris — Voted $130,000 bonds, paving business and residential streets. Address M. McCall, mayor.

Tex., Galveston—Election Apr. 10, $150,000 bonds, constructing Port Arthur-Galveston Highway from Port Bolivar to High Island. C. C. Washington, Galveston, co. engr.

Tex., Hereford — Voted $67,000 bonds, paving 45 blocks various streets. Address E. S. Ireland, Hereford, mayor.

Tex., Houston—Harris Co. election Mar. 9, $6,000,000 bonds, highway construction. State Hy. Comn., Austin granted $1,015,000, State and Federal Aid to supplement bond issue. Howe & Wise, 816 1st Natl. Bank Bldg., engrs.

Tex., Huntsville—Walker Co. soon takes bids grading, and bridging 17.27 mi. State Highway 45, State Aid Project 664, 26 ft. $100,360. D. K. Caldwell, Huntsville, engr. Noted Jan. 14.

Tex., Jasper — Jasper Co. making plans gravel surfacing 10 mi. State Highway 62 from Buna to intersection with Highway 3, 18 ft. $100,000. C. P. Hunter, Jasper, co. engr.

Tex., Karnes City — Karnes Co. making plans bridging and surfacing about 6 mi. Karnes City Dist., $65,000; hard paving 13 mi. Kenedy Dist. $300,000, and 11 mi. Runge Dist., $225,000. O. N. Powell, Karnes City, co. engr. Noted Dec. 17 and 31.

Tex., Laredo — Webb Co. making plans rock asphalt on caliche surfacing 13.25 mi. highway 12-A east of Laredo, 18 ft. $150,600. T. E. Huffman, c/o City Hall, engr.

Tex., Quanah — Hardeman Co. plans grading, bridging and rein.-con. paving 8.46 mi. Highway 5 extending west from Wilbarger Co. line, 18 ft., $332,000; also 7.01 mi. Highway 5 extending west from Quanah, $284,000. J. B. Nabors, Quanah, engr.

See proposal advertisements on page 120, Advertising Section.

Streets and Roads (Continued)

Oklahoma — State Hy. Dept., Oklahoma City, rejected bids Feb. 2, concrete paving 64,280 sq.yd. Federal Aid Project 130-D, $140,000; and 68,759 sq.yd. Federal Aid Project 130-E, $147,800, both Logan Co. Noted Jan. 21.

Oklahoma — State Hy. Dept., Oklahoma City, making surveys grading, etc., 12 mi. Cordell-Hobart Rd., Washita Co. $36,000. J. M. Page, highway engr.

Okla., Billings — Making preliminary plans grading, curbing and concrete paving 9,600 sq.yd. Main St. $30,000. P. Ford, mayor. Engineer not announced.

Okla., Elk City—Plans paving 15 blocks various streets. Benham Eng. Co., 521 Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Hennessey — Making preliminary plans grading and concrete paving 10,700 sq.yd. Oklahoma Ave. $31,200. F. Ehler, mayor. Engineer not announced.

California—See "Streets and Roads."

Calif., Los Angeles—Plans curbing, guttering, sidewalks, and paving 70th, Malden and Macy Sts. To exceed $25,000. J. C. Shaw, City Hall, engr.

Calif., Los Angeles—Made plans improving Cristobal Ave. between Grant and Anaheim Sts., 54,437 sq.ft. 8 in. concrete paving with ½ in. expansion joints, 2,181 ft. curbing, 285 ft. armored curbing, 11,242 sq. ft. one course cement walks, 4,135 sq.ft. remodel rock and oil surfacing, etc.

Calif., Merced—Supervs. Merced Co., rejected bids Feb. 8, asphaltic oil macadam paving 16 mi. Hilmar-Stevinson Rd. Dist. Impvt. 9. Noted Jan. 28.

Calif., Oakland — Alameda Co. making plans improving 2 mi. Crow Canyon Rd., 1,700 cu.yd. culvert excav., 1,500 lin.ft. guard rail, 65,000 lbs. reinforcing, etc. To exceed $35,000. G. A. Posey, Oakland, co. surv.

Calif., Pasadena—Voted $360,000 bonds, widening and paving West Colorado St., Annandale Rd., etc., Municipal Impvt. Dist. 8.

Calif., San Diego—Common Council plans improving Collier, Arizona, Hamilton Sts., 227,367 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete paving, 300 lin.ft. concrete curbing, etc. F. A. Rhodes, city engr.

Calif., San Diego — Bd. Supervs. San Diego Co., plans improving various roads and streets in Vista Dist., 272,690 sq.ft. 2½ in. bituminous macadam paving, 14,210 cu.yd. excav., 10,845 lin.ft. concrete curbing, 20,554 sq.ft. concrete guttering, etc. J. B. McLees, clk.

Calif., San Jose—Santa Clara Co. making surveys paving 2½ mi. Los Gatos-Almaden Rd. $150,000. R. Chandler, San Jose, co. surv.

Calif., San Luis Obispo — Supervs. San Luis Obispo Co. take bids about Mar. 1, 5 in. asphaltic concrete paving 1,361,330 sq. ft. Coast Highway between Morro and Cambria. A. F. Parsons, 644 Islay St., engr. Noted Feb. 4.

Calif., San Rafael—Supervs. Marin Co. soon take bids improving 2½ mi. road from Tomales to Marin Co. line Rd., 11,600 cu.yd. grading, 722 lin.ft. 12- to 48-in. corrugated pipe culvert, 1,250 cu.yd. crushed rock surfacing, etc.; also portion Red Hill Rd., 33,000 cu.yd. grading, 390 lin.ft. 10 in. and 288 ft. 12- to 48-in. corrugated pipe culvert, 3,000 cu.yd. gravel surfacing, etc. J. C. Oglesby, San Rafael, co. surv.

Calif., Vernon—Plans paving, etc., Boyle Ave. and Evergreen St., etc. To exceed $25,000.

Ont., Bothwell—Village plans concrete or macadam paving Main St. $25,000. W. N. Bradley, clk.

Ont., Hamilton—Making plans concrete paving Crosthwaite, Garside, Cameron and Barons Sts. $115,000. W. L. McFaul, city engr.

Ont., Hamilton—City Council plans asphalt on concrete paving Barons Ave. $29,120. W. L. McFaul, City Hall, engr.

Ont., Kitchener—Plans sidewalks and asphalt paving Earl St. from Union to Glasgow Sts., Union St. from Park to Earl Sts., Union St. from Park St. to city limits, Cameron St. from Weber to Troy Sts., Fisher St. from Union to city limits, and Earl St. from Union to John Sts. $76,000. S. Shupe, City Hall, engr.

Ont., London—Middlesex Co. plans grading, graveling, etc. various roads. $40,000. Most of work by day labor. C. Talbot, County Bldg., London, engr.

Ont., Niagara Falls — Stamford Twp. plans macadam paving 3 mi. various streets. $60,000. M. Kerr, Niagara Falls, engr.

Ont., Ottawa—Plans grading and asphalt or concrete paving O'Connor St. from Pretoria to 5th Aves. $29,000. A. F. Macallum, City Hall, engr.

Ont., Sarnia—Lambton Co. plans grading, macadam and concrete paving, etc., various roads. $100,000. J. McCallum, Alvinston, engr.

Ont., Toronto—York Twp. plans widening, grading and probably macadam paving portion West Rd. $40,000. F. G. Goedike, 40 Jarvis St., engr.

Ont., Toronto—Plans grading lane between Woodbine Ave. and Rainsford Rd., $13,500; concrete paving lane 1st north of Gerrard St., $6,618; and asphalt resurfacing Colborne St., $9,396. R. C. Harris, City Hall, engr.

Ont., Toronto—North York Twp. plans widening and paving Yonge St. from city limits to Steeles Corners. $85,000. James, Proctor & Redfern, 36 Toronto St., engrs.

B. C., Burnaby—Municipality soon takes bids improving various streets. $74,000. E. Smith, Edmonds, consult. engr. Noted Feb. 4.

B. C., West Vancouver — Municipality soon takes bids grading and concrete paving 2 mi. Marine Dr. from 11th to 31st Aves. W. G. Swan, Birks Bldg., Vancouver, consult. engr.

BIDS DESIRED

N. Y., Corning — Mar. 4, by Bd. Pub. Wks., W. O. Drake, supt., grading, curbing and rein.-con. paving various streets; adv. E. N.-R. Feb. 18.

New Jersey—Mar. 3, by Bd. Freeholders Monmouth Co., Court House, rein.-con. paving 2.388 mi. Farmingdale-Manasquan Rd. 34 (Sect. 4) and 0.57 mi. Manasquan-Biggetts Rd. 74. G. K. Allen, Jr., 60 Broad St., Red Bank, engr.; adv. E. N.-R. Feb. 18.

New Jersey—Mar. 1, by State Hy. Comn., Trenton, grading, rein.-con. and sheet asphalt paving Route 3, Sect. 14, in Absecon, Atlantic Co. A. L. Grover, Broad St. Bank Bldg., Trenton, secy.; adv. E. N.-R. Feb. 18.

N. J., Asbury Park — Mar. 2, by City Comn., bituminous paving 4,600 sq.yd. Plaza Pl., Asbury Ave., Emory and Bond Sts. Sincerbeaux & Moore, Mechanic Bldg., Trenton, engrs. Noted Dec. 31.

N. J., Camden — Mar. 3, by Delaware River Bridge Joint Comn., Widener Bldg., Phila., Pa., G. Pinchot, chn., grading, paving, etc. Camden approach between 5th and 7th Sts., etc., Contr. 27, for bridge over Delaware River connecting cities of Camden and Phila. J. K. Costello, secy.; adv. E. N.-R. Feb. 18.

N. J., East Orange — Feb. 23, by City Council, L. E. Rowley, clk., 50,000 gal. bituminous road binder, 200,000 gal. non-asphaltic road oil, etc. on various streets.

Pa., Phila.—Feb. 19, by Dept. Pub. Wks., Bureau of Engineering, grading, curbing, paving, etc. and lighting system, etc. in area south of Shunk St. between Delaware and Schuylkill Rivers. G. H. Biles, dir.

Delaware—Mar. 10, by State Hy. Dept., Dover, grading and concrete paving, etc. 3.66 mi. Pine Tree-Odessa Contr. 56, 0.81 mi. Grubb's Corner-Hanby's Corner Contr. CN24, 2.43 mi. County Farm-Wyoming Contr. CK32, 1.33 mi. through Farmington Contr. CK33 and 3.35 mi. Gumboro-Maryland Line Contr. CS49; also superstructure rolling bascule bridge over Broadkill Creek, Contr. 53B; adv. E. N.-R. Feb. 18.

D. C., Wash.—Mar. 10, at District Bldg., grading and concrete and sheet asphalt paving, also sheet asphalt resurfacing and renewing various streets, roads and avenues; adv. E. N.-R. Feb. 18.

W. Va., Williamson—Mar. 2, by Mingo Co. Court, Court House, improving 3.4 mi. Matewan-Thacker Rd., Project 37. L. C. Linkous, Williamson, co. road engr.

South Carolina — Mar. 2, by State Hy. Dept., Columbia, grading sand clay surfacing, etc. 13,351 sq.yd. State Route 24, State Project S-589-C, Orangeburg Co., A. T. Brown, Orangeburg, engr.; top soiling, etc., 33,144 cu.yd. State Route 55, State Project S-603, Greenwood Co., 9,137 cu.yd. State Route 7, State Project S-625, Abbeville Co., E. D. Sloan, Greenville, engr.

Florida—Mar. 25, by Bd. Bond Trustees Ocean Shore Impvt. Dist., at office Secretary, Daytona Beach, approximately 40 mi. paving roads, and 300,000 cu.yd. earth embankment, etc., in Flagler and Volusia Counties. C. M. Rogers, Daytona Beach, engr.; adv. E. N.-R. Feb. 18. Noted Jan. 28.

Fla., La Belle — Feb. 23, by Bd. City Comrs., cement sidewalks, grading, guttering and paving, etc. various streets. $400,000. Ames & Winthrop, La Belle, city engrs.

Ala., Birmingham — Mar. 10, by City Comn., sheet asphalt on 5 in. concrete paving 7 blocks 7th Ave. S., 40 ft. $43,200.

Miss., Quitman—Feb. 25, by Bd. Supervs. Clarke Co., improving 14.724 mi. Federal Aid Project 78-A and 83-B, 87,118 cu.yd. excav., 43,965 cu.yd. borrow, 1,025 ft. culvert pipe, 72,249 lb. reinforcing, 6.13 mi. Bermuda sod, bridges over 20 ft. span, incl. 168,988 ft. creosoted timber, 5,922 ft. untreated timber. 6,758 ft. creosoted piling, etc., also 120 ft. steel span bridge. H. C. Dietzer, Jackson, engr.

Miss., Rosedale—Mar. 9, by City, concrete paving 45,000 sq.yd. various streets. R. F. Cornell, 1313 Walnut St., Vicksburg, engr.

Louisiana—Mar. 16, by State Hy. Comn., Baton Rouge, graveling 5.25 mi. Covington-Franklin Highway, State Project 372-C, Tammany Parish; and 9.1 mi. Sects. B-2 and C-1 Eunice-Lecompte Highway, State Project 380, Evangeline Parish. R. E. R. Robert, Reymond Bldg., Baton Rouge, highway engr.

La., Napoleonville — Feb. 27, by R. L. Baker, pres. Police Jury Assumption Parish, hardsurfacing 12 mi. roads in Dist. 2. J. C. Warless, Napoleonville, engr. Noted July 9.

Tenn., Nashville — See "Contracts Awarded."

O., Akron—Mar. 1, by W. F. Peters, dir. Pub. Serv., grading, curbing and vitr. brick paving, etc., 2,400 sq.yd. Moreley Ave. $25,000. E. A. Kemmler, Delaware Bldg., engr.

O., Cleveland—Feb. 24, by City, cement and stone sidewalks in Northerly, Southerly, Westerly and West Park Dists. $110,000. R. Hoffman, city engr.

Ind., Anderson—Mar. 2, by Comrs. Madison Co., concrete paving Isaac N. Kempler Rd., Anderson twp. $57,416. C. Forkner, aud.

Ind., Bedford — Mar. 2, by Bd. Comrs. Lawrence Co., Courthouse, constructing Springville and Fayetteville Rd., $31,839; Township line and Liberal Rd., $12,572; Lawrenceport and Leipsic Rd., $12,392; Bartlettsville and Chapple Hill Rd., $8,677; William and Fayetteville Ridge Rd., $14,974; Leesville and Zelma Rd. Div. 1, $4,911; and Leesville and Zelma Rd. Div. 2, $5,332. J. H. Taylor, aud.

Ind., Greenfield — Feb. 25, by Comrs. Hancock Co., constructing G. C. Hopkins et al., Rd. between Greensboro Twp., Henry Co. and Brown Twp., Hancock Co., cement, $28,000. G. O. Dunn, aud.

Ind., Indianapolis—Mar. 8, by Bd. Comrs. Marion Co., Courthouse, constructing and improving highway in Washington Twp. $35,000. H. Dunn, co. aud.

Mich., Mason—Feb. 20, by Ingham Co., graveling 7.588 mi. road, 16 ft.

Mich., Muskegon — Mar. 8, by I. L. Christiansen, city clk., 7 in. concrete paving 5,800 sq.yd. Nims St., $20,300; 6 in. concrete paving 3,002 sq.yd. Delaware Ave. $10,507, 8,586 sq.yd. Southern Ave. $30,051, 5,962 sq.yd. Larch Ave. $18,784, and 3,669 sq.yd. Moon St., $12,761; 2½ in. sheet asphalt on 6 in. stone paving 1,600 ft. Merrill Ave. $20,610, and 760 ft. Schuyler St. $10,822, both 30 ft.; 2½ in. sheet asphalt on 5 in. concrete paving, etc., 800 sq.yd. Holbrook Ave. $3,262; 2½ in. sheet asphalt paving 5,725 sq.yd. Forest Ave. $9,322, and 4,374 sq.yd. 3rd St. $8,066; 2½ in. sheet asphalt on old concrete resurfacing 400 ft. Concord Ave., $4,136. H. J. Lewis, City Hall, engr.

Ill., St. Charles—Feb. 23, by City, City Hall, grading, curbing, guttering and rein.-con. paving 32,558 sq.yd. various streets. Wells Eng. Co., Court House, Geneva, engrs.

Wis., Two Rivers—Feb. 24, by R. Biehl, city mgr., sidewalks, curbing, guttering and paving 30,000 sq.yd. various streets. To exceed $25,000.

Ia., Ottumwa—Feb. 26, by E. J. Chambers, city clk., curbing, guttering and rein.-con. surfacing 10,877 sq.yd. Milner St. $43,711, 10,584 sq.yd. Ransom St. $45,110, 7,302 sq.yd. Willard St. $30,912 and 5,330 sq.yd. Hancock St. $22,740. H. E. Cook, City Hall, engr.

North Dakota — Mar. 2, by State Hy. Comn. and Bd. Comrs. Barnes Co., Courthouse, Valley City, improving Projects 233 C, 221 AB, and 171; Mar. 3, Cass Co., Courthouse, Fargo, Projects 267 A, and 268 B; Mar. 4, Richland Co., Courthouse, Wahpeton, Project 285 B; Mar. 5, Grand Forks Co., Courthouse, Grand Forks, Projects 125, 199, 241 and 246 B; Mar. 9, Ward Co., Courthouse, Minot, Projects 181 and 182; adv. E. N.-R. Feb. 18.

Tex., Anderson—Mar. 3, by R. W. Barry, judge Grimes Co., grading and bridging 11.07 mi. State Highway 45, State Aid Project 621, $46,000; also 5.08 mi. State Highway 90, State Aid Project 610, $37,000, both 26 ft. O. A. Seward, Jr., Navasota, engr.

Tex., Boston—Mar. 4, by S. I. Robinson, judge Bowie Co., grading, bridging and gravel surfacing 10.75 mi. State Highway 98, State Aid Project 644, 26 ft. $43,000. F. E. Hess, resident engr.

Tex., Carthage—Mar. 4, by T. E. Boven, judge Panola Co., clearing, grubbing, bridging and grading 5.09 mi. Highway 8-A, State Aid Project 636, $35,700; also 6.47 mi. State Highway 8, Federal Aid Project 482-A., $68,700, both 26 ft. D. E. Martin, Carthage, co. engr. Noted Dec. 24.

See proposal advertisements on page 120, Advertising Section.

Streets and Roads (Continued)

Tex., Linden — Mar. 3, by F. E. Hess, engr., Linden, grading, bridging and gravel surfacing 5.64 mi. Highway 8, Federal Aid Project 457-A, for Cass Co. $90,000.

Tex., Waxahachie — Feb. 27, by H. R. Storck, Judge Ellis Co., grading and bridging 0.87 mi. State Highway 34, Federal Aid Project 385-C, $27,000; also 4.19 mi. State Highway 6, Federal Aid Project 487-C, $26,500, both 26 ft. W. A. Spalding, Waxahachie, co. engr.

California—Mar. 8, by State Hy. Comn., Sacramento, concrete widening 2.1 mi. road between Borden and Madera. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., Hanford — Feb. 24, by E. F. Pickerill, clk. King Co., constructing highway from Armona east 2 mi. on Rd. Five Curves on Hanford-Corcoran Highway, 3,337 cu.yd. concrete paving 170,979 sq.ft. paving on 3½ in. asphaltic paving, 30,962 sq.ft. 4½ in. asphaltic concrete base, and 201,671 sq.ft. 1½ in. asphaltic concrete surfacing, etc. R. May, Hanford, co. surv. Noted Dec. 24.

Calif., Martinez — Mar. 1, by Supervs. Contra Costa Co., reconstructing tunnel highway between Buckley Ranch and Oak Villa, 71,000 cu.yd. excav., 5,710 cu.yd. macadam paving, etc. To exceed $25,000. R. R. Arnold, Martinez, co. surv. Noted Feb. 4.

Calif., Oroville—Mar. 1, by C. F. Belding, clk. Butte Co., constructing Sect. B, Oroville-Chico Rd., 3,720 tons broken stone surfacing (commercial stone), 3,720 tons broken stone surfacing (local stone), 145 tons "E" Grade asphaltic oil spread, etc. H. H. Hume, co. surv. Noted Nov. 19.

Calif., San Diego—Mar. 1, by Common Council, curbing, grading and sidewalks on 37,893 sq.ft. 32nd St. and Greely Ave.; also curbing and asphaltic concrete paving 109,-190 sq.ft. 17th St. between F St. and Imperial Ave. F. A. Rhodes, city engr. Noted Jan. 14 and 21.

Calif., Walnut Creek—Feb. 24, by City Trustees, grading, 2 in. asphaltic macadam paving 136,527 sq.ft. and vibrolithic concrete paving 150,000 sq.ft. various streets. R. L. Calfee, 221 South 22nd St., Richmond, engr. Noted Dec. 17.

BIDS RECEIVED

New Jersey—State Hy. Comn., Trenton, Feb. 15, grading, also 3 sixty ft. span bridge and one small bridge, on Route 9, Sect. 18, Clinton Cutoff, Hunterdon Co., from Richards & Gaston, Somerville, $139,234. Noted Jan. 28.

N. J., Long Branch — Monmouth Co. (Freehold), Feb. 3, rein.-con. paving 1.65 mi. Cedar and Westwood Aves., here, from J. F. Burke, 309 Park Ave., Plainfield, $131,651. Noted Jan. 14 under "New Jersey."

Pennsylvania—State Hy. Dept., Harrisburg, Feb. 6, **(A means Application and R. means Route)** one course rein.-con. paving 13,760 ft. West Wheatfield Twp. Rd., A. 3652, Indiana Co., from R. V. Baldwin, 1361 4th Ave., Coraopolis $92,184, 17,440 ft. Big Beaver Twp. Rd., R. 354, A. 3605, Beaver Co., from O. B. Bracht, Box 286, Titusville $136,820, 25,080 ft. Penn-Manheim Twp. Rd., R. 441-230, A. 3544, York Co., from Continental Contg. Co., Knickerbocker Bldg., Baltimore, Md. $195,659, 41,712 ft. Davidson-Laporte Twp. Rd., R. 19-16, Sullivan Co., from James & Nicholson Co., Inc., 610 U. S. Natl. Bank Bldg., Johnstown $440,483, 4,062 ft. Loyalsock-Old Lycoming Twp. Rd., R. 18-20, Sect. 6, Lycoming Co., from A. W. Henaman, Williamsport $47,-363, 22,520 ft. Benton Twp.-Benton Boro Rd., R. 235, A. 2860-3306, Columbia Co., from Lane Constr. Co., 35 Colony St., Meriden, Conn. $220,748, 8.580 ft. North Fayette Twp. Rd., R. 257, A. 3558, Allegheny Co., from Hardy & Rankin, 40 Murdock St., Canonsburg $68,836, 17,874 ft. Pine Grove Twp. Rd., R. 91, Sect. 6, A. 3678, Venango Co., from Rockford Constr. Co., Rockford, Ill., $109,550; also one course rein.-con. and vitr. brick paving 2,393 ft. Indiana Borough, R. 68, A. 3768, Indiana Co., from M. Bennett & Sons, Indiana, $43,357. Noted Dec. 31.

W. Va., Clarksburg—Harrison Co., Feb. 9, paving Elk Dist. Rd., from Ferguson Bros., Clarksburg, concrete $363,278, bituminous macadam $328,174. Noted Jan. 28.

North Carolina—State Hy. Dept., Raleigh, Feb. 8, from J. F. Mulligan Constr. Co., North Wilkesboro, grading and topsoiling 5.81 mi. Project 772, Watauga Co. $110,408, 6.86 mi. Project 715, Ashe Co. $112,418, 12 mi. Project 303, Bladen Co. $74,930; from N. L. Teer, Durham, clearing, grubbing and grading 7.95 mi. Project 479, Wake Co. $47,125, 15.96 mi. Project 240, Johnston Co. $99,246, 9.87 mi. Project 664, Richmond Co. $55,409, from Huffstills & Ginn, Gastonia, 8.78 mi. Project 635, Gaston Co. $100,292, from W. E. Graham, Mt. Ulla, 4.7 mi. Project 838, Henderson Co. $38,912, 6.47 mi. Project 650, Mecklenburg Co. $68,619; from O. F. Leighton & Co. Inc., Mutual Bldg., Richmond, Va., grading and concrete or asphalt paving 8.56 mi. Project 1020, Beaufort Co. $187,340, 13.46 mi. Project 3960, Robeson Co. $294,593, from Zeigler Bros., Greensboro, 6.83 mi. Project 985, Swain Co. $178,172, from E. H. Wright & Son, Bryson City, 10.27 mi. Project 579, Randolph Co. $273,037, 5.16 mi. Project 465, Person Co. $173,025, from F. J. McGuire, Bankers Trust Bldg., Norfolk, Va., 7.45 mi. Project 1992, Wilson Co. $228,641, from Highway Eng. & Constr. Co., Selbyville, Del., 6.57 mi. Project 4870, Wake Co. $182,811. Noted Jan. 28.

Louisiana — State Hy. Comn., Baton Rouge, repairing washouts 4.19 mi. Natchitoches-Leesville Highway, State Highway Project 315, Sect. A-2, and 5.9 mi. Sect. E same highway, Natchitoches Parish, from Welsh & Salter, Cypress, $17,715. Noted Jan. 21.

Kentucky — State Hy. Dept., Frankfort, Feb. 8, **(F. A. P. means Federal Aid Project)**, grading, etc., 4.064 mi. Columbia-Greensburg Rd., F. A. P. 143-A, Adair Co., from E. Young, Columbia, $39,027; 1.477 mi. Fulton-Mayfield Rd., F. A. P. 146-B, Fulton Co., from L. E. Carter & Co., Loveladeville, $16,907; 15.313 mi. Mayfield-Fulton Rd., F. A. P. 146-A, Graves Co., from Carter, Carter & Braden, Clay, $107,213; 4.147 mi. Elizabethtown-Leitchfield Rd., F. A. P. 147-A, Hardin Co., from General Constr. Co., Elizabethtown, $21,734; 2.986 mi. Fulton-Clinton Rd., F. A. P. 131-F, Fulton Co., and 6.933 mi. Clinton-Bardwell Rd., F. A. P. 131-E, Hickman Co., from Landrum Bros. & Ewell, Dyer, Tenn., $14,-777 and $66,603 respectively; 5.193 mi. Hodgenville-Greensburg Rd., F. A. P. 126-B, La Rue Co., from Mason, Douglas & Handley, West Point, $39,519; 3.59 mi. Richmond-McKee Rd., F. A. P. 129-B, Madison Co., from Vandiver Constr. Co., Harrodsburg, stone masonry $87,280, from H. H. Miller, Jackson, concrete $88,598. Noted Jan. 7.

O., Akron—W. F. Peters, dir. Pub. Serv., Feb. 8, **(e. e. means engrs. est.)**, from Columbus Asphalt Paving Co., 304 Buckeye Bldg., grading, curbing and asphalt paving 1,255 sq.yd. Portage Dr. $7,818 e. e. $9,500, 1,655 sq.yd. Dorchester Rd. $12,800 e. e. $14,600, from McCourt Constr. Co., 365 South Main St., 5,925 sq.yd. Berwin and other streets $37,524 e. e. $47,600, 2,940 sq.yd. Alfaretta Ave. $19,154 e. e. $23,700, 2,680 sq.yd. Oakland Ave. $13,577 e. e. $17,-000, from T. E. McShaffrey Constr. Co., 173 South Forge St., 3,500 sq.yd. Ruby Ave. $24,861 e. e. $30,350; from T. Zuppa, 55 North 11th St., Kenmore, grading and cindering 525 cu.yd. Ranney St. $6,088 e. e. $7,600, from M. Kalain, 573 Wilson St., 800 cu.yd. Tulip St. $5,666 e. e. $7,000, from Guran & Brancich, 429 Matthews St., 1,200 cu.yd. Whitney Ave. $10,903 e. e. $13,600, and 375 cu.yd. Whittier Ave. $3,587 e. e. $4,200. Noted Jan. 28.

Ill., Galesburg—Bd. Local Impvts., Jan. 23, grading, curbing and vitr. brick on concrete paving 8 blocks Day St., 27 ft., from H. H. Gunther, 571 North Seminary St., $42,096. Engrs. est. $44,830. Noted Jan. 21.

JANUARY
leads them all

2602 reports, against 2371 in January, 1925.

$190,647,000 worth of contracts, against $171,099,000 in January, 1925.

These figures are for the United States alone.

In addition—$7,384,000 worth of Canadian contracts was reported.

The gain was consistent in practically all classes, as shown by the following figures for the United States:

	1925	1926
Water-Works	184	248
Sewers	150	137
Bridges	93	98
Waste Disposal	4	8
Excavation, drainage, etc.	51	62
Streets and Roads	538	582
Industrial Buildings	248	247
Commercial Buildings	869	969
Federal Government Work	72	95
Unclassified	162	146
	2,371	2,602

See proposal advertisements on page 120, Advertising Section.

Streets and Roads (Continued)

Missouri—State Hy. Dept., Jefferson City, Feb. 5, from E. D. Tyner Constr. Co., Kansas City, grading 4.148 mi. Cameron-Gallatin Rd., DeKalb Co. $38,439, from Richmond Constr. Co., Richmond, 2.919 mi. road from St. Joseph north, Andrew Co., $2,285, 3.911 mi. Cameron-Gallatin Rd., Daviess Co., $14,242, and 3.468 mi. Kansas City-Jefferson City Rd., Pettis Co., $9,256, from Dobson & Robinson, Lincoln, Neb., 3.868 mi. Cameron-Gallatin Rd., Daviess Co. $19,951, from S. J. Graves & Sons Co., Minneapolis, Minn., 8.635 mi. Cameron-Gallatin Rd., Daviess Co. $44,021, and 3.306 mi. road from Sylvia north and south, Wayne Co. $70,934; from Haller-Emerson Co., Boonville, grading, 22 ft. amiesite and rock asphalt paving 0.625 mi. Boonville-New Franklin Rd., $20,383, also 18 ft. gravel surfacing 1.63 mi. same road, Howard Co., $23,160; from Independent Constr. Co., Pittsburg, Kan., grading and 18 ft. concrete paving 0.966 mi. Carthage-Joplin Rd., Jasper Co., $16,918; from M. E. Gillioz, Monnett, 18 ft. gravel surfacing 8.374 mi. Piedmont-Marble Hill Rd., Wayne Co. $84,869, from D. C. Horton, Ft. Smith, Ark., 14.167 mi. road from Osceola south, St. Clair Co. $95,444, from J. A. Kerr, Ozark, 14.755 mi. road from West Plains east and west, Howell Co. $39,937, from Graham Bros., Leeds, 2.693 mi. Mexico-Montgomery City Rd., $13,151, and 0.674 mi. Mexico-Paris Rd., $4,224, both in Audrain Co., from Phillips & Rigsley, Waynesville, 4.959 mi. Jefferson City-Brazito Rd., Cole Co., $43,088, from Kiefner & Gelle, Perryville, 4.993 mi. Piedmont-Marble Hill Rd., Bollinger Co., $40,246, from J. J. Bailey, St. Louis, 1.16 mi. same road, $18,-261, from F. F. Eberhardt Paving Co., Salina, Kan., 2.919 mi. road from St. Joseph, north, Andrew Co., $42,850, from R. M. Davis & Son, Salisbury 2.731 mi. Fayette-New Franklin Rd., Howard Co., $18,128, from A. L. Cosby, Leeds, 0.672 mi. road from Galena south, Stone Co. $27,622, from F. Kersting Co., Jefferson City, 2.674 mi. Mexico-Montgomery City Rd., Audrain Co. $12,113, from Trogdon Bros., Quincy, Ill., 2.167 mi. road from Kingston north and south, Caldwell Co., $2,814; from R. P. Harper Constr. Co., Chillicothe, 30 ft. grading 3.466 mi. St. Joseph-Hannibal Rd., Linn Co. $25,411, from Pioneer Constr. Co., New York Life Bldg., Kansas City, 3.958 mi. road from Nevada west, Vernon Co. $18,-817, from J. P. Sparks, Kirkwood, 3.156 mi. road from Silva west and east, Wayne Co. $34,989, from J. K. McClarren & Sons, Anobel, 4.369 mi. Waverly-Marshall Rd., Saline Co. $12,318, from Kelly & Underwood, Granby, 3.999 mi. Seneca-Neosho Rd., Newton Co. $24,665, from Winstead & Gunter, Siloam Springs, Ark., 3.857 mi. same road $28,317, from Nevada Constr. Co., Nevada, 3.254 mi. road from Nevada west, Vernon Co. $20,131, and 6.998 mi. Butler-Appleton City Rd., Bates Co., $51,823, from G. A. Nichols, 1800 North Indiana St., Oklahoma City, Okla., 4.98 mi. St. Joseph-Hannibal Rd., Linn Co. $36,384, 1.835 mi. Marshall-Waverly Rd., Lafayette Co. $8,887, and 8.601 mi. same road, Saline Co. $33,928, from C. E. Walker, Cedar Rapids, Ia., 6.751 mi. same road, Linn Co. $64,167; from C. H. Atkinson, Watertown, S. D., 9 ft. concrete paving 20.562 mi. Cameron-Gallatin Rd., Daviess Co., $124,881; from Richmond Constr. Co., Richmond, 18 ft. concrete paving 3.468 mi. Kansas City-Jefferson City Rd., Pettis Co., $45,782. Noted Jan. 28.

Calif., Los Angeles—From Curtis Paving Co., 2440 East 26th St., improving Woodman Ave. between Raymer St. and Sherman Way, grading $18,000, 79,820 sq.ft. 6 in. concrete paving $0.18 per ft., 828,164 sq.ft. 1½ in. Warrenite-bitulithic on 3½ in. asphaltic concrete surfacing $0.19 per ft., etc., total approximately $190,439; from Southern Pacific Constr. Co., 2813 Glendale Blvd., Vineland Ave. between Central Ave. and Ventura Blvd., grading $4,000, 237,755 sq.ft. 6 in. concrete paving $0.183, etc., total $63,970. Noted Feb. 4.

Calif., Oakland—Alameda Co., constructing roadways, walks, steps, walls, etc. at Highland Hospital, from Frederickson & Watson, Builders Exch. Bldg., $210,000. Noted Jan. 28.

CONTRACTS AWARDED

N. J., Red Bank—Monmouth Co. (Freehold) rein.-con. paving 0.79 mi. Rumson Rd., here, to Jannarone Co., 225 Passaic Ave., Belleville, $42,851. Noted Jan. 14 under "New Jersey."

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., asphalt paving Bermuda St. between Duncan St. and point about 282 ft. south and Edgemont St. between point 427 ft. south of Orthodox and Eddington Sts., $13,975, also Rutland St. between Harrison and Wakeling Sts. $7,051, to Barber Asphalt Co., 239 North 30th St., Bodine St. between Bristol and Cayuga Sts. $6,037, Nedro St. between 21st and Kemble Sts. $9,245, 5th St. between Nedro and Godfrey Sts. $25,581, 20th St. between Andrews and Middleton Sts. $5,765, and asphalt repaving 52nd St. between Baltimore and Warrington Sts. $78,824; to Eastern Asphalt Co., 1504 Pennsylvania Bldg., asphalt paving Conlyn St. between Ogontz and Grange Sts. $8,565, to Union Paving Co., 30th and Locust Sts., Torresdale St. between I and N Sts., $94,-583; to Fish-Rutherford, Inc., 4058 Chestnut St., redressed granite block repaving (track areas) of Erie St. between Germantown Rd. and 2nd St. $60,142, Girard St. between 54th and 60th Sts. $29,418, 12th St. between Columbia and Huntingdon Sts. $32,627, 19th St. between Girard and Susquehanna Sts. $32,571, and 29th St. between Lehigh and Allegheny Sts. $28,292; to Acchione & Canuso Paving Co., 804 South 12th St., redressed granite block repaving 4th St. between Market and Race Sts. $14,687, to Municipal Paving Co., 702 Catharine St., 4th St. between Pine and Catharine Sts. $25,671; and to R. B. Wenner, 2313 Walnut St., grading Holme Ave. between Holme Circle (Welsh Rd.) and Willits Rd. $45,032. Grand total $468,-066. Noted Feb. 11.

Pa., Pittsburgh — Allegheny Co., general contract 16 ft. brick on 18 ft. rein.-con. paving 22,050 ft. Lebanon Church Rd., Mifflin and Jefferson Twps. near here, to Duilus & Benentend, Hargrove St., $303,000. Engrs est. $350,000.

Tenn., Nashville—City will grade and macadamize Cedar Lane, Blair Blvd., Coffee, Albion, Hamilton, North 6th and 7th Sts., Sweetbriar, Jones, 28th, Richardson and Hermosa Aves., by day labor. To exceed $25,000. W. H. Peebles, supt. streets.

Minn., Fergus Falls — H. Collins, city clk., paving, curbing, 7½ in. rein.-con. paving 24,050 sq.yd. and 6 in. concrete paving 538 sq.yd. Union and Cavour Aves., to C. F. Sculley Equipment Co., 212 Dakota Bldg., St. Paul, $67,744. Noted Jan. 14.

Ill., Chicago — Bd. Local Impvts., City Hall, substructure and superstructure of Sect. 9 South Water St. Impvt. from east line State St. to west line Wabash Ave., to Mid-Continent Constr. Co., 6 North Michigan Ave., $547,131. Noted Feb. 11.

Kan., Hiawatha—F. A. Ford, clk. Brown Co., grading, etc. 6.854 mi. Federal Aid Project 274-A, also three 8 ft. multiple box spans and one 25 ft. deck girder span bridge, to Rickel, Coleman, Reese & Dubach, Scandia, $45,832. Noted Jan. 14.

Tex., Abilene — Paving North 2nd St. from Almond to Sassafras Sts. and North 2nd St. from Ash to Almond Sts., to West Texas Constr. Co., Cotton Exch. Bldg., Ft. Worth, $32,651.

Tex., Abilene — For 1½ in. Warrenite bitulithic on 2 in. asphaltic concrete and 6 in. gravel paving about 6 blocks Edlewold St. from Grand Ave. to Sayles Blvd. and Pecan St. from South 3rd to 4th Sts., also hard paving about 7 blocks North 2nd St. from Ash St. to Almond Ave., to West Texas Constr. Co., Abilene, $2.27 per yd. and $25,000 respectively. Noted Jan. 28.

Tex., Gilmer—L. G. Martin, city secy., brick on gravel paving 27,000 sq.yd. various streets., to Cocke & Turner, Marshall, $44,-657. Noted Feb. 11.

Tex., Houston — Warrenite paving Polk Ave. from Slaughter Pen Bayou Bridge to Hughes St., to Gulf Bitulithic Co., Bankers Mortgage Bldg., $51,570.

Tex., Tulia—J. H. O'Neall, mayor, 2½ in. brick on 4 in. concrete paving approximately 47,000 yd. various streets, to Jordan Constr. Co., Plainview, $131,806. Noted Feb. 11.

Tex., Wichita Falls — Hard paving, etc. about 9 blocks Grace and Harrison Sts., to Plains Paving Co., c/o Staley Bldg., $3 per sq.yd. Engrs. est. $28,000.

Oklahoma—State Hy. Dept., Oklahoma City, **(S. A. P. means State Aid Project and e. e. means engineers estimate)**, grading, etc., 11.39 mi. Vinita-Chelsea Rd., S. A. P. 254, Craig Co., to J. C. Fields, Denison, Tex., $30,417 e. e. $35,000; 8.51 mi. Vinita-Afton Rd., S. A. P. 255-A and B, Craig Co., to O. M. Drake, 804 Barnes Bldg., Muskogee, $31,226 e. e. $35,000; 6.48 mi. Medford-Jefferson Rd., S. A. P. 268, Grant Co., to Garfield Constr. Co., Enid, $26,757 e. e. $30,000; 6.789 mi. Blanchard-New Castle Bridge Rd., S. A. P. 181-A, McLain Co., to D. Sweeney, 614 West 11th St., Oklahoma City, $27,987 e. e. $30,000; 5.66 mi. Chelsea-Rogers Co. line Rd., S. A. P. 257-A, Rogers Co., to T. L. Green, 519 West Main St., Oklahoma City, $29,615 e. e. $32,500; 3.679 mi. Hennessy-Kingfisher Co. line Rd., S. A. P. 264, Kingfisher Co., to J. E. Smith, Nob. $18,-562 e. e. $25,000, all above roads 30 ft. wide. Grand total $164,564. Noted Jan. 28.

Oklahoma—State Hy. Dept., Oklahoma City, grading and concrete surfacing 7,847 sq.yd. State Aid Project 248-A, and 21,720 sq.yd. same road, Sect. B, Payne Co., to Dougherty, Nichols & Wiggins, Traders-mens Bldg., Oklahoma City, $23,937 and $50,010 respectively. Engrs. est. $25,000 and $55,000 respectively. Noted Jan. 28.

Oklahoma—State Hy. Dept., Oklahoma City, grading, etc., 9.61 mi. Comanche-Stephens Co. line Rd., State Aid Project 252-C and D, Stephens Co., 54,510 cu.yd. earth, and 2,027 cu.yd. rock excav., 32,462 cu.yd. borrow, 50,950 cu.yd. overhaul, 23.53 tons reinforcing, etc., to Green Constr. Co., 519 West Main St., Oklahoma City, $34,-670. Engrs. est. $41,000. Noted Jan. 21.

Okla., Blackwell—Grading, curbing and vertical fibre brick paving 11,360 sq.yd. streets in Impvt. Dist. 31, to O. T. Tyler, Blackwell, $46,274. Engrs. est. $50,210. Noted Jan. 7.

Calif., Los Angeles — Curbing, guttering, walks, and asphaltic concrete paving Ave. 46 between York Blvd. and Mont Eagle Pl., to Day Corp., Boston Bldg., Pasadena, $351,925. Noted Feb. 4.

Calif., Long Beach — To V. Kovacevich, 1553 Loma Ave., improving Termino Ave. between Anaheim and State Sts., 98,668 sq. ft 7 in. concrete paving $0.24 per sq.ft., 15,-112 sq.ft. walks $0.16, 3,566 ft. curbing $0.42, etc.

Calif., Los Angeles—Asphaltic concrete paving, etc., Woodley Ave. between Roscoe and Sherman Way, to Gibbons & Reed, 2022 Glendale Blvd., $24,385.

Calif., Los Angeles — Bd. Supervs. Los Angeles Co., curbing, guttering, walks, concrete paving, etc. 195,172 sq.ft. Bellview Ave., to G. H. Oswald, 366 East 58th St., $63,958; also grading, 86,361 sq.ft. 6- to 8-in. and 196,123 sq.ft. 5- to 9-in. concrete paving, etc. Santa Fe Ave., etc., to J. M. Shull Co., 1260 Locust Ave., Riverside, $160,313. Noted Jan. 28.

Calif., Los Angeles—Grading, curbing and asphaltic concrete paving Pacific Ave. between Hamilton Ave. and Paseo Del Mar, also Walker Ave. between 18th and 25th Sts., to Griffith Co., Railway Bldg., $24,276 and $120,785 respectively.

Calif., San Diego—Common Council, 220,-858 sq.ft. 6 in., and 18,359 sq.ft. 5 in. concrete paving, etc. Torrey Rd., Pearl and Girard Sts., to E. P. Ford, 4200 Highland Ave., $55,690; also 5 in. concrete paving, etc. 138,929 sq.ft. Brighton Ave. between Abbott and Guizot Sts., to B. Noble, Spreckels Bldg., $37,739. Noted Jan. 21.

Calif., Torrance—Grading, curbing, 6 in. concrete and 5 in. macadam paving Cedar Ave. between Carson and alley in Block 87, to Oswald Bros., 366 East 58th St., Los Angeles, $102,210. Noted Dec. 31.

Calif., Willows—City Trustees, grading, curbing, guttering and 2½ in. Warrenite-bitulithic surfacing, etc., Tehama St., etc., to Clark & Henery Constr. Co., Chancery Bldg., San Francisco, $68,500. Noted Jan. 21.

Buildings—Industrial

PROPOSED WORK

Ala., Sheffield—LAMP STANDARD FACTORY—King Co., 8th and Doniphan Aves., St. Joseph, Mo., plans factory for manufacturing electric light standards, here. $100,000.

Tenn., Paris—SHOP and MILL—Louisville & Nashville R.R. Co., Louisville, Ky., W. H. Courtenay, ch. engr., plans rebuilding shop and planing mill, here, recently destroyed by fire. $40,000.

O., Akron — HEATING PLANT and LAUNDRY—City having plans prepared by Good & Wagner, Buckeye Bldg., 1 and 2 story, 40 x 100 ft. heating plant and laundry, East Market St. $100,000.

O., Cleveland—FACTORY—Wovenwright Knitting Co., J. F. Norton, pres., 1276 West 6th St., plans 2 or 4 story, brick, steel and concrete, East 45th St. and Payne Ave. $100,000. Engineer and architect not selected.

O., Cleveland — FOUNDRY — Crucible Steel Casting Co., W. H. Shepard, pres., West 8th St. and Almira Ave., had preliminary plans prepared by G. S. Rider Co., Century Bldg., 1 story, 100 x 200 ft., brick and steel, West 8th St. and Almira Ave. $100,000.

See proposal advertisements on page 120, Advertising Section.

BRIDGE—DELAWARE

Bids were opened by State Highway Department, Dover, for bridge over Broadkill Creek, Contract No. 53-A, (A) Kaufman Construction Co., Philadelphia; (B) Carl R. Camp, Philadelphia; (C) A. S. Fox, Rehoboth; (D) New Jersey General Construction Co., Princeton; (E) Vineyard Shipbuilding Co., Milford; Roberts Paving Co., Salisbury, $33,157; F. R. Jones, Wilmington, $33,855; Hill Construction Co., Mt. Holly, $42,390; G. A. Flink, Wilmington, $45,285. The unit bids of the lowest four and highest bidders are as follows:

	A	B	C	D	E
430 cu.yd. wet excavation	$10 50	$15 00	$7 00	$14 00	$6 00
300 cu.yd. dry excavation	3 25	3 60	2 50	4 00	4 00
135 cu.yd. CL "AA" concrete	31 00	21 50	34 40	26 00	41 00
335 cu.yd. CL "A" concrete	22 50	19 70	33 40	25 00	40 00
10,000 lb. reinforcement	07	07	07	07	08
60 lin.ft. 15 in. R.C. pipe	2 00	3 00	3 00	3 50	4 00
3,300 lin.ft. timber piling	80	1 25	1 10	1 10	3 70
1,000 lin.ft. creosoted timber piling	1 70	1 75	1 50	1 90	4 00
3 M ft. b.m. fender timber	150 00	220 00	200 00	160 00	200 00
2 M. ft. b. m. sheet piling	150 00	100 00	200 00	200 00	200 00
Temporary bridge (lump sum)	4,000 00	3,000 00	2,450 00	4,000 00	3,990 00
Payment to Keller & Harrington	900 00	900 00	900 00	900 00	900 00
Extended totals	$28,023	$28,547	$29,953	$31,325	$45,855

Buildings—Industrial (Continued)

O., Cleveland—PLANT—Cleveland Electric Illuminating Co., Illuminating Bldg., soon lets contract 3 story, 56 x 124 ft. switchhouse, 2 story, 34 x 86 ft. control house, 1 story, 80 x 92 ft. oil storage building, all brick, steel and concrete, Clinton Ave. $175,000. E. J. Cook, Illuminating Bldg., engr. and archt.

O., Germantown—CEMENT PLANT—Dayton Portland Cement Co., J. F. Gibbons, pres., Gibbons Hotel, Dayton, plans cement plant, here. $1,000,000.

O., Portsmouth — PRINT SHOP — Keystone Printing Co. had plans prepared by Devoss & Donaldson, Portsmouth, 2 story, 30 x 80 ft. print shop, 842 4th St. $40,000.

Ind., Elkhart — FACTORY — H. Weis Mfg. Co. plans 1 story, brick and rein.-con. factory. $90,000.

Ind., Indianapolis — STORAGE — Acme-Evans Co., Blake and Washington Ave., soon lets contract grain storage building, incl 13 round bins, 110 ft. high, $90,000. Bacon & Tislow, 206 West 31st St., archt.

Ill., Chicago—FACTORY—R. E. Major & Co., archts., 4022 West Madison St., taking bids 1 story and basement, brick, 4638 West Huron St., for Western Name Plate Co., 4638 West Huron St. $60,000.

Ill., Chicago—FACTORY—F. A. Randall, structural engr., 160 North La Salle St., soon lets contract 2 story, 75 x 100 ft., brick and timber addition, 1650 Walnut St., for Jewell Electrical Instrument Co., 1650 Walnut St. $40,000.

Ill., Chicago—FACTORY—F. E. Davidson, archt, 2 West Van Buren St., soon lets contract 1 and 2 story, 26 x 600 ft., fireproof, 82nd St. and Haynes Ave., for C. E. Peterson Co., 4911 Wentworth Ave. Noted Dec. 3.

Ill., Venice — POWER PLANT — Illinois Power & Light Corp., 1547 Illinois Merchants Bank Bldg., Chicago, T. J. Lucas, ch. engr., purchased 80 acre site adjoining present plant, here, and plans addition, incl. 30,000 kw. turbine and three 1,500 hp. boilers. $5,000,000. Private plans.

Wis., Milwaukee—POWER HOUSE and LAUNDRY—See "Buildings—Educational, Religious."

Wis., Milwaukee — LIGHT MANUFACTURING—Ruech Printing Mchy. Co., 485 Bway., having plans prepared by O. Webb, 544 49th St., 3 story and basement, 32 x 120 ft., brick and concrete or brick and mill, plain foundation, Bway. $50,000.

Wis., West Allis—DAIRY—Woodlawn Farm Dairy having plans prepared by F. Pfeifer, 586 66th Ave., 2 story, 52 x 60 ft., brick, plain foundation, 77th Ave. $40,000.

Ia., Des Moines—NEWSPAPER—Proudfoot, Rawson & Souers, archts., 810 Hubbell Bldg., soon let contract remodeling 3 story and basement, 66 x 133 ft., brick and steel, plain foundation, 8th and Locust Sts., for Register & Tribune Publishing Co., 715 Locust St. $150,000.

Neb., O'Neill — CREAMERY and REFRIGERATION PLANT—Armour & Co., 1200 Lake Shore Dr., Chicago, Ill., having plans prepared brick centralization creamery and refrigeration plant, here. $50,000. Private plans.

Mo., Marionville—VINEGAR FACTORY—Speas Vinegar Mfg. Co., Nicholson and Watkins Sts., Kansas City, plans vinegar factory, here. $75,000. Engineer and architect not selected.

Mo., St. Louis — MANUFACTURING — Century Electric Co., 1827 Pine St., purchased 8 acre site and making preliminary plans factory, Forest Park Blvd.

Ark., Little Rock—BAKERY—Continental Baking Co., c/o J. Newman, Home Life Bldg., soon takes bids 3 story and basement, 75 x 140 ft., rein.-con., 5th and State Sts. C. L. Thompson, 504 Home Life Bldg., archt.

Ark., Hot Springs—LAUNDRY—Craighead Laundry Co., 211 Valley St., having preliminary plans prepared by S. M. Frink, 206 Hobson Ave., 2 story and basement, 150 x 154 ft., rein.-con., brick, steel and terra cotta, 323 Malvern Ave.

Tex., San Marcos—COTTON MILL—Morris & Co. Textile Mill, Trenton, N. J., having preliminary plans prepared cotton mill, here. $300,000. Private plans.

Tex., Sanderson — POWER PLANT — Continental Gas, Light & Power Co., Ft. Worth, purchased plant Sanderson Ice, Water & Light Co., here, and plans improvements. Private plans.

Tex., Seguin — CANNING PLANT — Stock Co., c/o Chamber of Commerce, making preliminary plans cucumber canning plant, $25,000. Address Chamber of Commerce.

Okla., Duncan—GAS PLANT—Election soon approximately $100,000 bonds, gas plant. Address Mayor.

Okla., Enid — REFINERY — Bolene Refinery Co. plans enlarging and rebuilding refinery. $300,000. V. E. Bolene, pres.

Okla., Marland — COTTON GIN — E. Coyle, Perry, having preliminary plans prepared 5 stand 70 saw capacity cotton gin, here. $60,000. Private plans.

Nev., Reno — HEATING PLANT — Regents University of Nevada, plans fireproof central heating plant, on campus. $40,000.

Calif., Bakersfield—FREIGHT DEPOT—Southern Pacific R.R. Co., 65 Market St., San Francisco, having plans prepared, fireproof, 21st and R Sts. $175,000. Eng. Dept. of Owners, engrs.

Calif., King City—MILK CONDENSARY—Nestles Food Co., 112 Market St., San Francisco, plans milk condensary, here. $200,000 or more.

Calif., Los Angeles — FACTORY — Link-Belt, Meese & Gottfried Co., 400 East 3rd St., plans factory, 1st and Anderson Sts. To exceed $75,000.

Calif., Walnut Creek—SUB-STATION—Pacific Gas & Electric Co., 245 Market St., San Francisco, having plans prepared fireproof, near Orinda. $50,000. Eng. Dept. of Owners, engrs.

Ont., Kapuskasing—PAPER and POWER PLANTS—Spruce Falls Pulp & Paper Co., having plans prepared 400-500 ton newsprint mill, here and hydro-electric power plant, on Mattagami River, at Smoky Falls, both rein.-con. and steel. $10,000,000. G. F. Hardy, 305 Bway., New York City, engr.

Man., Winnipeg—PRINTING—T. Eaton Co., Ltd., Toronto, Ont., soon takes bids 120 x 160 ft., rein.-con. and brick, Robert St., here, $225,000. J. Woodman, 408 Great West Permanent Bldg., archt.

Mexico, Guadalajara—LIGHT PLANT—Morrison & McCall, Frost Bldg., San Antonio, Tex., purchased plant of Compania Electrica del Chapala of Mexico City and plans increasing capacity 100,000 hp., transmission lines, etc., here.

BIDS DESIRED

Conn., Danbury—GARAGE and REPAIR STATION—Schwartz Co., 284 Main St., taking bids 2 story, 80 x 100 ft., rein.-con. and steel, plain foundation, Main St. $68,000. Private plans.

Pa., Phila.—FACTORY—Feb. 23, by C. E. Wunder, archt., 1529 Locust St., 4 story and basement, 60 x 100 ft., rein.-con. and stone, plain foundation, 17th and Cambria Sts., for R. McNeil, 2347 Reese St. $150,000.

Pa., Phila.—WAREHOUSE—Feb. 29, by H. J. Heinz Co., 12th and Sedgley Sts., and A. Kahn, archt., Marquette Bldg., 5 story and basement, 100 x 330 ft., rein.-con., brick and steel warehouse. $1,000,000.

Pa., Wilson—PRINTING PLANT—Feb. 23, by Ballinger Co., archts., 12th and Chestnut Sts., Phila., 1 story and basement 128 x 302 ft., rein.-con. and brick, plain foundation, Northampton St. between 19th and 20th Sts., here, for Mack Printing Co., c/o archts. $100,000.

Tenn., Memphis—LAUNDRY—Feb. 23, by Memphis Steam Laundry, North 2nd St., 2 story and basement, brick laundry. $300,000. E. L. Hanson, Memphis, archt. Noted Aug. 20.

Ia., Cedar Rapids — MILLS — Waconia Sorghum Mills, Inc., Waconia, Minn., taking bids 4 steel buildings. To exceed $40,000. E. Wessale, pres. and genl. mgr.

Ark., Marshall—ICE PLANT—See "Contracts Awarded."

Calif., Bakersfield — NEWSPAPER PLANT — C. H. Biggar, archt., Bank of Italy Bldg., taking bids 2 story and basement, brick and concrete plant, for Bakersfield Californian. $100,000. Noted Oct. 29.

CONTRACTS AWARDED

Mass., Cambridge (Boston P. O.)—FACTORY — Daggett Chocolate Co., Lewis Wharf, Boston, 6 story and basement, 65 x 170 ft., rein.-con. and steel, Main and Ames Sts., here, to W. M. Bailey Co., 88 Broad St., Boston. Archts. est. $200,000.

Conn., New Britain—FACTORY—Amer. Hardware Corp., 10 Franklin Sq., 2 story, 60 x 360 ft., rein.-con. and brick, plain foundation, to Aberthaw Constr. Co., 80 Boylston St., Boston, Mass. Archts. est. $160,000. Noted Feb. 11.

N. Y., North Albany (mail Albany)—BAKERY — Kolb Baking Co., Allentown, Pa., 2 story and basement, 154 x 171 ft., brick and concrete Bway., here, to V. Gondos, 546 Court St., Reading, Pa., $500,000. Noted Oct. 15.

N. Y., Olean — CAR SHOPS — Pennsylvania R.R. Co., Broad St. Sta., Phila., Pa., general contract 1 story, 110 x 175 ft., brick and steel addition, here, to L. S. Peck, Inc., Empire Bldg., Pittsburgh, Pa. Archts. est. $250,000. Noted Jan. 14.

N. Y., Port Ivory (mail Mariners Harbor)—FACTORY—Proctor & Gamble, 6th and Main Sts., Cincinnati, O., rein.-con., steel and stone addition, plain foundation, here, to J. W. Ferguson, 52 Market St., Paterson, N. J. Archts. est. $3,000,000. Noted Jan. 7.

Pa., Braddock — POWER PLANT — United Electric Light Co., rein.-con., brick and steel power plant, to Day & Zimmermann, 1600 Walnut St., Phila. Engrs. est. $200,000. Noted June 4.

Pa., Chester — PLANT — B. R. Brown, constr. engr. Dept. Ford Motor Co., Highland Park, Mich., structural steel for as-

See proposal advertisements on page 120, Advertising Section.

Buildings—Industrial (Continued)

sembling building, power house, pump house, car delivery building, etc., Front St. and Delaware River, here, to McClintic Marshall Co., Oliver Bl., Pittsburgh, Pa. Noted Feb. 4.

Pa., Freeland—SHIRT FACTORY—Freeland Shirt Co., Dewey St., 1 story, 80 x 150 ft., incl. additional 1 and 2 story, Dewey Ave., to R. H. Woerfel, Markel Bank Bldg., Hazleton, $60,000.

Pa., Minersville — FACTORY — Phillips-Jones, Pottsville, 2 story and basement, 48 x 70 ft. brick and timber shirt factory, to C. Messersmith, Mahautorga St., Pottsville, $40,000.

Pa., Pittsburgh — LABORATORY—Vitro Mfg. Co., Fulton Bldg., general contract 4 story and basement, 32 x 80 ft., Fairston Ave., to F. Brunner Co., Fulton Bldg. Archts. est. $40,000.

Pa., Pittsburgh—PUBLISHING PLANT —Press Publishing Co., 222 Olive Ave., general contract 3 story and basement, 160 x 240 ft., 2nd Ave. and Short St., to W. T. Grange Constr. Co., Keenan Bldg. Engrs. est. $300,000. Noted Jan. 21.

Pa., Pottsville — SHIRT FACTORY — Phillips-Jones Co., 233 Mauch Chunk St., 2 story and basement, 73 x 217 ft., brick and cinder block, Pioneer Island, here, to C. Messersmith, 1201 Mahautonga St. $100,000.

Pa., Reading — BAKERY — Freehofer Bakery Co., 20 Indiana Ave., Phila., demolishing present buildings and constructing 2 story and basement, 50 x 143 ft., brick and concrete, Walnut St., here, to O. A. Deglar, 1041 Walnut St. $100,000. Noted Nov. 5.

W. Va., Weirton—PLANT—Weirton Steel Co., general contract 8 sheet mills, to Hughes-Foulkrod Co., 421 7th Ave., Pittsburgh, Pa.; steel contract, to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa. Archts. est. $2,000,000. Noted May 14.

Ga., Atlanta — PLANT — Coca Cola Bottling Co., 460 Edgewood Ave., 2 story, 150 x 150 ft., rein.-con. and steel, to Griffin Constr. Co., Bona-Allen Bldg. Engrs. est. $75,000. Noted Dec. 10.

Ala., Powderly — CEMENT MILL — Phoenix Portland Cement Corp., Birmingham, L. G. Morton, pres., will build 1,300,000 bbl. capacity, concrete and steel cement mill, here, by day labor. $2,500,000. R. J. Hawn, Birmingham, ch. engr.

Tenn., Memphis—TIRE STATION—W. A. Webster & Co., 224 East St., 2 story, 110 x 135 ft., steel, Linden Ave. and South Camilla St., to H. A. McGuire, 1746 Snowden St. Archts. est. $40,000.

O., Cleveland—FOUNDRY—Gluntz Fdry. Co., 3004 West 55th St., 1 story, 60 x 126 ft., and 24 x 30 ft. addition, 3005 East 55th St., to J. H. O'Grody, 2251 Goodnor Ave. Archts. est. $42,000.

Ill., Chicago—FACTORY—Dowst Bros. Co., 120 Ann St., masonry and carpentry contract 4 story and part basement, 100 x 100 ft., rein.-con., brick and stone, North Kenton Ave. and Fulton St., to G. F. Meyne, 127 North Dearborn St. Archts. est. $200,000.

Ill., Chicago—FACTORY, etc.—Morton Mfg. Co., 5133 West Lake St., masonry and carpentry contract 2 story, 93 x 228 ft., and 50 x 105 ft. factory and office building, 5111 West Lake St., to E. L. Ward, 4733 West Congress St. Archts. est. $95,000.

Ill., Evanston—FACTORY—Toy Tinkers Co., masonry and carpentry contract, 4 story, 120 x 196 ft., rein.-con. and brick factory, Ridge Ave. and Leon Pl., to W. E. O'Neil Constr. Co., 19 South La Salle St., Chicago. Archts. est. $140,000.

Wis., Wauwatosa—POWER PLANT—Milwaukee Co., W. L. Coffey, mgr. County Institutions, plans 2 story, rein.-con. and brick addition to central power plant, plain foundation. $316,000. Engineer and architect not selected.

Mo., Marionville—COLD STORAGE, etc. —Marionville Cold Storage Co., general contract, 4 story and basement, 85 x 110 ft. rein.-con. and brick, to Easley Bros., Aurora, $50,000. Noted Jan. 7.

Ark., Marshall—ICE PLANT—Marshall Ice & Electric Co. will build 1 story, 50 x 70 ft., rein.-con., brick and steel plant, by day labor. $50,000. This corrects report in Jan. 28 issue.

Okla., Tahlequah — HYDRO-ELECTRIC PLANT—State granted permission to C. Page, Chamber Commerce Bldg., Sand Springs, to construct hydro-electric plant on Illinois River, incl. 700 ft. dam, 60 ft. high, east of here. $690,000. C. Tingley, Sand Springs, engr. Noted Jan. 7.

Calif., Los Angeles—BAKING PLANT—C. W. Wittenburg, 2 story, 100 x 100 ft., brick and steel, West 62nd St., to Austin Co. of California, 777 East Washington St. Engrs. est. $40,000.

Buildings—Commercial

PROPOSED WORK

Mass., Boston — OFFICE, etc. — Owner, c/o W. H. Ballard Co. (lease mgrs.), 45 Milk St., having plans prepared by Blackall, Cass and Whittemore, 20 Beacon St., 13 story and basement, 160 x 235 ft., rein.-con. and steel office and light manufacturing building. $2,500,000.

Mass., Hyannis—APARTMENT—W. W. Hoblitzell, 31 Milk St., Boston, plans brick and steel, Main St. $250,000. Private plans.

Mass., Pittsfield — OFFICE — Berkshire Life Insurance Co., West St., plans 4 story and basement, 85 x 200 ft., brick and steel, West St. $300,000.

Mass., Springfield — THEATRE — Goldstein Bros. Co., Bway. Theatre, having new plans prepared 3 story, rein.-con. brick and steel, State St. $1,000,000. Engineer and architects names withheld.

Mass., Worcester — HOTEL — H. Steinberg, Main St., having plans prepared by Blackhall & Elwell, 44 Bromfield Ave., Boston, 14 story and basement, 60 x 125 ft., brick and steel, Elm St. $600,000.

R. I., Cranston (mail Providence) — HOSPITAL—State Hospital, G. T. Gordon, comr. Pub. Welfare, State Hospital, Providence, plans addition to state hospital, here. To exceed $150,000. Engineer and architect not selected.

Conn, Hartford—STORE, etc.—Eastern Plumbing Supply Co., 80 Market St., plans 3 or 4 story, 80 x 150 ft., brick and steel, store, showroom and storage, plain foundation. $125,000-$150,000. Engineer and architect not selected.

Conn., Hartford—STORE—Garber Bros., 120 Morgan St., plans 6 story, brick and steel, Asylum St. $250,000. Engineer and architect not selected.

Conn., New Haven—THEATRE—W. H. Day, archt., 44 Kirkman Ave., East Haven, preparing plans 1 story and basement, brick and steel, plain foundation, Whitney Ave., here. $150,000. Owner's name withheld.

Conn., Stamford — APARTMENT and GARAGE—S. Zatkin, Woolsey Rd., having plans prepared by D. Mansell, Strand Bldg., 4 story, U shaped, 72 rooms, brick, steel and stone, Highland Rd. $600,000.

Conn., Washington—CLUB—Berkshire-Waramaug Country Club, c/o J. Unger, archt., 93 Amity St., Flushing, N. Y., plans 2, 3 and 5 story, stone and concrete country club, Waramaug Lake. $3,500,000.

Conn., Waterbury—BUSINESS—Waterbury American, 174 Grand St., soon lets contract brick and steel business block, Grand St. $150,000 or more. Lockwood, Greene & Co., 24 Federal St., Boston, Mass., archts.

Conn., West Haven (br. New Haven) — THEATRE—State Amusement Co., c/o 195 George St., New Haven, having plans prepared by C. H. Abramowitz, 42 Church St., New Haven, brick and steel, plain foundation, Center St. and Campbell Ave., here. $200,000.

N. Y., Albany—BANK—Home Savings Bank, 13 North Pearl St., soon takes bids brick, steel and stone, plain foundation, North Pearl St. $1,000,000. Dennison & Hirons, 288 Lexington Ave., New York City, engrs. and archts. Noted Jan. 28.

N. Y., Brooklyn—THEATRE—M. L. Levine, 114 Graham Ave., soon takes bids brick, steel and stone, plain foundation, New York Ave. $200,000. J. M. Berlinger, 469 7th Ave., New York City, engr. and archt.

N. Y., Buffalo—STORAGE—Saskatchewan Co-operative Elevator Co., Chamber of Commerce Bldg., plans storage addition, office building, etc., Hamburg Turnpike. To exceed $300,000.

N. Y., Buffalo—Y. M. C. A. having plans prepared by Bley & Lyman, 505 Delaware St., Y. M. C. A. building, Abbott Rd. $150,000.

N. Y., New York—APARTMENT—C. W. Mave Co., c/o Springsteen & Goldhammer, engrs. and archts., 32 Union Sq., having plans prepared 5 story, brick, steel and stone, plain foundation, Shakespeare Ave. and 172nd St. $325,000.

N. Y., New York—TEMPLE—Temple Emanu-El, 5th Ave. and 43rd St., having plans prepared by R. D. Kohn, C. Butler and C. S. Stein, 56 West 45th St., brick, steel and stone, plain foundation, 5th Ave. and 65th St. $1,000,000.

N. J., New Lisbon — HOSPITAL — Bd. Control Burlington Co., Mt. Holly, plans new hospital, here. F. S. Chambers, New Lisbon, pres. Council. Engineer and architect not selected.

Pa., Altoona — HOME — Amer. Legion Camp 228, 1123 13th Ave., P. R. Kuhn, chn. building com., 809 Green Ave., plans 3 story and basement, 110 x 120 ft., steel, concrete and brick, 13th Ave. $200,000. Engineer and architect not selected.

Pa., Pittsburgh — HOSPITAL — Allegheny General Hospital, Stockton Ave. N. S., having plans prepared by Yerk & Sawyer, 100 East 42nd St., New York City, N. Y., hospital, North Ave. $5,000,000.

Pa., Pittsburgh — INSURANCE EXCHANGE—Pittsburgh Insurance Exchange, Union Natl. Bank Bldg., having plans prepared by J. M. Donn, 1219 Connecticut Ave., Wash., D. C., 21 story and basement, 60 x 120 ft., steel, brick and terra cotta, 4th Ave. $1,250,000.

Pa., Pittsburgh—OFFICE—J. I. Simon, 520 5th Ave., having sketches made by Jardine, Hill & Murdock, 347 Madison Ave., New York City, 70 x 235 ft. office, 6th Ave. and Ross St. $1,000,000.

Pa., Wilkes-Barre—Y. M. C. A., Miners Bank Bldg., having plans prepared by T. Foster, Coal Exch., 4 story, 130 x 185 ft. building. $500,000.

Va., Danville — HOTEL, STORE and THEATRE — C. B. Clemens had plans prepared by H. A. Underwood, Commercial Bank Bldg., Raleigh, N. C., and takes bids about Mar. 15, 10 story, 78 x 186 ft., rein.-con. hotel, store and theater building. $400,000. Noted Jan. 28.

N. C., Clinton—COURT HOUSE—Sampson Co. plans new court house. $200,000.

Fla., Buena Vesta (br. Miami) — THEATRE, OFFICE and STORE — Paramount Enterprises, Inc., W. A. Leach, dir., 222 13th St., Miami, having plans prepared by J. Eberson, 212 East Superior St., Chicago, Ill., and Olympia Bldg., Miami, 75 x 174 ft., brick, tile and steel, Northeast 2nd Ave. and 38th St., here. $500,000.

Fla., Miami — THEATRE, OFFICE and STORE — Paramount Enterprises, Inc., W. A. Leach, dir., 222 13th St., having plans prepared by J. Eberson, 212 East Superior St., Chicago, Ill., and Olympia Bldg., Miami, 2 story, tile, brick and steel, on 150 x 175 ft. site, West Flagler St. and 16th Ave. $500,000.

Fla., Miami Beach — THEATRE, etc. — Paramount Enterprises, Inc., W. A. Leach, dir. 222 13th Ave., having plans prepared by J. Eberson, 212 East Superior St., Chicago, Ill., and Olympia Bldg., Miami, theatre, office and store, Collins Ave. and 8th St. $650,000.

Fla., West Palm Beach—CLUB—Y. M. C. A. had plans prepared by Harvey & Clarke, 6 story, brick, steel and tile, on 147 x 181 ft. site, Olive and 4th Aves. $500,000. Foundation for same, to Newlon Stephens, West Palm Beach.

Fla., St. Petersburg—BANK—Ninth St. Bank & Trust Co., J. N. Brown, pres., having plans prepared by M. L. Elliott, Citizens Bank Bldg., Tampa, and Hall Bldg., St. Petersburg, 15 story bank. $1,000,000.

Fla., Tampa — OFFICE — Permanent Impvts., Inc., D. S. Conoley, pres., having plans prepared by B. C. Bonfoey, 12 Petteway Bldg., 10 story, 105 x 158 ft. office building, Lafayette and Grand Central Aves. $1,000,000.

Miss., Gulfport—HOTEL and OFFICE—Odd Fellows Lodge, J. Dietrich, grand master, having plans prepared by Harkness & Lockport, Gulfport, 14 story hotel and office building. $1,500,000.

Miss., Jackson — STATION — Illinois Central R.R. Co., 135 East 11th Pl., Chicago, Ill., having preliminary plans prepared 2 story and basement, rein.-con., brick, stone and tile station, here. $250,000. F. L. Judd, Grand Central Station, Chicago, Ill., engr. of buildings. A. F. Blaess, ch. engr.

O., Alliance — OFFICE and MERCANTILE—F. Wheat plans 3 story and basement office and mercantile building, 430 Main St. E. $150,000.

O., Cleveland—ADMINISTRATION, etc.—City, D. S. Blossom, dir. Pub. Welfare, having plans prepared by F. C. Warner & W. R. McCormack, Buckley Bldg., 2 story each, administration, 4 cottages and women's building, all brick, steel, steel and concrete, Warrensville Farm. $500,000.

O., Cleveland—HOSPITAL—City, D. S. Blossom, dir. Dept. Welfare, having plans prepared by A. Garfield, Natl. City Bldg., 2 story and basement, 50 x 160 ft., and 37 x 140 ft., brick, steel and concrete pavilion for tuberculosis patients, Warrensville Farm. $250,000.

O., Cleveland—LABORATORY—City, D. S. Blossom, dir. Dept. Welfare, having plans prepared by A. Garfield, Natl. City Bldg., 2 story and basement, 51 x 170 ft. diagnostic laboratory, and 3 story service and addition, brick, steel and concrete, concrete pile foundation, Scranton Rd. $400,000.

O., Cleveland—STORE and OFFICE—A. M. Allen & Co., archts., 7016 Euclid Ave., soon lets contract 2 story and basement,

See proposal advertisements on page 120, Advertising Section.

SUBWAY—CHICAGO, ILL.

Bids were opened by Sanitary District of Chicago for substructure of McCormick Road Subway, (A) M. E. White Co., 1735 Fullerton Ave.; (B) W. J. Newman Co., 19 North Curtis St.; (C) Mid-Continent Construction Co., 6 North Michigan Ave.; (D) F. & G. Construction Co., 2816 North Washtenaw Ave.; (E) James A. Sackley Co., 4608 Belmont Ave.; Bannon Construction Co., $177,435; Hoeffer & Co., $218,950. The unit bids of the lowest four and highest bidders are as follows:

	A	B	C	D	E
29,000 cu.yd. excavation	$1 65	$1 23	$1 35	$2 00	$4 40
540 cu.yd. class B concrete	23 00	25 00	24 00	18 00	39 00
2,900 cu.yd. class C concrete	13 00	15 00	14 50	16 00	21 00
268,000 lb. reinforcing bars	0525	049	055	05	06
4,050 lin.ft. concrete curb at approaches	1 50	1 90	3 50	1 00	2 50
3,350 sq.yd. concrete pavement	3 50	3 30	4 00	3 60	4 10
1,570 sq.yd. asphalt pavement	5 75	6 25	6 25	3 80	5 55
730 sq.yd. concrete sidewalks	3 20	3 00	3 50	2 50	3 50
620 lin.ft. 24-in. tile drains	2 74	7 25	4 40	4 00	5 75
420 lin.ft. 18-in. tile drains	1 80	4 00	2 65	3 00	4 85
420 lin.ft. 15-in. tile drains	1 20	3 75	1 70	2 50	3 40
770 lin.ft. 12-in. tile drains	1 05	3 00	1 30	2 00	3 25
450 lin.ft. 10-in. tile drains	1 00	2 70	1 00	1 70	2 40
450 lin.ft. 8-in. tile drains	.65	2 40	.75	1 00	2 00
1,000 lin.ft. 6-in. tile drains and smaller	.40	1 20	.60	.50	1 25
350 lin.ft. deck inlets and conductors	1 70	2 00	1 50	1 00	3 50
36 curb inlets	72 50	36 00	60 00	50 00	35 00
20 manholes	85 00	125 00	100 00	75 00	95 00
4 lawn inlets	90 00	17 00	100 00	50 00	35 00
500 lin.ft. hand railing	4 70	5 00	7 00	3 00	5 00
800 sq.yd. waterproofing for backwalls and retaining walls	.90	1 50	.75	1 00	.75
Extended totals	$154,448	$158,374	$177,435	$165,616	$281,156

Buildings—Commercial (Continued)

brick and steel, Carnegie Ave. and Fairmount Rd., for W. T. Fairmont Co., c/o D. E. Wilcox, 332 Euclid Ave. $150,000.

O., Columbus — STORE — Goldsmith Music Co., 25 East State St., having sketches made 4 story and basement, 30 x 114 ft., rein.-con., brick and steel, East Long St. $165,000. Engineer and architect not selected.

O., Salem—BANK and OFFICE—Home Savings & Loan Co. plans bank and office building, Main St. $150,000.

O., Salem—HOME—B. P. O. E. takes bids in spring, elks home, McKinley Ave. $150,000. C. F. Owsley, 669 Wick Ave., Youngstown, arch.t

O., Warren—BUSINESS—Wick Securities Co. plans rebuilding 3 story, brick and steel, plain foundation, High St., recently destroyed by fire. $200,000 loss.

O., Youngstown — GARAGE — M. W. Scheibel, archt., Realty Bldg., soon lets contract 3 story and basement, 63 x 327 ft., rein.-con., Wick Ave., for J. H. Fitch Co., F. G. King, pres., 102 Wick Ave. $300,000. Shank & Foster, 6007 Euclid Ave., Cleveland, structural engrs. E. R. Muldren, c/o owner, lessee.

Ind., Anderson — BANK and OFFICE — Anderson Bank & Trust Co., 1001 Meridian St., having plans prepared by E. P. Watkins, 1724 Main St., 5 or 6 story, 90 x 150 ft., 10th and Meridian Sts. $350,000.

Ind., Indianapolis—THEATRE—Scherer Bros., Linton, having sketches made by H. C. Callender, Greencastle, 3 story, 75 x 180 ft., brick, steel and rein.-con., here. $150,000.

Mich., Brighton—HOTEL—J. S. Murphy plans rebuilding 4 story and basement, 100 x 250 ft., rein.-con., brick and steel, plain foundation, Grand River Ave. and Main St., recently destroyed by fire. $150,000. H. V. Pipp, Ann Arbor, archt.

Mich., Detroit — OFFICE — Detroit City Gas Co., 415 Clifford St., having plans prepared by Smith, Hunchman & Grylls, 800 Marquette Bldg., 4 story, 100 x 100 ft., rein.-con., brick and steel addition, plain foundation. $175,000.

Ill., Canton — COMMUNITY HOUSE — Canton Community Assn., c/o C. H. Hippler, pres., Chamber Commerce Bldg., having preliminary plans prepared 2 and 3 story, concrete, brick and stone community house. $150,000 up.

Ill., Chicago — APARTMENT — P. F. Olson (owner and archt.), 720 Cass St., making preliminary plans and takes bids in March or April, 12 story, 50 x 125 ft., rein.-con., brick and stone, 705 Junior Terrace. $300,000.

Ill., Chicago—APARTMENT—J. Hunt, et al., 30 North Michigan Ave., making plans 16 story, 72 x 507 ft., rein.-con. and steel, Lake Shore Dr. and Pearson St. $5,000,000. Private plans.

Ill., Chicago—HOSPITAL—Alpine Hospital, A. N. Moore, pres., 6646 Coney Island Ave., having plans prepared by Hall, Lawrence, Rippel & Ratcliffe, and takes bids about Mar. 15, 6 and 7 story, 40 x 300 ft. with 50 ft. addition, rein.-con., brick, steel and stone, Ellis Ave. between 83rd and 84th Sts. $1,000,000.

Ill., Chicago—HOTEL—S. Isenstein & A. Smith, 2726 West Roosevelt Rd., having plans prepared by Duin & Eisenberg, 14 West Washington St., 6 story, 96 x 150 ft., rein.-con., brick, steel and terra cotta, Racine and Leland Aves. $650,000.

Ill., Chicago—HOTEL—Plotke & Grosby, 111 West Washington St., plans 25 story, 172 x 186½ ft. hotel, Wabash Ave. and 7th St. $5,000,000. Engineer and architect not selected.

Ill., Chicago—MEDICAL—Y. M. C. A., 19 South La Salle St., S. O. Houser, secy., having plans prepared by Berlin & Swern, 19 South La Salle St., and takes bids about Mar. 1, 10 story and basement, 125 x 147 ft., rein.-con., brick and stone, 1800-1810 West Congress St. $800,000.

Wis., Kenosha — BANK and OFFICE — First Natl. Bank, Main St., plans probably 8 story, brick, stone and concrete, plain foundation. $1,000,000. Engineer and architect not selected.

Wis., Milwaukee — LODGE — Pythian Castle, Inc., 464 11th Ave., plans 2 story and basement, 120 x 126 ft., brick and concrete, plain foundation, National Ave. $150,000. Engineer and architect not selected.

Wis., Milwaukee — THEATRE — Mal Investment Co., 425 East Water St., having revised plans prepared by Dick & Bauer, 811 State St., 2 story and basement, 162 x 240 ft., rein.-con., brick and terra cotta, plain foundation, Farwell Ave. $750,000. Noted Sept. 17.

Neb., Lincoln—DEPOT—Chicago, Burlington & Quincy R.R., 547 West Jackson Blvd., Chicago, Ill., A. W. Newton, ch. engr., plans 2 story, brick and stone passenger depot and new trackage for passenger yards, here. $700,000.

Neb., McCook — COURT HOUSE and JAIL — Red Willow Co., having plans prepared by M. L. Evans, Brandeis Bldg., Hastings, and takes bids about Apr. 1, court house and jail. $325,000. Noted Dec. 24.

Mo., Moberly—CITY HALL—Election Apr. 6, $125,000 bonds, new city hall.

Ark., Texarkana — DEPOT — Missouri-Pacific R.R. Co., Ry. Exch. Bldg., St. Louis, Mo., E. A. Hadley, ch. engr, Texas & Pacific R.R. Co., Dallas, Tex., E. A. Mitchell, ch. engr., St. Louis Southwestern R.R. Co., Tyler, Tex., W. S Hanley, ch. engr., and Kansas City Southern R.R. Co., Kansas City, Mo., A. N. Reese, ch. engr., making preliminary plans 2 story and basement, rein.-con., brick, steel and stone union passenger depot, etc., here. $1,300,000.

Tex., Ft. Worth—THEATRE and HOTEL —J. Jones, c/o Tarrant Co. Medical Bldg. Co., having plans prepared by W. C. Hedrick, 1st Natl. Bank Bldg., 22 story and basement, 100 x 200 ft., rein.-con., brick, stone and steel, West 7th, West 6th and Taylor Sts. $1,500,000. Engineer not selected.

Okla., Guthrie—DORMITORY—Masonic Grand Lodge making preliminary plans 3 story and basement, brick, Harrison St. $150,000. W. Anderson, secy. Engineer and architect not selected.

Okla., Tulsa—COURT HOUSE—Tulsa Co. making preliminary plans 3 story and basement court house, Detroit St. $300,000. Engineer and architect not selected.

Wash., Olympia—BANK and OFFICE—E. M. Chandler, engr., Olympia, takes bids about Mar. 1, 5 story, 60 x 118 ft., rein.-con., probably wood pile foundation, Washington St. and 4th Ave., for Security Bank Building Co. $220,000. A. H. Albertson, Henry Bldg., Seattle, archt. Noted Dec. 17.

Wash., Seattle — APARTMENT — E. A. Roberts, archt., Burke Bldg., rejected bids Jan. 26, 8 story and basement, 80 x 103 ft., rein.-con., brick and stone, East 43rd St. and Brooklyn Ave., for University Dist. Development Co., H. W. Soules, pres., Burke Bldg. $350,000. Will readvertise.

Ore., Portland — APARTMENT or HOTEL — W. S. Babson, c/o Peerless-Pacific Co., 235 Stark St., having sketches made apartment or hotel, 17th and Morrison Sts. $150,000.

Calif., Crescent City — HOTEL — C. S. Mabrey, 2528 41st St., Sacramento, plans fireproof hotel, here. $150,000.

Calif., Dunsmuir—HOTEL—Hotel Weed having preliminary plans prepared by G. C. Sellon & Co., California State Life Bldg., Sacramento, 2 story, brick addition. $150,000.

Calif., Glendale — APARTMENT — Owner, c/o Galvin & Woods, 512 Colorado St., had plans prepared by F. Benchley, 1023 W. M. Garland Bldg., Los Angeles, 4 story, 51 x 110 ft., 522 South Glendale Ave. $154,000.

Calif., Long Beach — AUDITORIUM — Election $600,000 bonds, auditorium.

Calif., Los Angeles—APARTMENT—J. S. Holmes & Co., 700 South La Brea Ave., had plans prepared 5 story and basement, 105 x 190 ft., rein.-con., Rossmore Blvd. $300,000. Private plans.

Calif., Los Angeles — GARAGE, STORE and OFFICE — O. H. Neher, archt., Insurance Exch. Bldg., soon takes bids part 1 and 2 story, 150 x 210 ft. ,brick, West Washington St., for M. E. Foy, c/o architect.

Calif., Los Angeles — THEATRE — C. B. DeMille, c/o M. Hunt, archt. and H. C. Chambers, associated archt., Hibernian Bldg., having plans prepared rein.-con., Vine St. $400,000.

Calif., Los Angeles — THEATRE and LODGE — Chotiner Amusement Co., c/o R. D. King, archt., Van Nuys Bldg., having plans prepared 2 story, 130 x 138 ft., brick and concrete, 1,000 seating capacity, 9th St. and La Brea Ave.

Calif., San Francisco — APARTMENT — L. J. Potter, 2240 Green St., had plans prepared by E. H. Denke, 1317 Hyde St., 8 story and basement, Vallejo St. near Laguna St. $250,000.

Calif., San Francisco—APARTMENT—Quandt & Bos, archts., Humboldt, Bank Bldg., soon take bids 15 story and base-

See proposal advertisements on page 120, Advertising Section.

Buildings—Commercial (Continued)

ment, Green St. near Jones St., for J. H. Rosseter, 945 Green St. To exceed $150,000.

Calif., San Francisco — THEATRE — Orpheum Theatres, 147 O'Farrell St., having plans prepared by G. A. Lansburgh, 140 Montgomery St., theatre in Mission Dist. $250,000.

Calif., Santa Monica—CLUB—Breakers Club, H. L. Lewis, chn. building com., had sketches made by A. B. Rosenthal, 709 Hillstreet Bldg., Los Angeles, 4 story, 125 x 220 ft., rein.-con., Marine Terrace and Ocean front. To exceed $150,000. Noted Nov. 19.

Ont., London—HOTEL—Reinart Realty & Constr. Co. (contractors), 110 East 42nd St., New York City, takes sub bids about Mar. 1, 10 story, 200 x 250 ft. hotel, Dundas St., here, for London Hotel Co., 353 Richmond St. $1,000,000. W. W. Ahlschlager, 65 East Huron St., Chicago, Ill., archt. Noted Jan. 28.

Ont., Toronto—OFFICE—Federal Building Corp., 85 Richmond St. W., plans 11 story and basement, 75 x 85 ft., rein.-con. and brick, plain foundation, Bay and Albert Sts. $500,000. Engineer and architect not selected.

Man., Winnipeg — WAREHOUSE and SHOWROOM — International Harvester Co., 606 South Michigan Ave., Chicago, Ill., plans 5 story and basement, rein.-con. and brick, Main and Sutherland Sts., here. $190,000. Private plans. J. A. Tanner, local mgr.

BIDS DESIRED

Mass., Boston — GARAGE — See "Contracts Awarded."

Conn., New Haven—APARTMENT—See "Contracts Awarded."

Pa., McKeesport—STORE—Famous Department Store, 5th and Market Sts., taking bids 5 story and basement, 38 x 140 ft., steel, brick and hollow tile, 5th and Market Sts. $150,000. P. C. Dower, Magee Bldg., Pittsburgh, archt.

Fla., Ft. Worth — HOTEL — See "Contracts Awarded."

O., Lakewood (Cleveland P. O.) — APARTMENT—C. B. Jurtz, Lorain Ave., and New York Central R.R. tracks, Cleveland, taking bids on revised plans 4 story and basement, 54 x 157 ft., brick, Love Ave. and Clifton Blvd., here. $200,000. Braverman & Havermaet, Ulmer Bldg., Cleveland, archts. Noted Sept. 3.

Ind., Muncie—HOSPITAL—Mar. 15, by Ball Memorial Hospital Bd., 3 story, 170 x 284 ft., brick, rein.-con. and plain foundation, incl. nurses home, etc., Normal City. Kibele & Garrard, Muncie, archts. Noted July 16.

Ind., Vincennes — COURTHOUSE — Feb. 20, by A. Hess, pres. Bd. Comrs. Knox Co., at office County Auditor, Courthouse, remodeling courthouse, 7th, 8th, Busseron and Bway. Sts. $175,000.

Mich., Detroit—OFFICE and GARAGE A. Kahn, archt., 1000 Marquette Bldg., taking bids 4 story, 56 x 321 ft., rein.-con. office building and 60 x 275 ft. brick and steel garage, plain fonudations, Clark Ave., for Cadillac Motor Car Co., Clark Ave.

Mich., Royal Oak (Ind. br. Detroit) — BIRD HOUSE and BEAR DEN—Mar. 1, by Donaldson & Meier, archts., 1310 Penobscot Bldg., Detroit, 2 story and basement, 95 x 137 ft., rein.-con., brick and steel bird house, plain foundation, $250,000, and 1 story rein.-con. and steel bear dens, plain foundation, $150,000, at Zoological Park, here, for Detroit Zoological Park Comn. R. F. Follett, chn.

Ill., Chicago — HOTEL — M. J. Poulsen, 6124 Kimbark Ave., taking bids 4 story, 50 x 148 ft., rein.-con., brick and stone, 6411 Kenwood Ave. $310,000. Kocher & Larson, 6405 South Halsted St., archt.

Ia., Davenport—SANITARIUM—Feb. 27, by Beuttler & Arnold, archts., 407 Grain Exch. Bldg., Sioux City, 2 story and basement, 37 x 101 ft., and 38 x 167 ft., rein.-con., brick, terra cotta and stone, for Grand Lodge A. F. and A. M. of Iowa. $160,000.

Ark., Hot Springs—HOTEL—Mar. 1, by Howe Hotel Co., Inc., c/o J. H. Howe, Rockefeller Hotel, 6 story and basement, 60 x 106 ft., rein.-con., brick, steel and terra cotta, Central and Canyon Sts. $250,000. Noted Jan. 21.

Calif., Alhambra — HOTEL, APARTMENT—Alhambra Community Corp. taking bids 5 story and basement, 90 x 175 ft., rein.-con., South Garfield Ave. and 1st St. $250,000. J. T. Payne, Western Mutual Life Bldg., Los Angeles, archt. T. Starrett, Detwiler Bldg., Los Angeles, associated archt. Noted Jan. 28.

Calif., Los Angeles—HOTEL—See "Contracts Awarded."

Calif., San Francisco — INDUSTRIAL HOME—S. O'Brien, archt., 742 Market St., taking bids 2 story and basement, Natoma St. between 4th and 3rd Sts., for Roman Catholic Archbishop of San Francisco, 1100 Franklin St. $150,000.

Calif., Woodland—STORE and HOTEL—See "Contracts Awarded."

BIDS RECEIVED

R. I., Providence—THEATRE—J. Conn, 104 Broad St., general contract superstructure 2 story, 60 x 95 ft., brick and steel, Bway. and Westminster St., from Mahoney & Tucker, 72 Weybosset St. $105,394.

N. J., Trenton—HOSPITAL—Bd. Institutions & Agencies, W. J. Ellis, acting comr., Feb. 8, general contract psychopathic building, nurses home, physicians home, convalescent building, etc., at New Jersey State Hospital, from W. C. Ehret, Trenton Trust Bldg., $510,000; heating and plumbing, from J. T. Evans, 158 South Main St., Wilkes-Barre, Pa., $88,219 and $58,409 respectively. Noted Jan. 21.

Ia., Mason City—Y.M.C.A., new building, from Madsen Constr. Co., 848 Builders Exch. Bldg., Minneapolis, Minn., $172,250.

Calif., Los Angeles—WAREHOUSE—C. F. Plumner, archt., 1108 Story Bldg., 2 story (ultimately 4 story) and basement, 95 x 240 ft., rein.-con., 2nd and Vignes Sts., from Baruch Corp., I. W. Hellman Bldg., for Challenge Cream & Butter Assn., 1219 South San Pedro St. $137,990. Noted Jan. 14.

Calif., San Jose—THEATRE—Weeks & Day, archts., 315 Montgomery St., San Francisco, rein.-con. and steel, 1,500 seating capacity, South 1st St., from Barrett & Hilp, 918 Harrison St., San Francisco, for West Coast Theatres, Inc., Knickerbocker Bldg., Los Angeles. Approximately $265,000. Noted Jan. 28.

CONTRACTS AWARDED

Mass., Boston—GARAGE—Y. D. Yard Serv. Garages, Inc., will build 8 story and basement, rein.-con., brick and steel, Park Sq., by day labor. $2,250,000. Krokyn & Browne, 220 Devonshire St., archts.

Conn., New Haven—APARTMENT—F. Pamone, 543, Savin Ave., West Haven, will build 4 story, 85 x 85 ft., brick and tile, plain foundation, Chapel St., here, by day labor. $150,000. J. Della Valle, 341 State St., archt.

N. Y., Brooklyn — EXCHANGE — New York Telephone Co., 15 Dey St., New York City, 2 story, brick, steel and stone addition, plain foundation, Ocean Ave., here, to W. L. Crow Constr. Co., 103 Park Ave., New York City. Archts. est. $450,000. Noted June 25.

N. Y., Brooklyn—GARAGE—S. C. LaVence, Inc., c/o Magnuson & Kleinert, engrs. and archts., 250 Park Ave., New York City, 2 story, 100 x 170 ft., rein.-con., brick and steel, plain foundation, Bedford Ave., here, to I. H. Meyer, 590 Sterling Pl. Archts. est. $200,000.

N. Y., Brooklyn—OFFICE—One Hundred Forty-Two Joralemon St. Corp., c/o M. E. Freehof, engr. and archt., 135 East 43rd St., New York City, 14 story, brick, steel and stone, plain foundation, 142 Joralemon St., here, to Herzig & Solomon, 415 Lexington Ave., New York City. Archts. est. $800,000.

N. Y., New York—APARTMENT—J. J. Summers, Times Bldg., brick, steel and stone, plain foundation, Madison Ave. and 67th St., to T. A. O'Hare Co., 270 Madison Ave. Archts. est. $750,000.

N. Y., New York—APARTMENT HOTEL—J. H. Hickey, c/o R. Candela, engr. and archt., 200 West 72nd St., brick, steel and stone, plain foundation, West 58th St., to J. Lowry, Inc., 270 Madison Ave. Archts. est. $275,000.

N. Y., New York — OFFICE — Herogal Constr. Co., c/o G. and E. Blum, engrs. and archts., 505 5th Ave., will build brick, steel and stone, plain foundation, 315 West 36th St., $1,200,000. Work will be done by separate contracts under architect's supervision.

N. Y., New York — THEATRE — A. Leursohn, 51 Bway., 1 story, brick, steel and stone, plain foundation Bway. and 170th St., to M. Shapiro & Sons, 1540 Bway. Archts. est. $1,000,000.

N. J., Jersey City—JAIL—Hudson Co., general contract 3 story, brick and steel, plain foundation, Newark Ave. and Willow Court, to W. H. and F. W. Cane, Inc., 10 Journal Sq., $1,297,228; plumbing, to E. H. Moore Co., 733 Communipaw Ave., $53,093; heating, etc., to J. H. Cooney, 210 North 4th St., Harrison, $38,900; and electrical work, to W. J. Coleman, 20 Willow Court, $29,650. Grand total $1,418,931. Noted Feb. 11.

Pa., Monongahela — BANK — Morgan French & Co., archts., 19 West 44th St., New York City, N. Y., 3 story and basement, 60 x 80 ft. bank, West Main and 2nd Sts., here, to Cuthbert Bros., Bessemer Bldg., Pittsburgh, for Monongahela City Trust Co. Archts. est. $250,000. Noted Feb. 4.

Md., Baltimore — HOME — Bureau Catholic Charities, E. L. Leonard, 415 Cathedral St., 3 story and basement, 40 x [illegible] ft. home for aged, brick and steel, plain foundation, Roland St. to Frainie [illegible] & Haigley, 19 West Franklin St., $1[illegible]000. Noted Feb. 11.

N. C., Greensboro—UNION STATION—Southern R.R., B. Herman, ch. engr. 1360 Penn. Ave., Wash., D. C., large Union Depot, here, to Consolidated Eng. Co., Calvert Bldg., Baltimore, Md. Engrs. est. $1,000,000.

Fla., Fort Myers — HOTEL — [illegible] & Zimmerman Eng. & Constr. Co., 16th and Walnut Sts., Phila., Pa., will build 10 story, 150 x 150 x 150 ft., brick, Anderson Ave. and McGregor Blvd., here, by separate contracts, for Fort Myers Community Hotel Corp., c/o C. W. Russell. $650,000.

Fla., Homestead—HOTEL—Palm Hotel Co., 3 story, brick and rein.-con., on 100 x 150 ft. site, Kings Highway and Krome Ave., to F. T. Ley, Vail Arcade, Miami, and 1134 Massachusetts Ave., Boston, Mass., approximately $365,000. Noted Jan. 21.

Fla., West Palm Beach—APARTMENT—Webber, Cook & Harsha, Inc., 3 story, rein.-con. and hollow tile apartment, to R. J. and F. W. Blandford, West Palm Beach. Archts. est. $400,000.

La., New Orleans—HOSPITAL—Sisters of St. Joseph, 6 story and basement, rein.-con., steel and stone, pile foundation, Apricot, Fig, Pine and Burdette Sts., to G. J. Glover Co., Inc., Whitney Bldg. Archts. est. approximately $300,000.

Ky., Newport — OFFICE — Newport Finance Corp., Newport Natl. Bank Bldg., 7 story and basement, 50 x 67 ft., rein.-con. and brick, plain foundation, 4th and York Sts., to M. Penker & Son, 123 Valencia St., Cincinnati, O., $150,000.

O., Cincinnati — COMMUNITY — Wise Center, Reading Rd., 3 story and basement, rein.-con. and brick, plain foundation, Reading Rd., to David Gordon Building Co., Burnet St., $400,000. Noted Jan. 14.

O., Cleveland — COMMERCIAL and APARTMENT — Brighton Realty Co., c/o J. Larongre, Williamson Bldg., 2 story and basement, 100 x 140 ft., brick, West 112th St. and Lorain Ave., to C. Peterson Constr. Co., 4500 Euclid Ave. Archts. est. $150,000.

O., Massillon—RECEIVING COTTAGE—Dept. Pub. Welfare, Columbus, 3 and 4 story and basement, 79 x 135 ft., brick and steel, to R. H. Evans Co., 1010 Atlas Bldg., Columbus. Archts. est. $150,000.

Ind., Indianapolis—WAREHOUSE—Fishback Co., F. S. Fishback, pres., 102 South Pennsylvania St., general contract 5 story and basement, 62 x 193 ft., brick, steel and rein.-con., McCarthy and Delaware Sts., to L. Colvin, 16th and Meridian Sts. Archts. est. $200,000.

Mich., Detroit — HOTEL — L. Kamper, Bldg., 15 story and basement, 112 x 246 ft., rein.-con., brick and steel, plain foundation, Woodward Ave. and Adelaide St., to O. Misch Co., 159 East Columbia St., for P. Kamper & R. L. Spitzley, Kamper Bldg. Archts. est. $2,500,000.

Mich., Detroit—OFFICE—Calvert Lithographing Co., Grand River Ave., 3 story and basement, 45 x 130 ft., rein.-con., brick and steel, plain foundation, to A. A. Albrecht Co., Penobscot Bldg. Archts. est. about $150,000.

Mich., Detroit—OFFICE and FACTORY—Wayne Color Plate Co., 1036 Wayne St., 4 story, 45 x 163 ft., rein.-con. and brick, plain foundation, Burroughs Ave., to A. A. Albrecht Co., 1130 Penobscot Bldg. Archts. est. $160,000.

Ill., Chicago—APARTMENT—McNally & Quinn, archts., 10 South La Salle St., masonry and concrete contract 15 story and basement, 100 x 166 ft., rein.-con., brick and steel, 424 Melrose St., to J. A. Lundstrom Co., 5153 North Clark St., for Four Hundred Twenty-Four Building Corp., c/o W. C. Bannerman & Co., 77 West Washington St. Archts. est. $2,100,000. Noted Jan. 21.

Ill., Chicago—APARTMENT—F. T. Hoyt, et al., 160 North La Salle St., general contract 15 story and basement, 100 x 125 ft., rein.-con., brick, steel and stone, 1209-17 Astor St., to Lundoff-Bicknell Co., Keith Bldg., Cleveland, O. Archts. est. $1,500,000. Noted Dec. 10.

Ill., Chicago—BANK and OFFICE—Allied State Bank, 10 North Clark St., masonry and carpentry contract 6 story, 61 x 125 ft., rein.-con., brick and terra cotta, 329-331 South Wood St., to Christensen Constr. Co., 2054 North Cicero Ave. Archts. est. $325,000. Noted Oct. 1.

Ill., Chicago—HOTEL—A. Neilsen, 7845 South Peoria St., masonry and concrete contract 4 story and basement, 89 x 107 ft., rein.-con., brick and steel, 736-748

See proposal advertisements on page 120, Advertising Section.

Buildings—Commercial (Continued)

Englewood Ave., to Bundoe Bros., 1071 East 75th St. Archts. est. $400,000.

Ill., Chicago—HOTEL—Friedman Constr. Co., c/o H. D. Friedman, 105 North Clark St., masonry contract Dorian Hotel, 3 story, 150 x 158 ft., 4545-4555 Woodlawn Ave., to S. Monson, 7922 Laflin St. Archts. est. $300,000.

Ill., Chicago — OFFICE and STORE — A. S. Alchuler, archt., 28 East Jackson Blvd., general contract 23 story and basement, 95 x 130 ft., brick, steel and stone, Michigan Ave. and Lake St., to Paschen Bros., 111 West Washington St., for Michigan-Lake Building Corp., F. T. Hoyt, pres., 160 North La Salle St. Archts. est. $1,500,000. Noted Jan. 14.

Ill., Cicero — THEATRE, STORE and APARTMENT—S. J. Gregory, et al., c/o R. Levine & Co., 822 West 70th St., Chicago, masonry and carpentry contract 3 story and basement, 131 x 160 ft., rein.-con., brick and terra cotta, 25th St. and 53rd Ave., to J. McHugh, 7033 South Morgan St., Chicago, Noted Sept. 17.

Calif., Los Angeles — HOTEL — F. W. Siegel, Ritz Hotel, will build 6 story and basement, rein.-con., Figueroa St. near 6th St., by day labor. $250,000.

Calif., Los Angeles — OFFICE — Forve-Pettebone Co., 816 South Figueroa St., 11 story, 80 x 155 ft., rein.-con., 8th and Beacon Sts., to Stanton, Reed & Hibbard, 620 Metropolitan Bldg., $650,000.

Calif., Los Angeles — STORE and HOTEL — Business Dist. Development Co., Merchants Natl. Bank Bldg., 10 story, 100 x 146 ft., rein.-con., 6th and San Pedro Sts., to Kinne & Westerhouse, 220 Black Bldg., $600,000.

Calif., Los Angeles — STORE, OFFICE and AUDITORIUM—Forve-Pettebone Co., 816 South Figueroa St., 11 story and basement, Beacon and 8th Sts., to Stanton, Reed & Hibbard, Metropolitan Bldg., to exceed $500,000.

Calif., Sacramento—WAREHOUSE, OFFICE, etc.—White Co., 11th and Mission Sts., San Francisco, 1 story, brick, 13th and C Sts., to G. Wagner, Inc., 181 South Park St., San Francisco, $45,000.

Calif., Woodland—STORE and HOTEL—E. L. Younger, et al., will build 2 story, rein.-con., Main St., by day labor. $150,000. W. H. Weeks, 369 Pine St., San Francisco, archt. Noted Oct. 29.

Buildings—Educational Religious

PROPOSED WORK

Mass., Melrose (Ind. br. Boston) — SCHOOL and HEALTH UNIT — City, School Comn., having plans prepared by C. R. Greco, 11 Beacon St., Boston, 4 story and basement, 58 x 120 ft., brick and steel school and health unit. $200,000.

Mass., Norwood — SCHOOL — St. Catherine's School, J. F. Doherty, pastor, having revised plans prepared by McLaughlin & Burr, 88 Tremont St., Boston, 2 story and basement, brick and steel, Nahatan St. $150,000. Noted Dec. 17.

Mass., Springfield—PARISH HOUSE—Trustees Hope Congregational Church having plans prepared by B. H. Seabury, 21 Besse Pl., 3 story, brick and steel, State St. $175,000.

Mass., Worcester — CHURCH — Finnish-Swedish Lutheran Church, E. Johnson, pastor, 21 Stanton St., plans brick, steel and stone church. $150,000. Engineer and architect not selected.

Mass., Worcester — SCHOOL — State Normal School, State House, Boston, plans brick and steel addition to state normal school, here. $150,000. Engineer and architect not selected.

Mass., Worcester—SCHOOL—City, Pub. Building Dept., having plans prepared by J. Rustigian, 405 Main St., 2 story and basement, brick and steel, Nelson Pl. $150,000. Noted Feb. 4.

Mass., Worcester—SCHOOL—City, Pub. Building Dept., City Hall, having plans prepared by F. Cutting, 44 Front St., 2 story and basement, brick and steel, May St. $150,000.

Conn., Bridgeport — CHURCH — First Methodist Church, G. S. Hawley, chn. com., 815 Main St., plans 1 story, brick and steel, Golden Hill St. $250,000. Engineer and architect not selected.

Conn., Bridgeport — SCHOOL — St. Stephens Roman Catholic Parish, S. F. Chernitsky, pastor, rescinded contract 3 story and basement, 115 x 120 ft., brick and stone, Wordin Ave. $200,000. Noted Sept. 3.

Conn., Danbury — DORMITORY — State Normal School, F. M. Salmon, comptroller, State House, Hartford, having plans prepared by O. C. S. Ziroli, 165 State St., Bridgeport, brick and steel dormitory for girls, here. $150,000. Noted May 28.

Conn., Hamden (br. New Haven) — SCHOOL — Town, School Bd. Com., plans 2 or 3 schools, two 8 room and possibly 16 room, Pine St. and Dixwell Ave. To exceed $150,000. Engineer and architect not selected.

Conn., Hartford — APARTMENT — Lapuck Bros., 89 Sharon St., having plans prepared by Berenson & Moses, 30 Allyn St., 4 story, 100 x 115 ft., brick, steel and stone, Charter Oak Pl. $250,000.

Conn., Hartford—SYNAGOGUE—Agudus Achim Congregation Building Com., D. Traub, chn., having preliminary sketches made 3 story, stone, Oakland Terrace. $200,000. Engineer and architect not selected.

Conn., New Britain — SCHOOL — City, J. M. Halloran, chn. school com., having plans prepared by M. J. Unkelbach, 52 Main St., Nathan Hale School, 3 story and basement, brick and steel, Lee and Tremont Sts. $200,000.

Conn., Plainville — HIGH SCHOOL — Town, L. S. Mills, supt. schools, having plans prepared by Towner & Seelew, 363 Main St., Middletown, 3 story, brick, East St. $165,000. Noted July 9.

Conn., Waterbury—CHURCH—Maginnins & Walsh, archts., 100 Boylson St., Boston, soon lets contract 1 story, 140 x 200 ft., rein.-con. stone and steel, plain foundation, West Main St., for Immaculate Conception Roman Catholic Church, 98 East Main St. $500,000.

Conn., Waterbury — SCHOOL — St. Margaret's School, J. N. Lewis, chn., will not construct new school. $150,000. Project abandoned. Noted Jan. 21.

N. Y., Brooklyn—PAROCHIAL SCHOOL—St. Francis Xavier Roman Catholic Church, c/o Murphy & Lehman, engrs. and archts., 159 Remsen St., soon takes bids 4 story, brick, steel and stone, plain foundation, President St. $200,000.

N. Y., Brooklyn — SYNAGOGUE and SCHOOL — Talmud Torah of Crown Heights, c/o I. M. Fenichel, engr. and archt., 273 West 43rd St., New York City, having plans prepared 3 story, brick, steel and stone, plain foundation, Crown St. near Nostrand Ave., here. $200,000.

Pa., Selinsgrove — LIBRARY — Susquehanna University, Selinsgrove, L. P. Young, pres. Bd. Directors, Elklick, plans 3 story and basement, approximately 60 x 100 ft., brick, on campus. $150,000. Engineer and architect not selected.

Md., Owings Mills—DORMITORY—W. W. Emmart, archt., Union Trust Bldg., Baltimore, rejected bids Feb. 3, 2 story and basement, 60 x 150 ft., dormitory, here, for Rosewood State Training School. $150,000. Noted Jan. 21.

O., Alliance — HIGH SCHOOL — City purchased 10 acre site and plans Junior High School, 3 story and basement, also athletic field.

Ind., Indianapolis—HIGH SCHOOL—Bd. School Comrs., 150 North Meridian St., rejected bids Jan. 20, Shortridge High School, 34th St. between Meridian and Pennsylvania Sts. J. E. Kopf & Woolling, 403 Indiana Pythian Bldg., archts. and engrs. H. Foltz, 704 J. F. Wild Bldg., consult. archt. Noted Jan. 7.

Wis., Milwaukee—CONVENT, etc.—E. Brielmaier & Sons, archts., 432 Bway., preparing preliminary plans 4 story and basement, 200 x 275 ft., rein.-con. and brick, convent, power house and laundry, plain foundation. Owner's name withheld.

Ia., Cedar Rapids—GYMNASIUM—Coe College, S. N. Harris, bus. mgr., postponed construction 3 story, rein.-con., brick and stone gymnasium, $175,000, and rein.-con. stadium, $200,000. Noted Nov. 19.

N. D., Grand Forks — GYMNASIUM — Election Feb. 19 (extended date), $150,000 bonds, 3 story and basement, rein.-con. and brick addition to school, for Bd. Educ. J. B. DeRemer, 408 Security Bldg., archt. Noted Dec. 31.

Mo., Columbia — SCHOOLS — Bd. Educ. takes bids about Mar. 1, High School, 2 story, 194 x 214 ft., rein.-con., brick and stone, 7th St. and North Blvd., also Benton Grade School, 2 story, 115 x 165 ft., Tipley and Hinkson Sts. W. B. Ittner, 911 Locust St., St. Louis, archt. Noted Dec. 31.

Mo., Mexico — HIGH SCHOOL — Bd. Educ., T. J. Williams, secy., soon takes bids 2 story and basement, rein.-con. and brick high school. $250,000. B. C. Elliott, Mexico, archt. Noted Dec. 5.

Ark., Jonesboro — DORMITORY—Jonesboro College, J. N. Mallory, pres., having preliminary plans prepared 3 story and basement, concrete and brick dormitory. $150,000. Private plans.

Tex., San Angelo—SCHOOL, etc.—Election Mar. 13, $250,000 bonds, Ward School, 2 or 3 story, rein.-con., brick and stone, and improving present buildings; also $250,000 bonds, Junior College. Phelps & De Wees, 718 Gunter Bldg. San Antonio, archt. Noted Feb. 4.

Calif., Beverly Hills — SCHOOL — Bd. Trustees Beverly Hills School Dist., having plans prepared by Gable & Wyant, 634 South Western Ave., Los Angeles, (1st unit) 6 story and basement, Beverly Vista School site. $150,000. Total $310,000. Noted Jan. 21.

Calif., Centerville—HIGH SCHOOL—Defeated $225,000 bonds, high school addition, incl. gymnasium, auditorium, shops, corridor connections, etc., for Washington Union High School Dist. Noted Jan. 28.

Calif., Claremont — CHURCH — Community Church of Claremont, A. P. Davis, rector, plans (1st unit), rein.-con. church. $150,000. Total $275,000. Allison & Allison, Hibernian Bldg., Los Angeles, archts.

Calif., Los Angeles — HIGH SCHOOL — City having plans prepared by Noerenberg & Johnson, Ry. Bldg., Luther Burbank Junior High School, 4 buildings, 1 and 2 story, brick and rein.-con. $375,000.

Calif., Stockton — MAUSOLEUM — St. Marys Catholic Church, W. E. McGough, pastor, 203 East Washington St., plans (1st unit) rein.-con. and marble, San Joaquin Cemetery. $150,000. Engineer and architect not selected.

Calif., Van Nuys—HIGH SCHOOL—Los Angeles Bd. Educ. rejected bids Jan. 13, 2 story, 75 x 225 ft. domestic science building, 1 story, 72 x 223 ft. manual arts building, and 1 story, 30 x 40 ft. boiler house, here. $160,000. Will readvertise. Noted Jan. 28.

Ont., Belleville — COLLEGIATE — Bd. Educ., having plans prepared by Thomson & Johnson, 224 Front St., 3 story and basement, rein.-con., brick and steel, plain foundation. $325,000.

Ont., St. Catherines—COLLEGE—Ridley College, having plans prepared by Marani & Parsley, 219 Bay St., Toronto, 3 story, rein.-con., brick and steel addition, plain foundation. $300,000.

Ont., Toronto — HIGH SCHOOL COMMERCE — Bd. Educ., 155 College St., having plans prepared by C. E. Dyson, c/o owner, 2 or 3 story, rein.-con., brick and steel, plain foundation, West End. $375,000.

Ont., Toronto—SCHOOL—Bd. Educ., 155 College St., having plans prepared by C. D. Dyson, c/o owner, 2 story and basement, rein.-con., brick and steel addition, plain foundation, Jarvis St. $150,000.

BIDS DESIRED

Mass., Quincy (Ind. br. Boston)—HIGH SCHOOL — Feb. 26 (extended date), by City, Pub. Building Dept., City Hall, superstructure 3 story and basement, 82 x 134 ft., and 70 x 170 ft., brick, steel and stone, Hancock St. $500,000. F. I. Cooper, 983 Main St., Hartford, archt.

Mass., Walpole—HIGH SCHOOL—Mar. 1, by Town, F. L. Mansur, supt. schools, 2 story and basement, brick and steel high school. $300,000. R. M. Stowell, 184 Boylston St., Boston, archt. Noted Sept. 17.

Conn., Stamford—SCHOOL—City, C. H. Martin, chn. School Com., taking bids 3 story and basement, 20 room, brick and steel, Lockwood Ave. $300,000. Allen & Chapman, 315 5th Ave., New York City, archt.

Conn., Waterbury—CHURCH—Feb. 23, by Immaculate Conception Church, W. J. McGurk, pastor, 1 story and basement, 140 x 191 ft., brick, steel and stone, West Main St. $250,000.

N. J., Maplewood (br. South Orange) — HIGH SCHOOL—Mar. 8, (extended date), by Bd. Educ. School Dist. of South Orange and Maplewood, new high school, Parker Ave., here. M. M. Pryor, dist. clk.; adv. E. N.-R. Feb. 18. Noted Feb. 11

Pa., Erie — SCHOOL — Feb. 25, by Bd. Educ., 2 story, 18 room, brick, steel and concrete addition to Wayne School. $250,000. W. W. Myers, Library Bldg., archt. Mayer & Valentine, Plymouth Bldg., Cleveland, O., heating engr. Noted Dec. 24.

Pa., Moylan—ACADEMY—Feb. 23, by E. G. Perrot, archt., 1211 Arch St., Phila., 3 story and basement, 77 x 92 x 188 ft. and arcade, brick and stone, plain foundation, incl. gymnasium and chemical laboratory, for Sisters Notre Dame.

Pa., Phila.—COLLEGE, etc.—Feb. 27, by St. Josephs College, A. G. Brown, pres., 17th and Stiles Sts., 2½ story and basement, 184 x 241 ft., irregular shaped, rein.-con., brick, steel and stone college, etc., 54th St. and city line. $1,500,000. F. F. Durand, 1220 Locust St., archt. Noted Sept. 17.

Pa., Phila. — SYNAGOGUE and COMMUNITY CENTER — Feb. 22, by A. J.

See proposal advertisements on page 120, Advertising Section.

Buildings—Educational, Religious (Cont.)

Sauer Co., archts., 1505 Race St., 3 story and basement, 108 x 179 ft., brick and steel, plain foundation, 63rd and Ludlow Sts., for West Phila. Jewish Community Center, c/o architect.

Fla., Daytona—SCHOOLS—Mar. 4, by Bd. Pub. Instruction Volusia Co. (DeLand) erecting and completing high school, here, H. M. Griffin, 512½ Main St., Daytona Beach, archt.; also constructing grammar school, here, W. J. Carpenter, 1st Natl. Bank Bldg., DeLand, archt.

Miss., Laurel—HIGH SCHOOL—Feb. 24, by Laurel City School, R. H. Watkins, supt., at Mayors office, Junior High School, 1 and 2 story, 150 x 200 ft., rein.-con., brick and hollow tile. $150,000. P. J. Krouse, Meridian, archt. Noted Feb. 4.

O., Kent—TRAINING SCHOOL—State Normal School, Kent, taking bids 3 story and basement, 65 x 274 ft., concrete, brick and steel school. $350,000. Ronan & Ingleson, 1614½ North High St., Columbus, archts.

Mich., Melvindale (Dearborn P. O., R. F. D. 2)—SCHOOL—Mar. 1, by Van Leyen, Schilling & Keogh, archts., 3440 Cass Ave., Detroit, 2 story and basement, 110 x 200 ft., rein.-con., brick and steel, plain foundation, here, for Bd. Educ. $150,000. Noted Jan. 7.

Wis., Milwaukee — CONTINUATION SCHOOL — Mar. 1, by A. O. Muehl, secy. Bd. Industrial Educ., 7th and Prairie Sts., structural steel for (3rd unit) 6 story and basement, 143 x 268 ft., brick and concrete, plain foundation, State St. $1,000,000. Van Ryn & De Gelleke, 114 Grand Ave., archts. Noted Jan. 21.

Minn., Rochester — SCHOOL, etc. — Feb. 25, by Bd. Educ., 3 story and basement, 64 x 244 ft., rein.-con., brick and stone school, and power plant with three 204 hp. boilers, softeners, etc. $300,000. H. H. Crawford, Rochester, archt. Noted Nov. 26.

Neb., Omaha—HIGH SCHOOL—Feb. 25, by Bd. Educ., 2 story and basement, 210 x 367 ft., 52nd and Maple Sts. $620,000. J. and A. McDonald, Standard Oil Bldg., archts. Noted June 25.

Mo., St. Louis—CHURCH—Feb. 23, H. P. Hess, archt., 1237 North Taylor Ave., 2 story and basement, 60 x 164 ft., rein.-con., brick and stone, Carter and Marcus Sts., for St. Engelberts Parish, c/o A. J. Von Brunn, pastor, 4740 Carter Ave. $200,000.

Tex., Ft. Worth—HIGH SCHOOL—Feb. 23, by Bd. Trustees Ft. Worth Independent School Dist., 3 story, rein.-con., brick and stone, Nashville St. and Ave. B Polytechnic. W. G. Clarkson & Co., 610-11 1st Natl. Bank Bldg., archts.

Okla., Enid—CHURCH—Feb. 22, by First Presbyterian Congregation, 3 story and basement, 18 by 136 ft., rein.-con., steel and stone. $150,000. R. W. Shaw, Masonic Temple Bldg., archt. Noted July 30.

Wash., Olympia—HIGH SCHOOL—Mar. 3, by School Bd., 3 story and basement, 77 x 150 ft., brick and steel addition, wood pile foundation, Washington St. $180,000. J. H. Wohleb, Olympia, engr. and archt. Noted Jan. 28.

BIDS RECEIVED

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., general contract 2 story and basement, 110 x 200 ft., rein.-con., brick and steel, plain foundation, St. Aubin Ave., from Corrick Bros., 507 Owen Bldg., $202,000; heating system, from Drake Avery Co., 210 State St., $59,626. Noted Jan. 28.

CONTRACTS AWARDED

Conn., Wallingford — SCHOOL — City, School Com., City Hall, 6 rooms of proposed 12 room, 2 story and basement, 70 x 100 ft., brick and steel, East Center St., to Loucks & Clarke, Ernest St., $49,988. Noted Dec. 10.

Pa., Avalon (Pittsburgh P. O.)—HIGH SCHOOL—School Dist., 2 story and basement, 96 x 113 ft., irregular shaped, brick and steel, California Ave., to J. G. Fullman Co., E. E. Savings & Trust Building, Pittsburgh. Archts. est. $250,000. Noted Jan. 28.

Pa., Phila. — SCHOOL — St. Francis De Sales Parish, Springfield Ave. and Farragut Terrace, 4 story and basement, 69 x 121 ft., rein.-con. and stone addition, plain foundation, to Farrell-Roth Co., 123 South 21st St. Archts. est. $250,000.

Pa., Phila. — SCHOOL — J. D. Cassell, supt. buildings, 19th and Chestnut Sts., Junior High School, 4 story and basement, 159 x 268 ft., brick and concrete, plain foundation, 66th and Elmwood Sts., general contract, to Cramp & Co., Denckla Bldg., $1,028,307; heating and plumbing, to S. Faith & Co., 2427 Pennsylvania Ave., $140,857; electrical work, to E. F. Goldhahn, 8619 Crothers St., $63,552, for Bd. Educ. Grand total $1,232,716. Noted Feb. 11.

Pa. Phila.—SCHOOL—J. D. Cassell, supt. buildings, 19th and Chestnut Sts., Junior High School, 4 story and basement, 159 x 268 ft., rein.-con. and brick, plain foundation, 26th and Cumberland Sts., general contract to Cramp & Co., Denckla Bldg., $1,011,956; plumbing, to L. J. Sommer & Son, 2436 Brown St., $45,934; heating, to S. Faith & Co., 2427 Pennsylvania Ave., $93,993; electrical work, to E. F. Goldhaln, 8619 Crothers St., $61,738, for Bd. Educ. Grand total $1,213,621. Noted Feb. 11.

La., New Orleans — SCHOOL — E. A. Christy, archt., City Hall Annex, 3 story, brick and stone, Rocheblave and Onzago Sts., to T. H. Brockman, Hibernia Bldg., for Orleans Parish School Bd. $290,000. Noted Jan. 21.

O., Newton Falls—SCHOOL and COMMUNITY HOUSE—Bd. Educ., H. C. Wolcott, clk., 1 and 2 story, brick, steel and concrete, to Laird Bros. Constr. Co., Ashtabula. Archts. est. $150,000.

Neb., Lincoln—SCHOOL—Bd. Educ., L. G. Ludlam, secy., Park Grade School, 2 story and basement, rein.-con., brick and stone, 9th and F Sts., to E. Rokohr & Son, Lincoln. $293,700. Noted Sept. 10.

Neb., Lincoln—SCHOOL—Bd. Educ., J. G. Ludlam, secy., Junior High School, 3 story and basement, 191 x 314 ft., brick, rein.-con. and stone, and 1 story shop, 22nd St., to Olson Constr. Co., Chapin Bldg., Lincoln, $475,000. Noted Dec. 31.

Calif., Oakland—SCHOOL—City, general contract 2 story, concrete addition, to Prescott School, to Lawton & Vezey, 354 Hobart St., $112,060. Noted Feb. 4.

Calif., Oakland—SCHOOL—City, general contract fireproof annex to Elmhurst School, here, to W. G. Thornalley, 354 Hobart St., $138,600. Noted Jan. 7.

Federal Government Work

PROPOSED WORK

D. C., Wash.—Hospital and Recreation—U. S. Veterans Bureau, Arlington Bldg., soon takes bids permanent hospital and recreation buildings, for Walter Reed Hospital.

Fla., Pensacola—Fuel Oil Storage, etc.—Spec. 5107—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids Feb. 10, fuel oil and gasoline storage tanks, for Naval Air Station, here. Will readvertise. Noted Jan. 28.

Mich., Muskegon—Breakwater—U. S. Engineers Office, War Dept., Wash., D. C., plans arrowhead breakwater, outside existing piers, etc., here.

Ore., Astoria—Quarters—Spec. 5170—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans double quarters at Naval Radio Station, here. L. E. Gregory, ch. bureau.

BIDS DESIRED

Mass., South Boston (sta. Boston)—Spec. 5185—Mar. 3, by Pub. Wks. Office, Navy Yard, Boston, dredging at Naval Dry Dock, here. L. E. Gregory, ch. bureau.

Pa., Erie—Remodeling—Mar. 3, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

Pa., Phila.—Steel Work—Mar. 1, by Q. M. I. Depot, 21st St. and Oregon Ave., erecting structural steel work and furnishing steel sheeting, etc., for extension boiler house, here; adv. E. N.-R. Feb. 18.

Pa., Phila.—Tunnel, etc.—Feb. 26, at Q. M. I. Depot, 21st St. and Oregon Ave., concrete tunnel, excavation, etc., for boiler house extension, here; adv. E. N.-R. Feb. 18.

Ky., Louisville—Dam—Mar. 15, by U. S. Engineer Office P. O. Box 72, constructing Dam 51, Ohio River, and abutment at Golconda, Ill.; adv. E. N.-R. Feb. 18.

O., Toledo—Dredging—Mar. 17, by U. S. Engineer Office, Detroit, Mich., dredging in Maumee Bay Channel, here; adv. E. N.-R. Feb. 18.

Ind., Terre Haute—Post Office—Mar. 10, by Treas. Dept., at office Supervising Archt., Wash., D. C., constructing post office and court room, here.

Mich., Jackson—Post Office—Mar. 8, by Treas. Dept. at office Supervising Archt., Wash., D. C., extension to U. S. Post Office and Court House, here; adv. E. N.-R. Feb. 18.

BIDS RECEIVED

Wyo., Cheyenne—Additions—Treas. Dept. at office Supervising Archt., Wash., D. C., Feb. 10, construction mezzanine floor, store room, vault extensions, etc., at U. S. Public Building, here, from C. Weitz Sons, 719 Mulberry St., Des Moines, Ia., $2,679. Noted Jan. 28.

Tex., Galveston—Dredging—U. S. Engineer Office, Feb. 3, dredging channel between Port Aransas and Corpus Christi, from Atlantic, Gulf & Pacific Co., 15 Park Row, New York City, N. Y., at $0.08 per cu.yd., total $262,020. Noted Jan. 7.

Tex., Galveston—Pipe—U. S. Engineer Office, 300 lengths shore pipe, from Kane Boiler Wks., 2718 C St., $11,536.

Utah, Hyrum — Drilling — Bureau Reclamation, Salt Lake City, drilling (a) 1,000 lin.ft. or (b) 2,500 lin.ft. for foundations at reservoir site, Cache Valley Project, on Little Bear River, here, from E. J. Longyear Exploration Co., 710 Security Bldg., Minneapolis, Minn., (a) $3,900 and (b) $1,750.

Calif., Eureka—Radio Tower—Spec. 5161—Bureau Yards & Docks, Navy Dept., Wash., D. C., Feb. 10, steel and concrete radio tower at Naval Radio Station, here, from R. E. Bergund, Beverly Hills, (1) $3,900 and (3) $2,900. Noted Jan. 14.

Calif., Santa Rosa—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., Feb. 15, remodeling and enlarging Post Office, here, from H. Papenhausen, 532 3rd Ave., San Francisco, $16,000. Noted Jan. 28.

CONTRACTS AWARDED

Pa., Phila. — Barges — U. S. Engineers Office, 1505 Race St., 3 steel barges, to Wheeler Shipyard, Coney Island Creek and Harway Ave., Brooklyn, N. Y. $6,185.

Ga., Savannah—Barges—U. S. Engineer Office, 3 steel barges, to Bethlehem Ship Building Corp. Ltd., 25 Bway., New York City, $35,700. Noted Jan. 7.

Fla., Jacksonville—Storehouse, etc.—U. S. Engineer Office, storehouse, road, etc., at dredge depot, to C. T. Fogle Constr. Co., Jacksonville, $23,363. Noted Jan. 14.

Ala., Mobile—Water Pipe—Treas. Dept. at office Supervising Archt., Wash., D. C., submarine water pipe and electric cables for proposed Quarantine Station, Sand Island, near here, to Virginia Eng. Co., Newport News, Va., $15,887. Noted Feb. 11.

Ky., Louisville—Dam—U. S. Engineer Office, P. O. Box 72, constructing Sects. A and B, Dam 41, in Ohio River, to Byllesby Eng. & Management Corp., 231 LaSalle St., Chicago, Ill., $2,056,168. Noted Dec. 24.

Ky., Louisville—Scows—U. S. Engineer Office, Box 72, 2 steel dump scows, to Dubuque Boat & Boiler Wks., Dubuque, Ia., $34,900. Noted Dec. 24.

Minn., Fort Snelling (br. St. Paul) — Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., general contract U. S. Veterans Hospital, here, to Murch Bros. Constr. Co., Ry. Exch. Bldg., St. Louis, Mo., $1,277,725. Noted Feb. 4.

Mo., Kansas City—Current Retards—U. S. Engineer Office, 1,350 lin.ft. current retards at South Point, to Woods Bros. Constr. Co., 132 South 13th St., Lincoln, Neb., $72,900.

Ariz., Prescott—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., post office, here, to W. D. Lovell, 1415 8th St. S. E., Minneapolis, Minn., $41,163 (12 mo.). Noted Feb. 4.

Unclassified

PROPOSED WORK

Swimming Pool—Bridgeport, Conn.—City, Bd. Aldermen, City Hall, plans swimming pool on site to be donated by Bridgeport Hydraulic Co. $50,000. J. McElroy, city engr.

Traffic Signals—Bridgeport, Conn.—City, Police Bd., S. Dawe, comr., plans traffic signals at Park and State Sts., Park and John Sts., Park and Fairfield Sts., John and Broad Sts., John and Courtland Sts., John and Main Sts., Main and State Sts., Main and Fairfield Sts., Main and Elm Sts., Main and Golden Hill Sts., Congress and Main Sts., Congress and Housatonic Sts., Middle and Fairfield Sts., Fairfield and Water Sts., Fairfield and Broad Sts., Fairfield and State Sts., Bedford and State Sts. $25,000.

Natatorium—Camden, N. J.—City plans natatorium at Pyne Point Park. $30,000. Engineer and architect not selected.

Gas Mains—Trenton, N. J.—Pub. Serv. Gas Co., East State St., plans 2 mi. mains in Pennington Rd. from city line to Carlton Ave. H. H. Newman, agt. in charge.

Fill—Leesburg, Fla.—City plans filling in low and overflow lands. $105,000. H. S. Jandon Eng. Co., Leesburg, engrs.

See proposal advertisements on page 120, Advertising Section.

Unclassified (Continued)

Sea Wall—Gulfport, Miss.—Bd. Supervs. Harrison Co., election soon $1,391,224 bonds, 9.92 mi. rein.-con. sea wall, incl. 41,045 Type A and 11,392 ft. Type B wall. H. D. Shaw, Gulfport, ch. engr.

Wharves, Docks, etc. — Louisiana — Plaquemine Parish Wharves, Docks & Shipping Terminals (recently incorporated), 329 Tchoupitoulas St., New Orleans, plans 10 pil. wharves, docks, etc., along river front from Orleans Parish line to Cedar Grove plantation.

Athletic Field—Alliance, O.—See "Buildings, Educational, Religious."

Park — Detroit, Mich. — Dept. Park & Boulevards, H. W. Busch, comr., Marquette Bldg., making plans improving River Rouge Park, incl. grading and surfacing drives, constructing amphitheatre, playground, etc.

Transmission Line—Wisconsin—Wisconsin Valley Electric Co., 206 3rd St., Wausau, plans rebuilding approximately 25 mi. transmission line between Stevens Point and Mosinee.

Culverts — Grundy Center, Ia. — See "Bridges."

Coliseum — Omaha, Neb. — Ak-Sar-Ben Assn., Court House, having plans prepared by G. B. Prinz, 1037 Omaha Natl. Bank Bldg., 2 story and basement coliseum, Ak-Sar-Ben Field. $450,000.

Steam Turbine Unit — Newport, Ark. — Arkansas Light & Power Co., Picron St., Little Rock, plans 1,500 hp. unit at plant, here. $140,000. R. E. Burton, Little Rock, engr.

Hydro-Electric Development—Tahlequah, Okla.—See "Buildings—Industrial."

Swimming Pool — Marysville, Calif. — Making plans rein.-con.. swimming pool. G. C. Sellon & Co., California State Life Bldg., Sacramento, archts. Noted Sept. 10.

Ornamental Lighting System — Long Beach, Calif.—Plans ornamental street lighting system on American Ave. between Ocean Blvd. and Anaheim Sts. To exceed $25,000. Pacific Electric Ry. Co., 610 South Main St., Los Angeles, appropriates $11,500 of total cost. R. D. Van Alstine, city engr.

Auto Subway—Oakland, Calif.—City and Alameda Co. plan automobile subway, foot of Goss St. $400,000. City and County appropriated $100,000 each, and Southern Pacific R.R. Co., 65 Market St., San Francisco, $200,000 toward cost. G. A. Posey, Oakland, co. surv. W. W. Harmon, city engr.

Ornamental Lighting System—Palo Alto, Calif. — City plans ornamental lighting system in El Camino Real (Mayfield Dist.) between Stanford Ave. and Page Mill Rd. $25,000 or more.

Piers, etc.—San Francisco, Calif.—State Bd. Harbor Comrs., Ferry Bldg., making plans constructing Pier 45, 1,200 ft. long, 382 ft. wide, concrete, providing 4 berths, 4 freight sheds and freight slip, $1,966,000; Pier 52 (inner unit) 650 ft. long, 376 ft. wide, concrete; 2 berths, 2 sheds incl. adjacent bulkhead wharf, $1,115,000; Pier 48 (inner unit) 600 ft. long, 376 ft. wide, concrete, $889,000; 150 ft. extension to Pier 41, on north side, $40,000; Pier 15, widening pier 30 ft., and reconstructing railroad track and new shed, $185,000. F. G. White, Ferry Bldg., ch. engr.

Storage Tank — Sausalito, Calif. — Lawrence Warehouse Co., 37 Drumm St., San Francisco, making estimates 1 m.g. steel alcohol storage tank, here.

Grain Elevator—Midland, Ont.—J. Playfair, having plans prepared rein.-con. grain elevator, waterfront. $500,000. Private plans.

BIDS DESIRED

Timber Flume, etc.—Brooklyn, N. Y.—Feb. 19, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., timber flume and signal tower foundations, at Coney Island Yard, Shell Rd., here.

Lighting System—Gouverneur, N. Y.—Mar. 18, by Bd. Light, Comrs., Municipal Bldg., street lighting and distribution system. L. C. Reynolds, 387 Castle St., Geneva, engr.; adv. E. N.-R. Feb. 18.

Lighting System — New York, N. Y. — Mar. 1, by Bd. Health, 505 Pearl St., L. I. Harris, pres., underground system, roadway lighting, etc. in various buildings, Riverside Hospital, North Brothers Island, Bronx.

Subway—New York, N. Y.—Feb. 26, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., subway Sect. 1, Route 102, under and along Greenwich and 8th Aves. from Bank to West 17th Sts.

Lighting System — Phila., Pa. — See "Streets and Roads."

Swimming Pool, etc.—Oakmont, Pa.—See "Contracts Awarded."

Culvert—Cleveland, O.—Feb. 26, by City, concrete culverts enclosing portion Doan Brook, in Wade Park. $25,000. R. Hoffman, City Hall, engr.

Transmission Line — Wisconsin — See "Materials under Wausau."

Transmission Line — Oklahoma — See "Contracts Awarded."

Wharf—Monterey, Calif.—Feb. 23, by A. J. Mason, city clk., Municipal Wharf 2, steel $262,000 available. F. B. Smith, 350 Holbrook Bldg., San Frnacisco, engr. Noted Dec. 24.

Grand Stand—Sacramento, Calif.—Mar. 2, by State Dept. Pub. Wks., rein.-con., brick and steel grand stand at fair grounds. G. B. McDougall, Forum Bldg., archt.

BIDS RECEIVED

Banana Unloaders—New Orleans, La.—Bd. Port Comrs., New Courthouse Bldg., Feb. 9, 2 banana unloaders, at Erato Street Wharf, from B. N. Davis, 1006 Tchonpitoulos St., $45,379. Noted Feb. 4.

Ornamental Lighting System—Los Angeles, Calif.—Ornamental lighting system on Hillhurst Ave. between Los Feliz and Hollywood Blvds., from D. S. McEwan, 127 Pier Ave., Ocean Park, $32,200.

Swimming Pool—Los Gatos, Calif.—D. M. Winning, city clk., Feb. 1, general contract 40 x 70 ft. tank and building, from J. D. Carlson, 235 Sierra St., San Jose, $14,168-$15,520. Noted Jan. 21.

CONTRACTS AWARDED

Borings—New York—Bd. Transportation, J. A. Delaney, chn., 49 Lafayette St., land and water borings, South St., Boro Manhattan, East River from Fulton St., Manhattan to Cranberry St., Brooklyn, Route 101 A-1, Agreement "EH," to E. J. Longyear Exploration Co., 710 Security Bldg., Minneapolis, Minn., $21,933. Noted Jan. 7.

Swimming Pool, etc. — Oakmont, Pa. — Oakmont Motor Boat Co., c/o J. T. Anderson, will build 125 x 325 ft. rein.-con. swimming pool, 110 x 216 ft. U shaped bath house, and 1,280,000 gal. filter plant, by separate contracts. $150,000. W. H. King, Ferguson Bldg., Pittsburgh, engr.

Tipple and Conveying System—Williamson, W. Va.—Portsmouth By-Products Co., tipple and conveying system, to Link Belt Co., Huntington Park and Nicetown St., Phila., Pa., $250,000.

Foundation — West Palm Beach, Fla. — See "Buildings — Commercial under Proposed work."

Wharf—Lake Charles, La.—Bd. Comrs. Harbor & Terminal Dist., creosoted timber wharf with 2 railroad tracks, to Banta & Mautersbaugh, Lake Charles, $165,497. Noted Jan. 28.

Electrical Wiring—New Orleans, La.—S. Stone, Jr., archt., 714 Union St., wiring 18 story Masonic Temple, St. Charles and Perdido Sts., to Freeman-Barlow, Inc., 713 St. Charles St., $78,765. Noted Oct. 15.

Foundation—Indianapolis, Ind.—Trustees Indiana World War Memorial, Indiana World War Memorial Bldg., St. Clair and Meridian Sts., foundations for Central Shrine Indiana World War Memorial Plaza, Meridian, Pennsylvania, Michigan and Vermont Sts., to E. C. Strathmann Co., 4220 Central Ave., $289,000. Noted Jan. 7.

Boiler Settings — Detroit, Mich. — Pub. Lighting Comn., 174 East Atwater St., boiler settings for municipal power house, Morrell St., to Combustion Eng. Co., 51 Broad St., New York City, $239,500. Engrs. est. $235,000. Noted Jan. 28.

Generators—Decatur, Ill.—City Council, two 625 kw. steam turbine generators and excitors, 2 new condensors and auxiliaries, also switch board panel, to Allis-Chalmers Co., West Allis, Milwaukee, Wis., $51,825. Noted Feb. 4.

Transmission Line — Wisconsin — See Materials under Wausau, Bids Desired."

Rein.-con. Wall—St. Louis, Mo.—Bellefontaine Cemetery Assn., Security Bldg., 1,000 ft. rein.-con. wall, 50 ft. high, along edge cemetery, West Florissant Ave., to St. Louis Contg. Co., 4425 Clayton Ave. Engrs. est. $40,000.

Transmission Line — Oklahoma — Oklahoma Gas & Electric Co., 112 North Bway., Oklahoma City, will build electric transmission line from Stillwater to Perkins and to sand pit south of Perkins, by day labor. $35,000. Byllesby Eng. Co., 231 South La Salle St., Chicago, Ill., engrs.

Oil Reservoir — Tracy, Calif. — Southern Pacific R.R., 65 Market St., San Francisco, 1,100 ft. oil reservoir, 600 ft. wide, 30 ft. deep, 3,000,000 bbl. capacity, to Bent Bros., 418 South Pecan St., Los Angeles.

Materials

PROPOSED WORK

Sand Grit—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rejected bids Jan. 29, 5,000 cu.yd. sand grit and 23,000 tons steam ashes. Noted Feb. 4.

Road Oil — Kewanee, Ill. — Wethersfield and Kewanee Twps. plan to purchase 100,000 gal. road oil. at $0.66 per gal. J. Mayhew, highway comr.

Road Oil—Rio, Ill.—Rio Twp. plans to purchase and spread 60,000 to 70,000 gal. road oil. A. Robertson, Rio, highway comr.

BIDS DESIRED

Asphaltic Cement—St. George, N. Y.—Feb. 24, by J. A. Lynch, pres. Richmond Boro, Boro Hall, 300 tons asphaltic cement; 100,000 gal. bituminous road surfacing material; 276,000 gal. asphaltic macadam binder for hot application; 1,100 cu. yd. concrete and paving sand; 2,600 cu.yd. 1½ in. and 450 cu.yd. ¾ in. broken stone, 500 cu.yd. screenings; 3,800 cu.yd. 1½ in. and 225 cu.yd. ¾ in. broken stone, 225 cu.yd. screenings; 1,850 cu.yd. trap rock screenings; 1,650 cu.yd., 700 cu.yd. and 1,850 cu. yd. pea gravel for Dists. 1, 2, 3 respectively.

Crushed Stone, etc. — Freehold, N. J. — Mar. 3, by Bd. Freeholders Monmouth Co., Court House, crushed stone, slag and gravel, etc. for road work during 1926. G. K. Allen, Jr., Red Bank, engr.; adv. E. N.-R. Feb. 18.

Railroad Crossing Frogs, etc.—Newark, N. J.—Feb. 20, at office T. L. Raymond, mayor, City Hall, railroad crossing frogs, curb boxes, 30 in. c.i. pipe, specials, etc.

Stone, etc.—Newark, N. J.—Feb. 23, by City Council, 2,000 tons 1½ in. and 500 tons ¾ in. stone, also, 2,000 tons stone screenings.

Pig Lead—Phila., Pa.—Feb. 23, by Dept. Pub. Wks., Bureau Water, 50,000 lb. pig lead, Contr. 794.

Cast Iron Pipe, etc.—Laurel, Miss.—City in market 16 ft. length 6 and 8 in. Class B, c.i. pipe without prepared joint, also fire hydrants.

Gravel — Louisiana — See "Streets and Roads."

Gravel — Logansport, La. — Mar. 2, by State Hy. Comn., Baton Rouge, 5,691 cu.yd. washed and screened gravel, f.o.b. here, for Federal Aid Project 152 C, De Soto Parish.

Stone and Cement, etc.—Cleveland, O.—Feb. 19, by City, 8,500 tons crushed stone, 4,000 tons binder stone, 12,000 bbl. Portland cement, 10,000 sacks lumnite cement, 200,000 gal. road oil, 7,500 tons paving sand and 15,000 tons asphalt sand.

Road Oil—Arcola, Ill.—Street and Alley Comn. taking bids 20,000 gal. road oil spread on streets. O. R. Twiford, mayor.

Road Oil, etc.—Two Rivers, Wis.—Feb. 23, by R. Biehl, city mgr., 1 carload each road oil and tarvia.

Wire, Insulator, etc.—Wausau, Wis.—F. Nolte, purch. agt. Wisconsin Valley Electric Co., 206 3rd St., taking bids wire, insulators, wooden poles, cross arms, etc. for approximately 40 mi. transmission line from Wausau to Antigo. Work will be done by day labor. Private plans.

Road Oil—Anaheim, Calif.—City in market 2,400 bbl. road oil. E. B. Merritt, city clk.

Pipe, etc.—Oroville, Calif.—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Asphalt Cement, etc.—Hamilton, Ont.—Feb. 24, by S. H. Kent, chn. Bd. Control, addressed to F. Treleaven, mayor, City Hall, asphalt cement, broken stone, limestone dust, vitr. and concrete sewer pipe, asphaltic sand, gravel, c.i. pipe, etc.

Asphalt, etc.—Ottawa, Ont.—Feb. 23, by Bd. Contract, asphalt, asphaltic filler, lead pipe, pig lead, sand, stone, castings, road oil, vitr. and concrete sewer pipe, etc., for Dept. Supplies. A. F. Macallum, City Hall, engr.

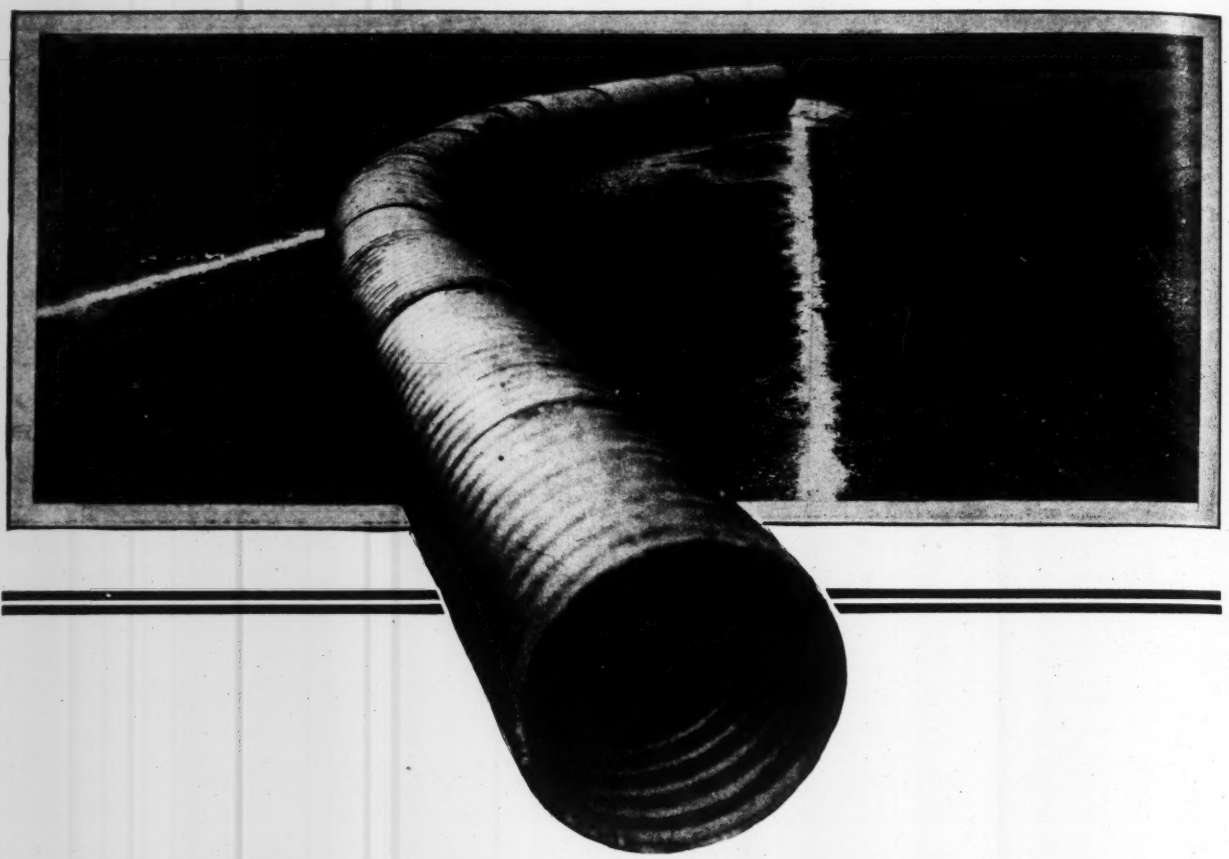
CONTRACTS AWARDED

Macadam Binder — Long Island City, N. Y. — M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 350,000 gal. macadam binder and 600,000 gal. road oil for cold application, to Standard Oil Co. of New York, 23 Bway., New York City, $23,884 and $37,560 respectively. Noted Feb. 4.

Sand Grit—New York, N. Y.—H. Bruckner, pres. Bronx Boro, Crotona Park, Tremont and 3rd Aves., 10,000 cu.yd. sand grit, to Ames Building Material Co., 3437 Kingsbridge Rd., $16,300. Noted Feb. 11.

Road Oil—White Hall, Ill.—City Council, 60,000-100,000 gal. 60 to 75% asphalt road oil, to Iowa Road Building Co., 417 10th St., Des Moines, Ia., at $0.0534 per gal. Noted Jan. 28.

See proposal advertisements on page 120, Advertising Section.



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1. Made of pure remelted pig iron—solid, round, vertically cast. Contain no scrap whatever.
2. Made in lengths of three feet three inches.
3. Pipe screw into each other. One turn takes up three inches.
4. Standard Corrugations. Tests many times as strong as plain pipe.
5. One man handles and installs it.
6. It lasts forever, yet is as cheap as ordinary structures.
7. Each piece is uniform in thickness.

Why Cast Iron for Culvert Pipe?

Wood decays, refined iron or steel rusts, clay or earthenware disintegrates, concrete cracks from frost; but culvert pipe cast from pure remelted Alabama Pig Iron lasts forever.

Spiral Corrugated Cast Iron Culvert Pipe made by the American Casting Company never needs replacement. Installation is easy. One man without special tools or help can assemble an ordinary size culvert in a matter of minutes. The sections screw into each other and maintain perfect alignment even where unsupported.

The first cost is no more than temporary structures but the final cost of American Cast Iron Culvert is infinitely less.

Our bulletins give complete information and also describe American Cast Iron Headwalls for use with this pipe. You should have the facts. A line from you will bring them to your desk.

AMERICAN CASTING COMPANY

Birmingham, Alabama

CONSTRUCTION NEWS

Engineering News-Record, Feb. 25, 1926

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

Proposed Work

Passenger Station, Buffalo, N. Y., New York Central R.R. plans building, $12,000,000.

Apartment, New York, N. Y., Beresford Corp. having plans prepared, $3,800,000.

Schools, Atlanta, Ga., plans bond election, $3,500,000.

Mills, Buffalo, N. Y., Great Lakes Portland Cement Co. having plans prepared, $3,000,000.

Cement plant, Davenport, Ia., Dewey Portland Cement Co. plans plant, $3,000,000.

Road improvement, Brownsville and Cameron Cos., Texas, plan road improvement, $1,750,000 to $4,000,000.

Road work, Arkansas, State Hy. Dept. making preliminary plans, $2,500,000.

Sewers, Atlanta, Ga., plans bond election, $2,000,000.

Power and irrigation work, Austin, Tex., State Bd. Water Engineers making preliminary surveys, $2,000,000.

Electric Generating Plant, Brooklyn, N. Y., Brooklyn Edison Co. plans plant, $2,000,000.

Church, Hotel, and Theatre, Kansas City, Mo., Linwood Blvd. Christian Church having preliminary sketches made, $2,000,000.

Theater and office, Dallas, Tex., Loew's Theatres, Inc., plans building, $2,000,000.

Bridges, Miami, Fla., city voted bonds for 5 bridges, $1,800,000.

Hotel, Pittsburgh, Pa., Pittsburgh Pennsylvania Hotel Corp. having plans prepared, $1,500,000.

Apartment, Buffalo, N. Y., H. J. Cook, et al, having preliminary plans prepared, $1,225,000.

City Hall, Atlanta, Ga., city plans bond election, $1,000,000.

Temple, Hartford, Conn., St. John's, Hartford, Lafayette, Tuscan, Blue Lodges plan temple, $1,000,000.

Bids Wanted On Big Jobs

Flood prevention, Hidalgo Co., Hidalgo, Texas, takes bids soon for flood prevention, $1,620,000.

Levees, Cameron Co., Brownsville, Texas., soon takes bids, $1,500,000.

Courthouse, Bexar Co., San Antonio, Tex., Mar. 5, takes bids, $1,000,000.

Transformer plant, St. Louis, Mo., American Brown Boveri Co. purchased 10 acres and soon takes bids for building, $1,000,000.

Large Contracts Let During Week

Land development, St. Augustine, Fla., D. P. Davis Properties to Foundation Co., New York City, $8,000,000 to $10,000,000.

Office, San Francisco, Calif., Hunter-Dulin Co. to separate contracts, $3,000,000.

Office, theatre and stores, Brooklyn, N. Y., H. E. Witteman will build 14 story building; work done by separate contracts, $1,200,000.

PROPOSALS

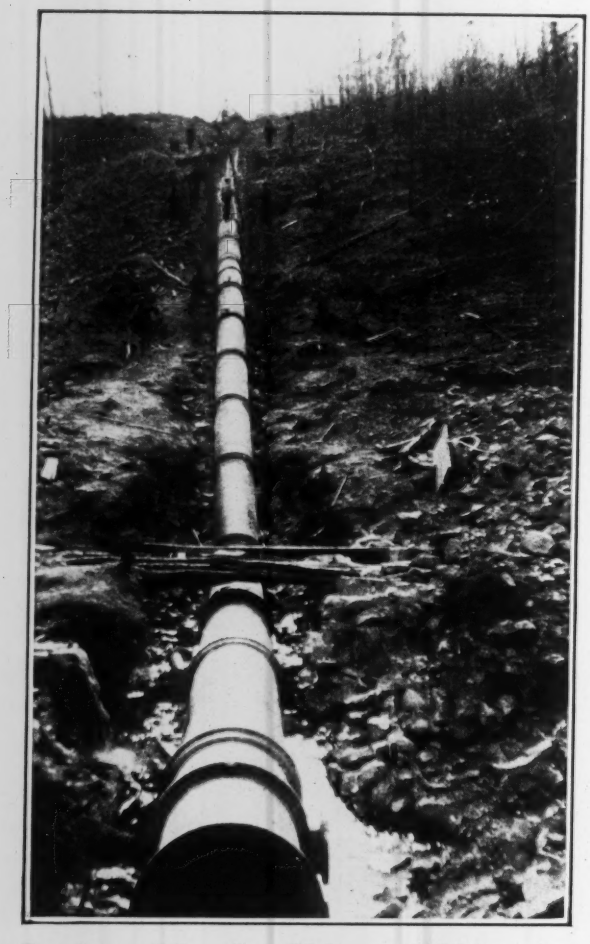
For Proposals Advertised
see pages 132-138
Advertising Section

Bids Close		See Eng. News-Record
	WATERWORKS	
Feb. 26	Dunkirk, N. Y.	Feb. 11
Mar. 1	Minneapolis, Minn.	Feb. 25
Mar. 1	Stockton, N. J.	Feb. 25
Mar. 1	Toronto, Ont.	Feb. 25
Mar. 2	Winona, Miss.	Feb. 18
Mar. 2	Baraboo, Wis.	Feb. 18
Mar. 3	Greenville, Tex.	Feb. 4
Mar. 3	Baltimore, Md.	Feb. 25
Mar. 4	McMinnville, Tenn.	Feb. 18
Mar. 5	Long Island City, N. Y.	Feb. 25
Mar. 5	Brooklyn, N. Y.	Feb. 25
Mar. 5	New York City, N. Y.	Feb. 25
Mar. 8	Saugerties, N. Y. Adv. Feb. 25.	Feb. 25
Mar. 8	Belle River, Ont.	Feb. 25
Mar. 9	Medford, Ore.	Feb. 25
Mar. 9	Detroit, Mich.	Feb. 25
Mar. 11	Milwaukee, Wis.	Feb. 25
Mar. 15	Crane, Mo.	Feb. 18
Mar. 15	Edmonton, Alta.	Feb. 25
Mar. 16	San Rafael, Calif. Adv. Feb. 25.	Feb. 25
Mar. 16	St. Louis, Mo.	Feb. 25
Mar. 17	Saugerties, N. Y. Adv. Feb. 25.	Feb. 25
Mar. 17	Wilmington, Del. Adv. Feb. 25.	Feb. 25
Mar. 26	East Paterson, N. J. Adv. Feb. 25.	Feb. 18
	SEWERS	
Mar. 1	Clayton, Mo.	Jan. 28
Mar. 2	Jacksonville Beach, Fla. Adv. Feb. 4 to 25.	Feb. 4
Mar. 2	Waco, Tex.	Feb. 11
Mar. 2	Dickson, Tenn.	Feb. 18
Mar. 3	Baltimore, Md.	Feb. 25
Mar. 10	Waco, Tex.	Jan. 7
Mar. 15	Waco, Tex.	Jan. 21
Mar. 16	West Palm Beach, Fla. Adv. Feb. 18 and 25.	Feb. 18
Mar. 17	Wichita Falls, Tex. Adv. Feb. 25.	Feb. 25
	BRIDGES	
Mar. 3	Phila., Pa. Adv. Feb. 18 and 25.	Feb. 18
Mar. 8	Mercer, Pa. Adv. Feb. 18 and 25.	Feb. 18
Mar. 9	Louisiana	Feb. 18
Mar. 9	Indiana	Feb. 25
Mar. 10	Alabama	Feb. 25
Mar. 12	Tennessee	Feb. 25
Mar. 16	South Carolina	Feb. 25
Mar. 18	Laverne, Okla.	Feb. 11
Mar. 30	Tampa, Fla. Adv. Feb. 25.	Feb. 25
Mar. 30	Louisiana Adv. Feb. 25.	Feb. 25
	DAMS	
Mar. 15	Los Angeles, Calif.	Jan. 28
Mar. 23	Wellington, New Zealand	Jan. 21
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES RIVER AND HARBOR	
Mar. 2	Ft. Dodge, Ia. Adv. Feb. 25.	Feb. 25
Mar. 3	New York Adv. Feb. 18 and 25.	Feb. 18
Mar. 10	St. James, Minn.	Feb. 25
Mar. 12	New Jersey Adv. Feb. 25.	Feb. 25
	STREETS AND ROADS	
Feb. 26	Kittanning, Pa.	Jan. 28
Feb. 27	Macomb, Ill. Adv. Feb. 25.	Feb. 25
Feb. 27	East St. Louis, Ill.	Feb. 25
Feb. 28	Indiana	Feb. 4
Mar. 1	Selma, Ala.	Feb. 11
Mar. 1	Birmingham, Ala.	Feb. 11
Mar. 1	Ebensburg, Pa.	Feb. 11
Mar. 1	Akron, O.	Feb. 18
Mar. 1	New Jersey	Feb. 18
Mar. 1	Greensburg, Pa.	Feb. 25
Mar. 1	Dayton, O.	Feb. 25
Mar. 1	Milwaukee, Wis.	Feb. 25
Mar. 2	Towson, Md.	Feb. 25
Mar. 2	St. Paul, Minn.	Feb. 25
Mar. 2	Omaha, Neb.	Feb. 25
Mar. 2	Booneville, Miss.	Feb. 25
Mar. 2	Stillwater, Okla.	Feb. 25
Mar. 2	Columbus, Miss.	Feb. 25
Mar. 2	Williamson, W. Va.	Feb. 18
Mar. 2	St. Louis, Mo.	Feb. 11
Mar. 2	Florida	Feb. 11
Mar. 2	Pennsylvania	Feb. 4
Mar. 2	Louisiana	Feb. 4
Mar. 2	Chilton, Wis.	Jan. 28
Mar. 2	Bedford, Ind.	Feb. 18
Mar. 2	Anderson, Ind.	Feb. 18
Mar. 2	South Carolina	Feb. 18
Mar. 2	Asbury Park, N. J.	Feb. 18
Mar. 2	North Dakota	Feb. 18
Mar. 2	Phila., Pa.	Feb. 25
Mar. 2	Colusa, Calif.	Feb. 25
Mar. 2	Santa Ana, Calif.	Feb. 25
Mar. 3	Camden, N. J.	Feb. 18
Mar. 3	North Dakota	Feb. 18
Mar. 3	Linden, Tex.	Feb. 18
Mar. 3	Anderson, Tex.	Feb. 18
Mar. 3	New Jersey Adv. Feb. 18 and 25.	Feb. 18
Mar. 3	Chicago, Ill.	Feb. 25
Mar. 3	Pittsburgh, Pa.	Feb. 25
Mar. 3	Milwaukee, Wis.	Feb. 25
Mar. 3	Idaho	Feb. 25
Mar. 4	Texas	Feb. 25
Mar. 4	Boston, Tex.	Feb. 18
Mar. 4	North Dakota	Feb. 18
Mar. 4	Corning, N. Y. Adv. Feb. 18 and 25.	Feb. 18
Mar. 4	Carthage, Tex.	Feb. 18
Mar. 4	Dayton, O.	Feb. 25
Mar. 5	North Dakota	Feb. 18
Mar. 5	Santa Rosa, Calif.	Feb. 25
Mar. 5	New York Adv. Feb. 18 and 25.	Feb. 25
Mar. 5	Texas	Feb. 25
Mar. 6	Lebanon, Ind.	Feb. 25
Mar. 8	Dickinson, N. D.	Feb. 11
Mar. 8	Muskegon, Mich.	Feb. 18
Mar. 8	Indianapolis, Ind.	Feb. 18
Mar. 8	California	Feb. 18
Mar. 8	Texas	Feb. 25
Mar. 8	De Kalb, Ill.	Feb. 25
Mar. 8	San Diego, Calif.	Feb. 25
Mar. 8	Los Angeles, Calif.	Feb. 25
Mar. 9	Maryland Adv. Feb. 25.	Feb. 25
Mar. 9	North Dakota	Feb. 18
Mar. 9	Rosedale, Miss.	Feb. 18
Mar. 9	South Dakota	Feb. 25
Mar. 9	North Dakota	Feb. 25
Mar. 9	Eagle Lake, Tex.	Feb. 25
Mar. 9	Quebec	Feb. 25
Mar. 10	Alabama	Feb. 11
Mar. 10	Birmingham, Ala.	Feb. 18
Mar. 10	Wash., D. C.	Feb. 18
Mar. 10	Delaware	Feb. 18
Mar. 10	North Dakota	Feb. 25
Mar. 11	North Dakota	Feb. 25
Mar. 11	Tuckerton, N. J.	Feb. 25
Mar. 12	Tennessee Adv. Feb. 25.	Feb. 25
Mar. 15	Anderson, Ind.	Feb. 25
Mar. 15	Summerville, W. Va.	Feb. 25
Mar. 15	Florida	Feb. 25
Mar. 15	Oklahoma	Feb. 25
Mar. 16	West Virginia	Feb. 25
Mar. 16	Louisiana	Feb. 18
Mar. 16	St. Louis, Mo.	Feb. 25

See proposal advertisements on page 132, Advertising Section.

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office



Section of 9 miles 30-in. and 36-in. pipe laid with LEADITE

LEADITE, like cast-iron pipe, has proven its durability.

LEADITE has been successfully tested and used for over 30 years for jointing all sizes of cast-iron bell and spigot water mains from 4 in. to 60 in. in diameter, under all pressures and conditions encountered in water-works construction.

Thousands of miles of pipe have been laid with LEADITE.

The most prominent water-works engineers, superintendents and contractors specify and use LEADITE on their work, because it is durable, economical and efficient.

LEADITE saves at least 75%.

LEADITE is the pioneer Self-Caulking Material for c.i. Pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids Close		See Eng. News-Record
Mar. 19	Winfield, Kan.	Feb. 25
Mar. 23	Pennsylvania Adv. Feb. 25.	Feb. 25
Mar. 25	Florida Adv. Feb. 18 and 25.	Feb. 18

BUILDINGS—INDUSTRIAL

Feb. 27	Phila., Pa.	Feb. 18
Mar. 1	Chicago, Ill.	Jan. 14
Mar. 2	Camden, N. J.	Feb. 25
Mar. 2	Watertown, Mass.	Feb. 25

BUILDINGS—COMMERCIAL

Feb. 27	Worcester, Mass.	Feb. 25
Mar. 1	Duluth, Minn.	Jan. 7
Mar. 1	Pensacola, Fla.	Feb. 11
Mar. 1	Williamsport, Pa.	Feb. 4
Mar. 1	Hot Springs, Ark.	Feb. 18
Mar. 1	Royal Oak (Ind. br. Detroit), Mich.	Feb. 18
Mar. 2	Columbus, O.	Feb. 11
Mar. 3	Newark, N. J.	Feb. 11
Mar. 3	Cleveland, O.	Feb. 25
Mar. 3	Middletown, Conn.	Feb. 25
Mar. 10	London, Ont.	Feb. 25
Mar. 11	Thiells, N. Y. Adv. Feb. 25.	Feb. 25
Mar. 15	Altoona, Pa.	Feb. 11
Mar. 15	Muncie, Ind.	Feb. 18
Mar. 15	Lankershim, Calif.	Feb. 25
Apr. 1	Lakewood (br. Cleveland), O.	Feb. 11
Apr. 1	Moline, Ill.	Jan. 14
Apr. 1	Youngstown, O.	Dec. 31

BUILDINGS—EDUCATIONAL, RELIGIOUS

Feb. 26	Quincy (Ind. br. Boston), Mass.	Feb. 18
Feb. 26	Framingham, Mass.	Feb. 25
Feb. 27	Milwaukee, Wis.	Feb. 25
Feb. 27	Phila., Pa.	Feb. 18
Feb. 28	Pittsburgh, Pa.	Feb. 25
Mar. 1	Milwaukee, Wis.	Feb. 18
Mar. 1	Newberry, Mich.	Jan. 28
Mar. 1	Melvindale (Dearborn P. O., R. F. D. 2), Mich.	Feb. 18
Mar. 1	Walpole, Mass.	Feb. 18
Mar. 1	Pasadena, Calif.	Feb. 25
Mar. 1	Pittsburg, Mo.	Feb. 25
Mar. 1	Bloomington, Ind.	Feb. 25
Mar. 2	Black River Falls, Wis.	Feb. 25
Mar. 2	Milwaukee, Wis.	Feb. 25
Mar. 2	Phila., Pa.	Feb. 25
Mar. 3	Baton Rouge, La.	Jan. 21
Mar. 3	Olympia, Wash.	Feb. 18
Mar. 3	Los Angeles, Calif.	Feb. 25
Mar. 3	Oakharbor, O.	Feb. 25
Mar. 3	Stamford, Conn.	Feb. 25
Mar. 3	Grand Island, Neb.	Feb. 25
Mar. 3	St. Louis, Mo.	Feb. 25
Mar. 4	Minneapolis, Minn.	Feb. 25
Mar. 4	West Haverstraw, N. Y. Adv. Feb. 18 and 25.	Jan. 21
Mar. 4	Daytona, Fla.	Feb. 18
Mar. 5	Polo, Ill.	Feb. 25
Mar. 8	West Pittston (Pittston P. O.), Pa.	Feb. 25
Mar. 8	Maplewood (br. South Orange), N. J.	Feb. 18
Mar. 8	Dayton, O.	Feb. 11
Mar. 9	Orange, Mass.	Feb. 25
Mar. 10	Valparaiso, Ind.	Feb. 25
Mar. 10	Danielson, Conn.	Feb. 25
Mar. 13	Lakewood (Cleveland P. O.), O.	Feb. 25
Mar. 15	Lewistown, Pa.	Jan. 21
Mar. 19	Dayton, O.	Feb. 25

FEDERAL GOVERNMENT WORK

Feb. 26	Dredging — New York, N. Y.	Jan. 28
Feb. 26	Tunnel, etc.—Phila., Pa.	Feb. 18
Mar. 1	Steel Work—Phila., Pa. Adv. Feb. 18 and 25.	Feb. 18
Mar. 1	Elevator—Wash., D. C. Adv. Feb. 4 to 25.	Feb. 4
Mar. 3	Hospital—Mare Island, Calif.	Jan. 21
Mar. 3	Compass Station—Cape Lookout (mail Beaufort), N. C.	Feb. 4
Mar. 3	Remodeling—Erie, Pa.	Feb. 18
Mar. 3	Dredging—South Boston (sta. Boston), Mass.	Feb. 18
Mar. 8	Post Office—Jackson, Mich.	Feb. 18
Mar. 9	Outlet Pipes—Oregon	Feb. 4
Mar. 9	Cement—Louisville, Ky. Adv. Feb. 11 to 25.	Feb. 11
Mar. 10	Post Office—Terre Haute, Ind.	Feb. 18
Mar. 12	Remodeling—Michigan City, Ind. Adv. Feb. 25.	Feb. 25
Mar. 15	Remodeling—Mobile, Ala.	Feb. 25
Mar. 15	Breakwater—Hilo, T. H. Adv. Jan. 21 to Feb. 25.	Jan. 21
Mar. 15	Dam—Louisville, Ky. Adv. Feb. 18 and 25.	Feb. 18
Mar. 17	Dredging—Toledo, O. Adv. Feb. 18 and 25.	Feb. 18
Mar. 22	Foundations—Dayton, O. Adv. Feb. 4.	Feb. 25
Apr. 1	Cruiser, etc.—Wash., D. C. Adv. Feb. 25.	Feb. 25

UNCLASSIFIED

Feb. 26	Subway—New York City, N. Y.	Feb. 18
Feb. 26	Culvert—Cleveland, O.	Feb. 18
Mar. 1	Lighting System—New York City, N. Y.	Feb. 18
Mar. 1	Fire Alarm System—New York City, N. Y.	Feb. 25
Mar. 3	Conduit—Baltimore, Md.	Feb. 25
Mar. 4	Subway—New York City, N. Y.	Feb. 25
Mar. 4	Lighting System—Chicago, Ill.	Feb. 25
Mar. 6	Heating, Ventilating, etc. — Indianapolis, Ind.	Feb. 25
Mar. 18	Lighting System—Gouverneur, N. Y.	Feb. 18
Mar. 23	Panels, Filters, etc.—Wellington, N. Z.	Jan. 21

MATERIALS

Feb. 27	Cement, Limestone Dust, etc.—Scranton, Pa.	Feb. 25
Mar. 1	Granite Blocks—Chicago, Ill.	Feb. 25
Mar. 2	Gravel—Logansport, La.	Feb. 18
Mar. 2	Creosoted Ties—Phila., Pa.	Feb. 11
Mar. 3	Crushed Stone, etc.—Freehold, N. J. Adv. Feb. 18 and 25.	Feb. 18
Mar. 3	Pitch—New York City, N. Y.	Feb. 25
Mar. 12	Cables, etc.—Evansville, Ind.	Feb. 25

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Lakewood—Voted $60,000 bonds, extending mains in various streets. L. L. Graham, 506 Winsor St., Jamestown, civil engr.

Ga., Atlanta—Election Mar. 24, $500,000 bonds, waterworks. W. Sims, mayor.

Ga., Decatur—Election Mar. 20, $60,000 bonds waterworks and $10,000 bonds, sewerage system.

Fla., Miami—Voted $600,000 bonds, additional pipe lines new filter plant, etc.; $375,000 bonds, pumps and equipment for high pressure water system; also $150,000 bonds, additional fire hydrants, etc. Noted Jan. 14.

O., Akron—A. S. Helpbringer, purch. agt. takes bids about Mar. 18, 1,000 tons 6- to 16-in. c.i. pipe, and 300 or 400 6- to 16-in. valves.

Ill., Chicago—South Park Comrs., 57th St. and Cottage Grove Ave., soon takes bids 3,900 ft. 1 in. lead, and 43,900 ft. 2- to 14-in. c.i. mains, etc., in Grant Park and Lake Front extensions. L. White, ch. engr.

Ill., Grayslake—Village Clerk takes bids about Mar. 5, water and sewer extensions in various streets $25,000. Marr Green Co., 400 North Michigan Ave., Chicago, engrs.

Ill., Kewanee—See "Streets and Roads."

Ia., Oskaloosa—Plans 500,000 gal. rein.-con. reservoir. $30,000. N. Wray, city clk. Engineer not announced.

Kan., Severy—Making preliminary plans waterworks. $50,000. Burns & McDonell, 401 Interstate Bldg., Kansas City, Mo., engrs.

N. D., Crosby—Plans waterworks. $20,000. O. Woolfrey, city aud. Engineer not announced.

Mo., Forsythe—Plans distribution system. $18,500. Alexander Eng. Co., Woodruff Bldg., Springfield, engrs. Noted Feb. 18.

Tex., Lisbon—Election Mar. 16, $65,000 bonds, complete waterworks, incl. 4- to 8-in. c.i. pipe, hydrants, etc. Dayton & Parker, 319 Wilson Bldg., Dallas, engrs.

Tex., Rochester — Making preliminary surveys complete waterworks. $40,000. Address Chamber of Commerce.

Tex., Stanton — Election soon $40,000 bonds, waterworks. Address Mayor.

Tex., Waelder—Plans waterworks. $35,000. Engineer soon selected. Address Mayor.

Okla., Clinton — Making preliminary plans new waterworks. $40,000. W. A. Shouse, city clk. Engineer not announced.

Okla., Norman — Making preliminary plans new pumping equipment, incl. diesel engine, motors, air compressor, 2 new wells, etc. $30,000. F. Cobb, Norman, engr.

Calif., Alameda — Plans pipe line, sprinkler system, pump, motor, etc., for Municipal Golf Course on Bay Farm Island. $25,000 or more. B. Hamilton, city engr.

Calif., Beverly Hills—Plans to purchase 3,000 ft. 8 and 10 in. riveted steel 12-gauge pipe. B. J. Firminger, city clk.

Calif., Burbank—Plans election $75,000 or more bonds, extending watermains and fire hydrants on various streets.

Calif., Santa Barbara—Making estimates steel pipe line with concrete supports from Mission tunnel portal of Gibraltar dam to Sheffield Reservoir. $100,000 or more. V. E. Trace, supt. Water Works.

Calif., Santa Barbara—Plans to purchase water mains. $50,000. V. E. Trace, city water supt.

Ont., Toronto—City Council plans 11,000 ft. 12 in. c.i. mains in Rosedale Area from South Dr. to Astley Blvd., from Glen Rd. to Schofield Ave. and from Roxborough Rd. to Summerhill Ave. $82,850. R. C. Harris, City Hall, engr.

BIDS DESIRED

N. Y., Brooklyn—Mar. 5, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Rockaway Parkway, Delamere and Elmore Pls., Dekalb, Forbell, Foster, Georgia and Livonia Aves., Avenues S and T, Ashford, Bradford, Glen, Wyona, 47th, 62nd, East 4th, 5th, 7th, 9th, 31st, 32nd, and 94th Sts., here.

N. Y., Long Island City—Mar. 5, by N. J. Hayes, comr., Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in 22nd and 45th Drs., 22nd Rd., Hopkins, Washington, 60th and 38th Aves., Bliss, Van Horne, Vincent, 50th and 213th Sts., here. Noted Dec. 17.

N. Y., New York — Mar. 5, by P. J. Dooling, comr. Purchase, Municipal Bldg., c.i. pipe and special castings; also wet connection sleeves and valves, straight and flexible jointed c.i. pipe, etc. for Dept. Water Supply.

N. Y., Saugerties—Mar. 8, by Bd. Water Comrs., 46 Market St., 1,674 tons 6- to 16-in. c.i. pipe. J. F. Loughran, Kingston, engr.; adv. E. N.-R. Feb. 25.

N. Y., Saugerties—Mar. 17, by Bd. Water Comrs., 46 Market St., 5 mi. 16 in. c.i. pipe line. J. F. Loughran, Kingston, civil engr.; adv. E. N.-R. Feb. 25.

N. J., Stockton—Mar. 1, by Boro Council, 1 mi. 6 in. B and S mains, etc. in various streets. W. J. Ledger, boro clk.

Del., Wilmington—Mar. 17, by Bd. Water Comrs., 16th and French Sts., additional coagulating basin for mechanical filter plant. S. N. Van Trump, ch. engr. Fuller & McClintock, 170 Bway., New York City, consult. engrs.; adv. E. N.-R. Feb. 25.

Md., Baltimore — Mar. 3, by Bd. Awards laying mains and excavating trenches for Bureau Water Supply. V. B. Siems, City Hall, water engr.

Mich., Detroit — Mar. 9, by Bd. Water Comrs., Contr. 1, 41,892 ft. 6- to 12-in. mains in Mellon, Lowdell, Marshall, Fordale, Major, Lang, South Dearborn, Miami, Visger, Beatrice, Manning, Ethel, Bassett, Manning, Gleason, Dartmouth, Dumfries, Annabell, and Carbon Sts.; Contr. 2, 35,075 ft. 6- to 12-in. mains in Western Dr., Plymouth, Bonaparte, Tireman, Trinity, Sierra, Pierson, West Chicago, Braile, Patton and Fielding Sts.; Contr. 3, 36,590 ft. 6- to 16-in. mains in Horger, Piedmont, Grandville, Westwood, Bonaparte, Plainview, Minock, Sawyer, Tireman, Evergreen, Auburn and Warren Sts. G. H. Fenkell, 176 East Jefferson Ave., genl .mgr. Noted Oct. 29, Nov. 12, Dec. 10, 1925, and Jan. 28 and Feb. 4.

Wis., Milwaukee—Mar. 11, by Dept. Pub. Wks., R. Stoelting, comr., 1 vertical triple expansion crank and flywheel pumping engine, 25 m.g. capacity, in Riverside pumping station

Minn., Minneapolis — Mar. 1, by F. S. Gram, city purch. agt., four thousand ¾ in., two hundred 1 in. curb cocks and one hundred each ¾ in. and 1 in. inverted curb cocks; four thousand ¾ x ¾ in. and three hundred ¾ x 1 in. corporation cocks, etc. N. W. Elsberg, city engr.

Mo., St. Louis — Mar. 16, by Bd. Pub. Serv., 208 City Hall, four 650 hp. boilers, $105,000; 4 forced draft chain grate

See proposal advertisements on page 132, Advertising Section.

Where Traffic or Business Demands Quick-Hardening, Strong Concrete

Time is an important consideration on many sidewalk, paving and other jobs. Traffic or business often demands that the improvement be placed in service at the earliest possible moment.

For such work you can, with standard *Universal* cement, the same quality *Universal* you have always used, obtain quick-hardening, strong concrete in *3 days* by using simple methods that thousands of laboratory tests and actual construction experience prove will give the desired results.

Detailed information on this time-saving concrete made with standard *Universal* cement gladly furnished on request to

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland New York

Concrete for Permanence

Waterworks (Continued)

stokers, $40,000; two air preheaters, $20,000; coal and ash handling equipment, $68,000; all installed at new waterworks at Howards Bend, St. Louis Co. E. E. Hall, City Hall, dir.

Okla., Frederick — Taking bids 1 m. g. circular rein.-con. reservoir and storm sewer in various streets. $50,000. Benham Eng. Co., 512 Gumble Bldg., Kansas City, Mo., engrs. Noted Nov. 26.

Ore., Medford—Mar. 9, by Water Comn., waterworks complete, incl. approximately 30 mi. 20- to 25-in. steel pipe and between 3,500 and 4,000 steel plates, etc. $1,000,000. D. C. Hebring, Spalding Bldg., Portland, engr.

Calif., San Rafael—Mar. 16, by E. R. Prentice, secy. Bd. Directors Marin Co. Municipal Water Dist., 468 4th St., supplying, also supplying and installing 7,346 ft. 30 in., and 29,504 ft. 26 in. welded steel pipe, in Marin Municipal Dist.; adv. E. N.-R. Feb. 25. Noted Aug. 20.

Ont., Belle River—Mar. 8, by M. Forget, village clk., waterworks, Constrs. C to G (inclusive) 20,000 ft. 6 in. c.i. pipe, valves, pumphouse, elevated tank, etc. $40,000. A. W. Connor & Co., Metropolitan Bldg., Toronto, engr.

Ont., London—See "Unclassified."

Ont., Toronto—Mar. 1, by F. B. Goedike, comr. Works, 40 Jarvis St., York Twp., 1,500 lengths 6 in. and 200 lengths 12 in. c.i. pipe, hydrants, valves, etc.; 25 tons ½ in. and 7½ tons ⅝ in. lead pipe, 15 tons pig lead and 1¼ tons ½ and ⅝ in. copper pipe; cocks, etc.; sewer and waterworks c.i. covers; 1,250 tons 1 and 2 in. crushed stone; and 200,000 gal. road oil. $150,000.

Alta., Edmonton — Mar. 15, by City Comn., 9,480 lin.ft. 4- to 20-in. c.i mains, valves, 40,000 lbs. ¾ in. lead pipe, etc., for Dept. Waterworks. K. A. Blatchford, mayor.

BIDS RECEIVED

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Feb. 19, mains in Ely Ave., Sunswick, 47th Sts., etc. also in 60th Ave., Dartmouth St., etc. 2nd Ward, from Norton & Rigney, 137th St., Richmond Hill, $6,666 and $4,944 respectively. Noted Feb. 11.

Md., Baltimore—Mayor and City Council, electrical equipment for addition to Montebello Filters, from Hitt & Brown, 137 West Charlotte St., Norfolk, Va. $28,534.

CONTRACTS AWARDED

Pa., Easton—Lehigh Water Co., 7 m.g. reservoir, to J. S. McCormick Co., Easton, $150,000.

Fla., St. Augustine—See "Unclassified."

O., Cincinnati—Director Pub. Serv. 73,300 ft. 4- to 12-in. mains in various streets, to M. F. Quill, 409 Gerke Bldg., $84,946, engrs. est. $75,000; also 875 tons 4- to 12-in. c.i. pipe, to U. S. Cast Iron Pipe Co., Addyston, $49,000, engrs. est. $50,000. Noted Jan. 21 and Feb. 11.

Wis., Wauwatosa—Bd. Purchases, A. V. Brigham, secy., to H. W. Evans, 53 West Jackson Blvd., Chicago, Ill., 50 fire hydrants at $79 each; to Michigan Valve & Fdry. Co., 3631 Parkinson St., Detroit, Mich., fifty 6 in. gate valves $22.80, and twelve 12 in. gate valves $68.20; to J. B. Clow & Sons, 544 South Franklin St., Chicago, Ill., seventy-five 6 in. roadway boxes $5.45; to Rundle-Spence Mfg. Co., 55 4th St., Milwaukee, one thousand ¾ in. cocks at $0.63 each, three hundred ⅝ in. corporation cocks $0.55, one thousand 1 in. curb cocks $0.95, three hundred each ¾ in. stops $0.65, ⅝ in. $0.52 and ¾ in. stops $0.67, also six hundred each ¾ in. couplings $0.13 and ¾ in. couplings $0.20. Noted Feb. 11.

Mo., Republic—Complete waterworks and distribution system, incl. tank on tower, pumping equipment and several miles mains, to R. McSweeney, 555 North Division St., Springfield, $56,637.

Ore., Oswego—Waterworks, to C. E. Torkelson, c/o United Constr. Co., North West Natl. Bank Bldg., Portland, $33,642.

Calif., Wasco — Director Wasco Public Utility Dist., 100,000 gal. steel tank on 100 ft. tower, to Pittsburgh-Des Moines Steel Co., Rialto Bldg., San Francisco, $8,699. Noted Feb. 18.

Sewers

PROPOSED WORK

N. Y., Buffalo—Making preliminary plans 500 lin.ft. 8½ x 8½ ft., rein.-con. sewer in New Bailey Ave. $25,000. C. E. P. Babcock, Municipal Bldg., engr.

Ga., Atlanta—Election Mar. 24, $2,000,000 bonds, sewers in various streets. W. Sims, mayor. Noted Jan. 21.

Ga., Decatur—See "Waterworks."

Mich., Royal Oak (br. Detroit)—Triangle Development Co., making plans 26,000 ft. 12 to 42-in. vitr. and concrete sewers, etc. in Huntington Woods Manor, Royal Oak Twp. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Ill., Alton—See "Streets and Roads."

Ill., Grayslake—See "Waterworks."

Wis., Appleton—Making plans 2 story, 72 x 225 ft., rein.-con. and brick, combined sewage disposal plant and garage, plain foundation, North Walnut St. $40,000. R. M. Connelly, City Hall, engr.

Ia., Boone—Takes bids in April sewage disposal plant with auxiliary equipment. $100,000. Currie Eng. Co., Webster City, engrs. Noted Jan. 14.

Tex., Alice—Making plans sewerage system. $50,000. J. H. Briggs, 2033 North Nueces St., San Antonio, engr. Noted Jan. 28.

Tex., Grapevine—Election Mar. 10, $30,000 bonds, complete sewerage system and disposal plant. F. J. Von Zuben, 611 Dan Waggoner Bldg., Ft. Worth, engr.

Tex., Runge—Election soon $30,000 bonds, sewers in various streets. Address A. C. Nusom, mayor.

California—Cities of Monrovia, Arcadia and Sierra Madre making surveys joint sewage disposal plant. To exceed $25,000. H. S. Gierlich, Monrovia, city engr.

Calif., Los Angeles—Made plans 8- to 12-in. vitr. sewer in Sawtelle Blvd. between Ohio and Pico Blvds., to exceed $25,000; also 29,558 ft. 6- to 10-in. cement sewer, etc., in 3rd and Santa Barbara Ave. Sewer Dist. J. C. Shaw, City Hall, city engr.

Calif., Oakland — Making plans monolithic sewer north end Key Route Fill west of subway, 3,500 lin.ft. long, ½ to be 3x6 ft. reinforced and balance 6x6 ft. rein.-con. box, all sewer on pile and timber foundation, also 300 to 400 ft. 6x14 ft. box sewer at outer end. W. W. Harmon, city engr.

Calif., San Fernando—Plans 8- to 18-in. vitr. or cement sewers in Sewer Dist. 1, portions of Porter Ave. and Reynolds St. To exceed $25,000.

Calif., San Francisco—See "Streets and Roads."

Calif., Sonoma — Plans election $35,000 bonds, extending sewerage system.

Calif., Ventura—Making plans 2,000 lin. ft. 18 in. wrought iron outfall sewer, in various streets, $40,000; also sewer screening plant to handle 50,000 people, $50,000. C. W. Pierce, city engr.

Calif., Victorville—Directors Victorville Sanitary Dist., rescinded contract lateral sewers in various streets. Noted Jan. 7.

BIDS DESIRED

Pa., Pittsburgh—See "Streets and Roads."

Pa., Pittsburgh—Taking bids 18- to 36-in. sewers in Phillips Ave. to Nine Mile Run. $42,000. City Dept. of Pub. Wks., City County Bldg., engrs.

Md., Baltimore—Mar. 3, by Bd. Awards, storm drains and sanitary sewers in Sewer Dists. G-2, G-13, and P-9 as listed in Storm Water Contr. 89. M. J. Ruark, 311 Courtland St., sewerage engr.

Ill., East St. Louis — See "Streets and Roads."

Ill., Winchester—Takes bids about Mar. 15, sewage disposal plant and 36,620 ft. 6- to 12-in. sewers, etc. in various streets. $68,624. W. A. Fuller Co., 1917 Ry. Exch. Bldg., St. Louis, Mo., engrs.

Tex., Wichita Falls—Mar. 17, by R. E. Shepherd, mayor, at office W. E. McBroon, city clk., sewage treatment works. Montgomery & Ward, 545 Harvey-Snider Bldg., consult. engrs.; adv. E. N.-R. Feb. 25.

BIDS RECEIVED

N. C., Charlotte—Bd. City Comrs., Feb. 16, sewers in various streets, from V. B. Higgins & Co., Charlotte, $38,969. Noted Feb. 4.

Wis., Milwaukee—Dept. Pub. Wks., Feb. 11, 118 ft. 72 in. storm sewers in Lake St., from Mierswa Constr. Co., 1619 Oregon St., Oshkosh, $6,438; and 4,815 ft. 8 to 30 in. vitr. sewer in St. Paul Ave. also 661 ft. 8- to 12-in. in 22nd St., from P. & L. Co., Edgewater Ave., $11,844 and $1,241 respectively.

Wis., Milwaukee—Dept. Pub. Wks., storm sewers in Sect. 4, 2,245 ft. 10 in. monolithic concrete pipe, from Wenzel & Henoch Constr. Co., 498 27th St., $204,582; Sect. 5, 26th St. between Brown St. and North Ave., from J. Brogan & Sons, 211 Grand Ave., $102,786; Sect. 6, 26th St. between North and Kilbourn Aves., Kilbourn Ave. between 26th and 27th Sts., and 27th St. between Kilbourn Ave. and Center St. from M. Synovitz, 944 2nd Ave., $138,217. Noted Feb. 4.

Calif., Los Angeles—From M. J. Simonovich, 727 Alpine St., sewer in Milton Ave. between Melrose and 3rd Sts. 32,659 ft. house sewers $1.35 per ft., cement sewer complete $29,972; from J. Chutuk, 5120 Huntington Dr., Burnside Ave. between 6th St. and Wilshire Blvd., 9,330 ft. house sewers $1.10, sewer complete $16,519. Noted Feb. 11.

CONTRACTS AWARDED

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, to W. H. Garson, 5033 Brown St., branch sewer in Fairhill St. $5,832, to Vettieri & Pontarelli, 523 Rising Sun Ave., Franklin St. $6,957, and Spencer St. $9,975; to A. D. Sandro & Son, 3906 North 5th St., 4th St. between Tabor Rd. and Clarkson St. $1,940, and 63rd St. between Dicks and Gibson Sts. $2,941, to H. H. Pizagno, 907 South 13th St., 48th St. between Chester and Springfield Sts. $5,570, M St. between Hunting Park and Lycoming St. $6,240, and Theodore St. between 69th and 70th Sts. $5,851, to V. S. Campellone, 812 West Venango St., Glenmore St. between 65th and 66th Sts. $3,840, Johnston St. between 18th and 19th Sts. $4,023, Ruth St. between Venango and Atlantic Sts. $3,362; to E. F. Bennis, 825 East Washington Lane, Grange St. $10,989, Opal St. between Church and Champlost Sts. $7,416, to A. Perna & Son, 752 South 10th St., Lauriston St. between Kingsley and Markle Sts. $8,664, to McIntyre Constr. Co., 6811 North Franklin St., Marshall St. between Johnston and Bigler Sts. $5,605, to Clifton Constr. Co., 131 East Berkley St., Clifton Heights, Sheridan St. between Johnston and Bigler Sts. $5,794, and to W. H. Yetman Co., Lincoln Bldg., drainage storm water culvert in 40th Ward, $128,130. Grand total $223,129.

Fla., St. Augustine—See "Unclassified."

Ill., Springfield — Trustees Springfield Sanitary Dist., West Side Intercepting Sewers, Div. 3, North Sect., 9,000 ft. 66- to 69-in. sewers, 5,650 ft. to be open cut, 560 ft. in fill, 600 ft. tunnel and 2,100 ft. trestle sewers, etc., to F. Schofner, Atchison, Kan., $269,264; Div. F, Tunnel Section, 7,700 ft. 57 in. intercepting sewers, 3,300 ft. to be in tunnel, 4,400 ft. in open cut, also connection with Bond St., Patton Ave. and Town Beach sewers, to H. C. Willadson Constr. Co., Springfield, $211,000; Div. G, Jacksonville Beach Sewers, 42,200 ft. 15- to 39-in. sewers, also Town Branch syphon and connections with Oakridge, Amos Branch, Oak Knolls, Country Club and other sewers, to Sangamo Constr. Co., Springfield, $312,500. Grand total $792,764. Noted Jan. 7.

Calif., Los Angeles—Rein.-con. storm drains in Melrose Ave. between Citrus Ave. and Poinsetta Pl., to Ballis & Petros, 1350 West 4th St., $26,680. Noted Dec. 24.

Waste Disposal

PROPOSED WORK

Fla., Miami—Voted $400,000 bonds, additional incinerators, etc. Noted Jan. 14.

Bridges

PROPOSED WORK

Ga., Atlanta—Election Mar. 24, $1,000,000 bonds, for viaducts. W. Sims, mayor. Noted Jan. 21.

Fla., Miami—Voted $1,800,000 bonds, 5 bridges, one at or near Northwest 2nd St., one Northwest 12th Ave., one Northwest 17th Ave., one Southwest 1st St., and other Southeast 2nd Ave., all over Miami River. Noted Jan. 14.

Tennessee — State Dept. Highways & Wks., Nashville, plans bridge over Wolf River, on Memphis-Bristol Highway, Shelby Co. To exceed $25,000. C. N. Bass, acting comr.

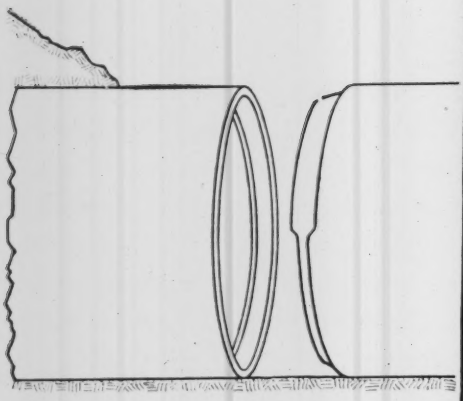
Tenn., Fayetteville — Lincoln Co. and State Dept. Highways & Pub. Wks., Nashville, plan bridge over Elk River, near here. County to appropriate $20,000 and State $40,000 towards cost. C. N. Bass, acting comr.

Tenn., Nashville—Davidson Co. election Aug. 4, $1,000,000 bonds, bridge over Cumberland River near Old Hickory.

Kentucky — State Hy. Dept., Frankfort, plans one 275 ft. steel and five 50 ft. concrete approach span bridge over Kentucky River at Camp Nelson, Jessamine and Garrard Counties, two 162 ft. steel and nine 40 ft. approach span bridge over Levisa Fork of Big Sandy River, Pike Co.; and two 124 ft. span steel deck girder bridge over Big Clifty Creek, Grayson Co., all above to have 20 ft. roadways. E. N. Todd, highway engr.

Montana — Mineral Co. (Superior), election Mar. 9, $55,000 bonds 3 main and 4 approach span approximately 425 ft. steel bridge. State Hy. Comn., Helena, engr.

See proposal advertisements on page 132, Advertising Section.



In laying INDEPENDENT Pipe, the bottom half of the joint is sealed on the INSIDE—the top half on the OUTSIDE. Perfect joints are possible in a deep, narrow trench, as illustrated at right.

Tight, Smooth Pipe Joints

Easy to Make—Even in Deep, Narrow Trenches

IN some sewer pipe, the joint is the "weakest link," but in INDEPENDENT Pipe, it is the strong point. The recessed joint, found only in INDEPENDENT Reinforced Concrete Sewer Pipe makes it possible to construct strong, smooth, tight joints with a minimum of time, labor and material.

As each unit is fitted, a stiff cement mortar is trowelled into the recess of the upper half OUTSIDE the pipe and into the recess of the lower half INSIDE the pipe. This quickly makes a perfect, permanent joint, with a clean, smooth interior, and a uniform exterior.

The trench need be excavated only wide enough to receive the pipe. No flaring bell ends—no extra excavation. Remember—the joints are sealed half-way around on the OUTSIDE and half-way around on the INSIDE. This feature is especially valuable in laying pipe in wet, muddy or other difficult soil conditions.

Phone, wire or write us for quotations on your concrete pipe requirements.

Sales Agencies

BELOIT, WISC.
Ills.-Wisc. Concrete Pipe and Tile Co.
C. E. RICHARDSON, Mgr.

CHICAGO, ILLS.
Illinois Concrete Sales Co.
603-4 City Hall Square Bldg.
FRANK NOVONTY, Mgr.

COLUMBUS, OHIO
Ohio Sales Agency
300 South High St.
E. W. HAWKE, Mgr.

OKLAHOMA CITY
Concrete Pipe Co. of Okla.
203 Grain Exchange Bldg.
E. A. BARNES, Mgr.

INDEPENDENT CONCRETE PIPE CO., 202 N. West St., Indianapolis, Ind.

ENR. 2-25

INDEPENDENT

Reinforced Concrete Pipe

Bridges (Continued)

Ark., Fulton — State Hy. Dept., Little Rock, plans rein.-con. bridge, here. $500,000. R. C. Limerick, highway engr.

Tex., Abilene — Making plans rein.-con. and steel bridge over Raney and Lytle Creeks. $96,000. L. C. McCanlies, Abilene, co. engr.

Tex., Franklin—See "Streets and Roads."

Tex., Groesbeck — See "Streets and Roads."

Tex., Palestine—Anderson Co. (Palestine) and Cherokee Co. (Rusk) making plans 0.91 mi. timber pile bridge across Trinity River, here. $54,600. E. W. Davis, Palestine, co. engr.

Tex., Quanah—See "Streets and Roads."

Ont., Forest Hill—Plans 66 ft. concrete and steel bridge on Millbrook Ave. or Lonsdale Rd. $70,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Toronto — City Council plans removing present bridge and constructing approximately 300 ft. concrete and steel bridge, on Huntley St. $127,000. R. C. Harris, City Hall, engr.

BIDS DESIRED

West Virginia—See "Streets and Roads."

South Carolina — Mar. 16, by State Hy. Dept., Columbia, one 180 ft. steel swing span bridge on reinforced concrete pile pivot pier across Santee River, Charleston-Georgetown Counties, on State Route 40, Federal Aid Project 39-B. State Highway Engineer, Columbia, engr.

Fla., Tampa—Mar. 30, by City Comn. at office city clk., City Hall, bridge over Hillsborough River, at Fortune St. R. D. Martin, city engr. Strauss Bascule Bridge Co., 307 North Michigan Ave., Chicago, Ill., consult. engr.; adv. E. N.-R. Feb. 25.

Alabama—Mar. 10, by State Hy. Comn., Montgomery, 240 ft. double leaf simple trunion bascule bridge being channel span of concrete bridge (now being constructed) across Tennessee River at Decatur, on State Aid Project 63, Limestone and Morgan Counties, 660,000 lb. structural steel, 25,000 lb. metal, 60,000 lb. operating machinery, 104,000 lb. c.i. balancing blocks, etc. W. A. McCalla, highway engr.

Louisiana—Mar. 30, by State Hy. Comn., Baton Rouge, Little River Bridge steel and concrete, and roadway approaches on Alexandria-Jena Highway, Federal Aid Project 164-B, LaSalle and Grant Parishes. W. B. Robert, Reymond Bldg., Baton Rouge, engr.

Tennessee—See "Streets and Roads."

Tennessee—Mar. 12, by State Dept. Highways & Pub. Wks., Nashville, **(S. A. P. means State Aid Project and F. A. P. means Federal Aid Project)**, 2 span 26 ft. earth filler rein.-con. arch bridge over Dry Fork Creek near Edenwold, S.A.P. 325-A, Davidson Co.; 2 concrete deck girder bridges and approaches over Little Trummel Creek and adjacent overflow channel, S.A.P. 127-C, also 2 concrete deck girder bridges and approaches over Lick and Bledsoe Creeks, S.A.P. 326-A, Sumner Co.; 5 rein.-con. bridges over 20 ft. span between Ellendale and Arlington, F.A.P. 36-C, Shelby Co.; 5 rein.-con. bridges over 20 ft. span between Union City and Kentucky State line, F.A.P. 64-A, Obion Co.; 3 rein.-con. bridges between Wartburg and Pilot Mountain, S.A.P. 300-C, Morgan Co.; 3 rein.-con. bridges over 20 ft. span between Morrison and Hawkins Co. line, S.A.P. 324, Hamblin Co.; 1 rein.-con. bridge over 20 ft. span between Etowah and Monroe Co. line, S.A.P. 322, McMinn Co. C. N. Bass, acting comr.

Indiana—Mar. 9, by J. D. Williams, State Hy. Comn., Indianapolis, **(S. R. means State Road, s.g. means steel girders, and s.t. means steel truss)**, two 84 ft. s.g. over Pennsylvania R.R. Traction, and two 150 ft. s.t. over County and Stucker Cr., on S.R. 1-D, Scott Co.

Ill., Chicago — Mar. 3, by South Park Comrs., 57th St. and Cottage Grove Ave., 432 ft. steel temporary bridge with 40 ft. roadway and 20 ft. walk, north of 11th Pl., L. White, ch. engr. Grant Park.

Neb., Bloomfield — State Hy. Dept., Lincoln, taking bids new 700 ft. concrete bridge buttressed by willow matresses over Niobara River, on Federal Aid Rd. 280-B, here. H. L. Cochran, Lincoln, state engr.

BIDS RECEIVED

Alabama—State Hy. Comn., Montgomery, Feb. 10, 425 ft. steel superstructure over Coosa River, State Aid Project 41, Cherokee Co., from Vincennes Bridge Co., Vincennes, Ind., $54,631, engrs. est. $61,567; 431 ft. bridge on Town Creek Rd., State Aid Project 101, Lawrence Co., from G. A. Thompson, Macon, Ga., $31,892, engrs. est. $32,532; 485 ft. bridge on Seale-Girard Rd., State Aid Project 50-B, Russell Co., from McCoy & Garrett, Lafayette, $31,193, engrs. est. $35,000; 1,800 ft. bridge on Federal Aid Project 150, Tuscaloosa Co., from Peterson & Ernhart, Montgomery, $77,928, engrs. est. $101,209. Noted Jan. 21.

Indiana — J. D. Williams, dir. State Hy. Comn., Indianapolis, **(e. e. means engrs. est.)** Feb. 16, bridge over Little Blue River, F. A. 58-B, Crawford Co., and one over Patoka River F. A. 58-D, Orange Co., Contr. 60, from Brown & Cunningham, English, $39,569 e. e. $41,170; bridge over Baltimore & Ohio R.R. tracks, F. A. 59 Sect. 3 Scott Co., Contr. 61, from J. F. Beggs & Co., Scottsburg, $29,386 e. e. $36,972; bridge over Otter Creek, F. A.-76-A1, and one over Spring Creek, F. A.-76-A2, Vigo Co., Constr. 62, from J. W. Dougherty & Sons, Framesburg, $52,112 e. e. $50,883; bridge over Lick Creek, F. A. 80, Fayette Co., Contr. 63, from Hoosier-General Constr. Co., Connersville, $7,932 e. e. $9,137; bridge over Indian Creek, S. 12 I-496, Owen Co., Contr. 64, from W. H. Grammer & Son, Evansville, $13,618 e. e. $14,659; bridge over Turkey Creek, S. 25-C-478, LaGrange Co., from J. E. Sweet & Sons, Woodburn, $8,697 e. e. $8,797; bridge over Plum Creek, S-31-E-399, and one over east branch Plum Creek, 31-E-400, Putman Co., Contr. 66, from Wasnidge & Leonard, Jasonville, $11,850 e. e. $13,396; bridge over Little Brady Creek, S-39-A-58, one over Lick Creek, 39-A-494, and one over Grassy Creek, 39-A-495, Marion Co., Contr. 67, from Kernodle & Fulwider, Lebanon, $22,093 e. e. $28,106. Noted Feb. 4.

Calif., Oakland—Supervs. Alameda Co.—Reconstructing steel bridge on Webster St. over Estuary, here, from J. H. Tillman, 310 East Cabrillo Blvd., Santa Barbara, $149,000 (complete in 120 days) and $134,000 (complete in 150 days). Noted Feb. 4.

CONTRACTS AWARDED

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, new 60 x 60 ft. steel and rein.-con. bridge under railroad tracks at Rising Sun Ave., to G. Dobbin, 1020 South 47th St., $90,320. Noted Feb. 4.

Florida — State Rd. Dept., Tallahassee, constructing 9 bridges between Bowling Green and Brownsville, Project 648-B, Hardee Co., to J. S. Walton & Co., Bradenburg, Ky. $75,662. Noted Jan. 14.

Fla., St. Augustine—See "Unclassified."

O., Cleveland—Cleveland Union Terminal Co., c/o O. P. and M. J. Van Sweringen, Marshall Bldg., piers 2,000 ft. steel and concrete bridge over Cuyahoga River, to J. Gill & Son Co., Bulkley Bldg., $500,000. Noted Aug. 20.

Ia., Sigourney—See "Streets and Roads."

Missouri—State Hy. Dept., Jefferson City, to Kelly & Underwood, Granby, three 20 ft. rein.-con. slab spans, etc. over McDougal Branch, Newton Co., $4,140; to R. M. Daviess & Son, Salisbury, one 30 ft. rein.-con. deck girder span, etc. over Pipes Creek, Howard Co., $6,057; to Graham Bros., Leeds, one 40 ft. rein.-con. deck girder span, etc. over Mams Creek, Audrain Co., $4,895; to K. MacFarland, Kansas City, three 45 ft. rein.-con. deck girder spans, etc. over Sulphur Creek, Howard Co., $13,096; to O. H. Schmidt, St. Joseph, four 20 ft. rein.-con. slab spans, etc. over Turkey Creek overflow $6,496, three 20 ft. rein.-con. slab spans, etc. over Turkey Creek $4,649, three 30 ft. rein.-con. deck girder spans, etc. over Elk Creek $10,430, and one 40 ft. rein.-con. deck girder span, etc. over Little Turkey Creek, $5,625, all foregoing in Linn Co.; to J. P. Sparks, Kirkwood, two 8 ft. rein.-con. slab spans, etc. over stream $4,941, two 25 ft. rein.-con. deck girder spans, etc. over Fraziers Creek $5,728, one 30 ft. rein.-con. deck girder span, etc. over Wards Creek $3,776, and one 40 ft. rein.-con. deck girder span, etc. over Bounds Creek $5,031, all foregoing in Wayne Co.; to Nevada Constr. Co., Nevada, two 10 ft. rein.-con. slab spans, etc. over stream $1,983, one 10 ft. rein.-con. slab span, etc. over stream $845, two 12 ft. rein.-con. slab spans, etc. over stream $2,077, one 60 ft. steel truss span, etc. over Robinson Creek $7,980, two 80 ft. steel truss and two 40 ft. rein.-con. deck girder spans, etc. over Clear Creek $22,358, all foregoing in Vernon Co.; to D. C. Horton, Fort Smith, Ark., two 10 ft. rein.-con. slab spans, etc. over stream $1,436, two 30 ft. and one 40 ft. rein.-con. deck girder spans, etc. over Panther Creek $5,393, both in St. Clair Co.; to M. E. Gillioz, Monett, two 8 ft. rein.-con. slab spans, etc. over stream $1,529, one 20 ft. rein.-con. slab span, etc. over stream $3,917, one 20 ft. rein.-con. slab span, etc. over branch of Turkey Creek $4,080, one 45 ft. rein.-con. deck girder span, etc. over Turkey Creek $6,453, one 45 ft. and two 30 ft. rein.-con. deck girder spans, etc. over Bear Creek $7,824, all foregoing in Wayne Co., three 20 ft. rein.-con., slab spans, etc. over Castor River overflow $4,654, one 140 ft. steel truss span, etc. over Castor River, $14,232, and two 140 ft. steel truss spans, etc. over Castor River $28,177, all in Bollinger Co.; to R. H. Harper, Constr. Co., Chillicothe, two 10 ft. rein.-con. slab spans, etc. over stream $2,326, fifteen 20 ft. rein.-con. slab spans, etc. over Big Parsons overflow $21,858, three 20 ft. rein.-con. slab spans, etc. over Hickory Creek $4,792, three 30 ft. rein.-con. deck girder spans, etc. over Big Parsons Creek $7,457, three 30 ft. rein.-con. deck girder spans, etc. over Little Parsons Creek $6,184, ten 20 ft. I-beam spans, etc. over Locust Creek overflow $9,334, ten 20 ft. I-beam spans, etc. over Locust Creek overflow $9,349, one 80 ft. steel truss and twelve 20 ft. I-beam spans, etc. over Locust Creek overflow $18,220, one 80 ft. steel truss and ten 20 ft. rein.-con. slab spans, etc. over Muddy Creek $20,543, one 80 ft. steel truss and four 20 ft. rein.-con. slab spans, etc. over Locust Creek overflow $15,415, and eight 20 ft. I-beam spans, etc. over Muddy Creek overflow $7,642, all foregoing in Linn Co.; to Finley Constr. Co., Nebraska City, Neb., one 80 ft. steel truss span, etc. over Contrary Creek, Buchanan Co., $9,904; to C. H. Atkinson Paving Co., Watertown S. D., one 20 ft. rein.-con. slab span, etc. over West Dog Creek, Daviess Co. $7,766, and one 72 ft. timber bridge on Sta. 225 plus 70, over No. 11, De Kalb Co., $1,495. Grand total $330,086. Noted Feb. 18.

Ark., Siloam Springs—See "Streets and Roads."

Tex., San Antonio—Bexar Co., 3 rein.-con. bridges one 215 ft. one 86 ft. and other 150 ft. long with two 125 ft. approaches, in Precinct 1, to Lehr & Aikin, 812 Builders Exch. Bldg., $75,185. Noted Jan. 7.

Okla., Mounds — State Hy. Dept., Oklahoma City, 2 span 116 ft. steel truss bridge on concrete piers, Creek Co.; here, 23 tons truss steel, 16.4 tons reinforcing, etc., to E. T. Fike & Co., Nebraska Bldg., Tulsa, $23,957. Engrs. est. $26,000. Noted Jan. 21 under "Oklahoma."

Dams

PROPOSED WORK

Tex., Austin—State Bd. Water Engineers, Austin, making preliminary surveys 1 large and several smaller dams on Colorado River, to produce power development and irrigation supply, above here. $2,000,000 or more. Address State Bd. Water Engineers.

Railways

PROPOSED WORK

Florida — City of Miami voted $350,000 bonds, extending tracks, etc. in Miami. Noted Jan. 14.

Saskatchewan—Canadian Natl. R.R. Co., 230 St. James St., Montreal, Que., soon takes bids 44 mi. track through Turtleford, $1,571,000; also for Dunblane-Central Butte Branch, $1,000,000. C. S. Gzowski, 230 St. James St., Montreal, Que., ch. constr. engr.

CONTRACTS AWARDED

Michigan — Dept. Street Railways, St. Jean and Shoemaker Aves., Detroit, H. U. Wallace, genl. mgr., 250 tons girder rail, to Lorain Steel Co., Johnstown, Pa., at $71 per ton, total $17,750.

Excavation, Drainage, Irrigation, Levees River and Harbor

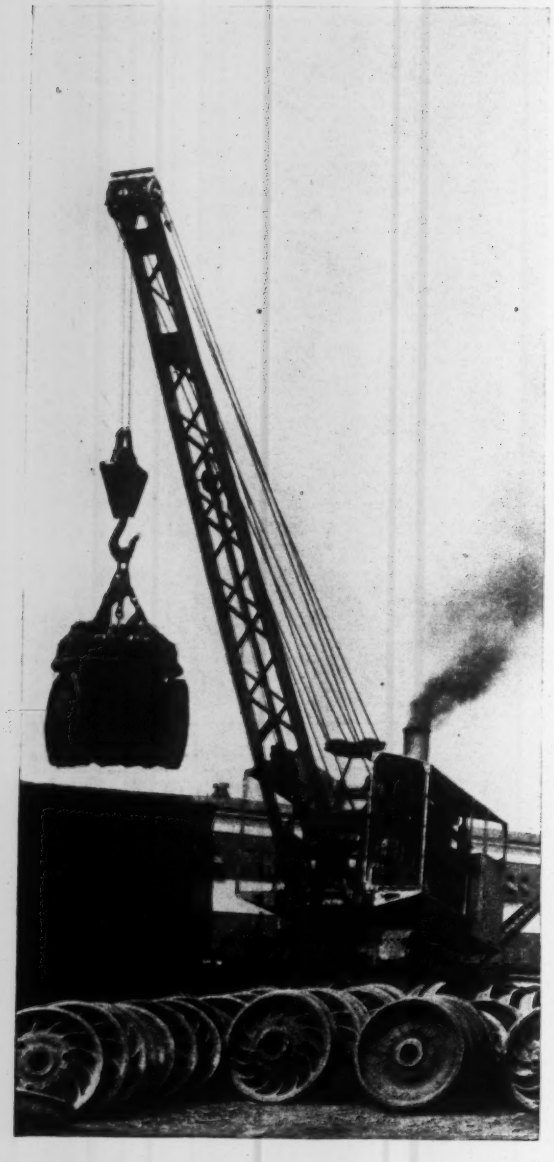
PROPOSED WORK

Arkansas—Pocket Cypress D. D. 1, Pulaski and Jefferson Counties, making preliminary plans lateral ditches, No. 1, Daugherty Lake Old Levee Canal, 9,216 ft. long, incl. 16,560 cu. yd. excav.; No. 2, Daugherty Lake to Pike, 600 ft. long, 1,810 cu.yd. excav.; No. 2-A, 1,000 ft. long, 3,870 cu.yd. excav.; No. 3, 8,000 ft. long, 2,925 cu.yd. excav.; No. 4, 4,620 ft. long, 9,369 cu.yd. excav.; No. 5, 5,600 ft. long, 11,061 cu.yd. excav.; No. 6, 4,000 ft. long, 8,730 cu.yd. excav. E. M. Fever, chn.

Ark., Newport—D. D. 14, c/o Jackson Co. Court, making preliminary plans 200,000 cu.yd. excav. in drainage ditches, etc. Bowman-Morrow Eng. Co., 201 Court House, engrs.

Tex., Brownsville — Cameron Co. soon takes bids portion of levees, etc., along

See proposal advertisements on page 132, Advertising Section.



INDUSTRIAL

THE CRANE THAT STAYS YOUNG

THE ordinary crane ages rapidly. A regular diet of tough work and occasional doses of abuse, assure the average crane a hard life and sometimes a premature death. But the INDUSTRIAL type DC crawling tractor crane, shovel and dragline is a master of old age. Here's why:

All castings are steel. The shafts are of forged steel of ample size and are accurately ground. The gears are all accurately cut or ground and fitted by hand. All functions are controlled by large, easily-engaging friction clutches. Bronze collars are provided behind each bevel gear and the wearing surfaces of all thrust bearings are separated by bronze washers.

The tractor belts are made up of heavy, high carbon, heat treated, cast steel shoes of overlapping design, which present a smooth, continuous bearing surface to the ground. The rollers in the tractor belts are of the self-cleaning type. They are large, making the machine easier to propel. The large, wide roller path reduces internal stresses and strains to a minimum. A Zerk-Alemite high pressure lubricating system is supplied which provides for ample lubrication to all running parts.

There are no chains in the propelling mechanism. Two independent trains of spur and bevel gears lead from powerful friction controls to the tractor belts through two concentric vertical propelling shafts at the axis of revolution. The INDUSTRIAL gear drive is high up out of the dirt with ample clearance underneath, and the gears are designed to withstand the strains of full power application at any time. The operator controls the steering easily from his position on the machine.

You don't have to coddle INDUSTRIALS. Treat 'em rough,—they like it. All parts defy hard usage. They will withstand enormous strains. Owners are insured against breakage by crystallization, overwork, indigestion—everything except dynamite and violation of our directions as to operation.

Why not buy an INDUSTRIAL type DC.—a young crane that stays young? They are powered either with steam, gasoline, electricity or fuel oil engine of the Diesel or semi-Diesel type. We will consider it a pleasure to send you our booklets describing the type DC in detail.

Write us today

INDUSTRIAL WORKS

BAY CITY MICHIGAN

Excavation, Drainage, Irrigation, Levees, River and Harbor (Cont.)

Rio Grande River for flood prevention. $1,500,000 bonds available. W. O. Washington, Brownsville, engr.

Tex., Hidalgo—Hidalgo Co. soon takes bids portion of 150 mi. flood prevention project along Rio Grande River. $1,620,000 bonds available. P. S. Devine, Hidalgo, co. engr.

Tex., Rockport City—County Navigation Dist. soon takes bids 55,000 cu.yd. dredging, timber bulkhead, etc., in Aransas Co. $125,000. F. M. Percival, Rockport, engr.

Calif., Riverside—Moreno Mutual Irrigation Co., Citizens Natl. Bank Bldg., made plans 31,000 ft. 24 in. riveted steel and concrete pipe line, also 2,500 ft. short tunnel. G. G. Holyoke, 203 Citizens Natl. Bank Bldg., engr.

Calif., Terra Bella — Terra Bella Irrigation Dist., made plans 2,800 ft. 18 in. 14 gauge, 500 ft. 10 in. and 500 ft. 8 in. 16 gauge soil proof water pipe in district.

Ont., Westminster—Twp. Council making plans 7 mi. draining and dredging. $50,000. F. W. Farncombe, Dominion Savings Bldg., London, engr.

BIDS DESIRED

New Jersey—Mar. 12, by Bd. Commerce & Navigation, State House, Trenton, redredging about 40,000 cu.yd. inland waterway from Cape May to Bayhead, Swains and Richardsons Channels, Cape May Co. V. Gelineau, dir.; adv. E. N.-R. Feb. 25.

New Jersey—Mar. 12, by Bd. Commerce & Navigation, State House, Trenton, V. Gelineau, dir., dredging from wharf at Leeds Point to point in Great Bay 600 ft. easterly from Oyster Creek, Galloway Twp., Atlantic Co.; adv. E. N.-R. Feb. 25.

Ia., Ft. Dodge—Mar. 2, by Bd. Supervs. Webster Co., cleanout of Drain 5, and laterals incl. 74,553 cu.yd. excav., etc. J. W. Martin, co. aud.; adv. E. N.-R. Feb. 25.

Minn., St. James—Mar. 10, by J. E. Setrum, aud. Watonwan Co., constructing Judicial Ditch 23, main line 9,750 lin.ft. 8- to 24-in. Branches 1 to 9 (inclusive) 19,050 lin.ft. 6- to 24-in. tile, etc. E. P. Meyer, I.O.O.F. Bldg., Mankato, engr.

BIDS RECEIVED

O., Cleveland—From Great Lakes Dredge & Dock Co., Williamson Bldg., dredging (1) Cuyahoga River (2) under and around bridges, (a) inner dump (b) outer dump, (1a) $58,500 (1b) $80,800, (2a) $12,710 (2b) $15,210. Noted Feb. 4.

CONTRACTS AWARDED

La., Shreveport—W. A. Kerley, secy. Caddo Levee Dist., Caddo Parish, improving drainage Black Bayou from Houston-Vivian Highway to Huckalogs Bridge, etc., to J. R. Johnson, Texarkana, Ark., at $0.14 per cu. yd., and $490 clearing mile. Noted Dec. 10.

Calif., Los Angeles—City Water & Power Comn., 500,000 cu.yd. canal excav., to Callahan Constr. Co., California Bldg., $0.14 per yd.

Streets and Roads

PROPOSED WORK

Conn., Hartford—Plans asphalt on concrete or concrete paving 5,000 ft. New Britain Ave. from Fairfield, to Newington Aves. $105,400, 2,000 ft., Elm St. from Main to Trinity Sts. $34,380, 2,000 ft. Blue Hills Ave. from Westbourne Parkway to Plainfield St. $30,250, 4,500 ft. Asylum St. from Woodland to Prospect Aves. $72,100, 2,000 ft. Franklin Ave. from Maple Ave. to Benton St. $44,400. R. N. Clark, Hartford, engr.

Conn., New Haven—Plans grading, paving, etc., Fitch St. from Hamden to Westville, 80 ft. $73,100. E. Nettleton, New Haven, city engr.

N. Y., Kenmore (mail Buffalo)—Plans concrete widening 5 mi. Elmwood and Kenmore Aves., 80 and 99 ft. To exceed $40,000.

New Jersey—Middlesex Co. (New Brunswick), plans improving 3 mi. Woodbridge-Rahway Reformatory Rd. $145,000. W. F. Buchanan, Perth Amboy, engr.

N. J., Bound Brook — Somerset Co. (Somerville), plans paving 4 mi. Easton Turnpike and Easton Ave., here. $190,000. O. Smith, Jr., Somerville, engr.

N. J., Phillipsburg — Warren Co. (Belvidere) plans improving 5 mi. Lincoln Ave. and Phillips-Belvidere Rd., here. $220,000. H. Vetter, Belvidere, engr.

Pa., Pittsburgh—Soon takes bids grading, curbing and paving Breckenridge St. between Reed and Morgan Sts., 38 ft. $68,000. Dept. Pub. Wks., ch. engr.

Fla., Miami — Voted $3,200,000 bonds, widening and extending various streets. Noted Jan. 14.

Miss., Starkville—Oktibbeha Co. election Mar. 2, $450,000 bonds improving various roads.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 6 mi. Henderson-McNairy Co. line Rd., Chester Co. C. N. Bass, acting comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, plans probably concrete paving 4.5 mi. Dyer-Rutherford Rd., Gibson Co.; improving 10 mi. Chattanooga-Cleveland Rd., Hamilton Co.; and 7 mi. Ellendale-Bartlett Rd., Shelby Co. C. N. Bass, acting comr.

Tenn., Nashville — Plans grading and macadam surfacing 4th, Dakota, 53rd, Nevada, Richland and Dudley Aves. To exceed $25,000. W. W. Southgate, City Hall, engr.

Tenn., Nashville — Davidson Co. plans grading and surfacing 8 mi. Belleview-Linton Rd. C. Akers, Court House, co. engr.

Kentucky — State Hy. Dept., Frankfort, rejected bids Feb. 8, grading, etc. 3.59 mi. Richmond-McKee Rd., Federal Aid Project 129-B, Madison Co.; and holding in abeyance grading, etc. 4.064 mi. Columbia-Greensburg Rd., Federal Aid Project 143-A, Adair Co. E. N. Todd, highway engr. Noted Feb. 18.

Kentucky — State Hy. Dept., Frankfort, takes bids probably in April, grading, etc. 11.5 mi. Hazard-Whitesburg Rd. Knott Co., 10 mi. Jackson-Hazard Rd. Breathitt Co., and 9.5 mi. Livermore-Beech Grover Rd., McLean Co.; grading and gravel surfacing 7 mi. Owensboro-Stanley-Ohio River Rd., Daviess Co.; surfacing 5 mi. Pacio-Pates-Ohio River Rd., Daviess Co.; reconstructing and surfacing 11.75 mi. Danville-Liberty Rd., Lincoln Co., and 11.5 mi. Maynesville-Germantown Rd., Mason Co., all 24-28 ft. wide. E. N. Todd, highway engr.

O., Akron—Plans grading, curbing, walks and vitr. brick paving 5,650 sq.yd. Gertrude St. et al., 22 and 24 ft. $44,400, 13,260 sq.yd. Inman St. 26 ft. $101,200 and 1,540 sq.yd. Fairbanks Pl., 13 and 18 ft. $21,800; grading, walks, sewers and vitr. brick paving 670 sq.yd. High St. alley, 14 ft., $6,300; grading, curbing, ornamental lighting system and vitr. brick paving 6,055 sq.yd. Bacon Ave., 24 ft. $38,900, 7,700 sq.yd. Sunset View and Stadelman Aves., 24 ft. $72,000. E. A. Kemmler, Municipal Bldg., engr.

O., Hamilton — Butler Co. made plans grading, gravel surfacing, etc., 3 mi. Hamilton-Lebanon Rd. $30,000, 6 mi. Hamilton-Richmond Pike Rd. $58,000, 3½ mi. Venice Rd. from Oxford-Millville Rd., northwest $27,000, 1¼ mi. Hamilton-Lebanon Rd. $18,000, all 18 ft.

O., Parma (Cleveland P. O.)—Cuyahoga Co. (Cleveland) making plans and takes bids in summer paving Albertly, Bradley, Charles, Luelda, Maplecrest, Theota, Tuxedo, Velma, Walters and Wilbur Aves., Belmore, Buckingham, Chestnut Hills, Forestwood, Grantwood, Hollywood, Manchester, Maplecrest, Renwood, Sheraton and Southington Drives, Allanwood, South Canterbury and Stanbury Rds., here, $1,228,000; also takes bids soon sidewalks on above streets, $80,000. R. F. MacDowell, 1770 East 11th St., Cleveland, engrs.

Mich., Detroit—Making plans 3½ in. sheet asphalt on 8 in. concrete paving 6,800 sq.yd. Charest Ave. $33,980, and 3,400 sq.yd. Dickerson Ave. from Canfield to Warren Aves. $18,190, both 30 ft.; 2,500 sq.yd. Eureka Ave. $12,600, 800 sq.yd. Delta Ave. $2,420, and 3,600 sq.yd. Caldwell Ave. $17,640, all 28 ft.; also 20,100 sq.yd. Dickerson Ave. from Warren to Harper Aves., 50 ft., $92,500. P. A. Fellows, City Hall, engr.

Ill., Alton—Soon takes bids grading, curbing and concrete paving Belle St., $40,795; also sewers in Adams Court, Dists. 1 and 2, $5,764. J. E. Schwaab, City Hall, engr.

Ill., Chicago—South Park Comrs., 57th St. and College Ave., soon takes bids asphaltic concrete paving 21,000 sq.yd. 11th St. to 16th St., and 16th St. to South Parkway, and 40,000 sq.yd. concrete walks, all in Grant Park; also resurfacing, etc. for Soldiers Field (Stadium). L. White, ch. engr.

Ill., East Alton — Making preliminary plans grading, curbing, guttering and 7½ in. concrete paving 21,770 sq.yd. Bway. and Main St. $75,000. Shepard & Morgan Eng. Co., Bank of Edwardsville Bldg., Edwardsville, engrs.

Ill., East St. Louis—Takes bids on or about Apr. 1, curbing and 8 in. concrete paving 20,650 sq.yd. 16th St., $98,100, and curbing and rein.-con. paving 3,860 sq.yd. 42nd St., $21,500. W. McK. Brown, City Hall, engr. Noted Jan. 7.

Ill., East St. Louis — Soon takes bids asphalt on concrete resurfacing 10 blocks St. Clair St. $70,000. W. McK. Brown, City Hall, engr.

Ill., Geneva—Takes bids in Spring grading, curbing and asphalt paving 85,000 sq.yd. various streets. $300,000. Wells Eng. Co., Geneva, engrs.

Ill., Grayslake—Village Clerk takes bids about Mar. 5, concrete paving 26,000 sq.yd. various streets. $135,000. Marr, Green & Co., 400 North Michigan Ave., Chicago, engrs. Noted Oct. 29.

Ill., Kewanee—Takes bids in April grading, curbing and hardsurfacing 20,750 sq.yd. various streets, $96,701; also takes bids in April or May 6,000 ft. 6 in. mains in various streets; $12,297. J. G. Palmer, City Hall, engr.

Ill., Mount Carmel — Wabash Co. takes bids in spring grading and gravel surfacing 22 mi. Road Dist. 2 and Lancaster Rd., 22,000 cu.yd. river gravel, etc. $54,000. D. A. McClung, supt. County Highway Dept.

Ill., Pana—Takes bids probably in spring, curbing and concrete paving various streets. $50,000.

Iowa—State Hy. Dept., Ames, takes bids about Mar. 2, grading 7.9 mi. Road 9 from Waukegan west Allemakee Co., 3.4 mi. Road 2 from Wiota to Atlantic Cass Co., 3.13 mi. Road 8 from Osceola west and 1.77 mi. Road 8 from Lucas Co. line west, Clark Co.; grading 1 mi. and gravel surfacing 24.7 mi. Road 2, Mahaska Co.; gravel surfacing 6.5 mi. Road 7 between Guthrie Center and Panora Guthrie Co., 18 mi. Road 20 Jackson Co., 9.4 mi. Road 28 from Monticello to Cascade Jones Co., 10 mi. Road 2 from Sigourney west Keokuk Co., 13 mi. Road 2, Marion Co., and 10 mi. Road 8 from Creston to Afton Union Co.

Ia., Ames—Takes bids in spring grading, curbing and various types paving 80,000 sq.yd. various streets. P. F. Hopkins, City Hall, engr.

Ia., Clinton—Clinton Co. voted $1,000,000 bonds, surfacing various roads. E. B. Lorenzen, Clinton, co. engr.

Ia., Iowa City—Johnson Co. voted $1,500,000 bonds paving 38 mi. and graveling 130 mi. various roads. G. M. Griffith, Iowa City, co. engr.

Kan., Erie — Neosho Co. plans grading, etc. 0.06 mi. Federal Aid Project 308-A, and 7.67 mi. same road Sect. B. C. P. Donald, Erie, co. engr.

S. D., Aberdeen — Plans paving various streets and alleys. $36,533.

S. D., Aberdeen—Comrs. Brown Co. plan gravel surfacing Bath—Stratford Rd., approximately $40,000; and grading Frederick-McPherson Co. Line Rd., approximately $25,000.

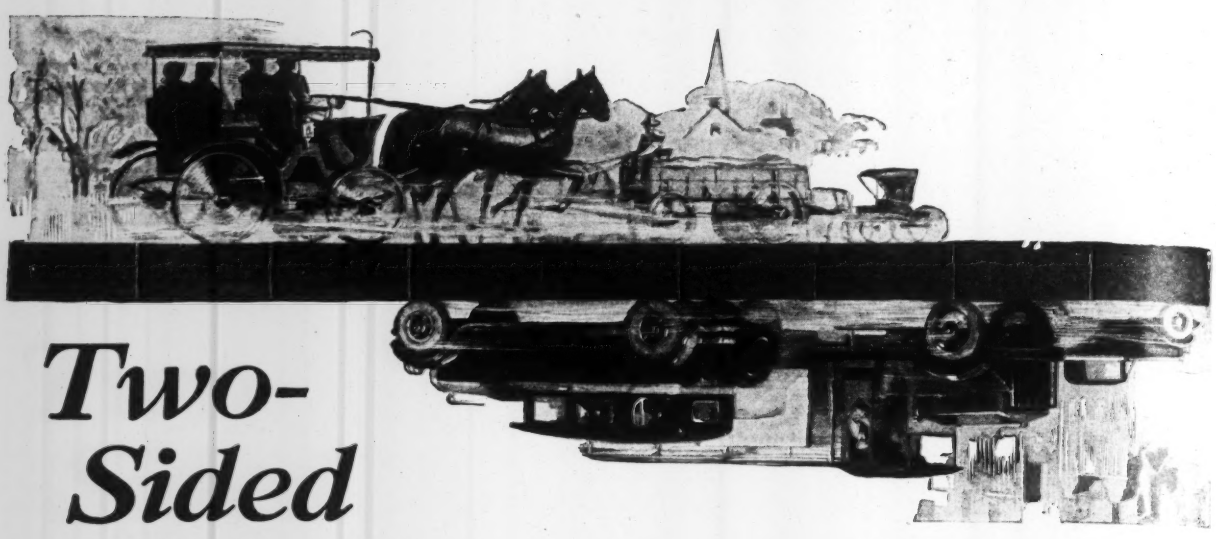
Missouri—State Hy. Dept., Jefferson City, making plans grading 7.242 mi. road from Fulton north Callaway Co., 4.5 mi. road from Albany east and west Gentry Co., 16.743 mi. Butler-Nevada Rd. Bates Co., 4.554 mi. roads from Lamar east and west Barton Co., 17.077 mi. roads from Kirksville north and south Macon Co., and 5.803 mi. same road Adair Co., also 10.09 mi. road from Princeton north and south, Mercer Co.; 30 ft. grading 4.5 mi. road from Warrensburg north Johnson Co., 9.7 mi. Clever-Nixa Rd. Christian Co., 2.596 mi. roads from Houston north and south Texas Co., 2.692 mi. road from Ava east and west Douglas Co., and 4.2 mi. Eminence-Salem Rd., Shannon Co.; 18 ft. gravel surfacing 8.5 mi. roads from Canton north and south, Lewis Co., 5.342 mi. road from Bolivar south Polk Co., 9.524 mo. road from Ava east and west Douglas Co., 4.5 mi. Salem-Ironton Rd., Iron Co., also 4 mi. West Plains-Gainesville Rd. and 16.786 mi. road from West Plains north and south, both Howell Co.; 9 ft. concrete paving 17.077 mi. road from Kirksville north and south, Macon Co. and 5.803 mi. same road Adair Co., also 9.171 mi. road from Princeton north and south, Mercer Co.; 18 ft. concrete paving 7.242 mi. road from Fulton north Callaway Co., 4.5 mi. road from Albany east and west Gentry Co., 16.743 mi. Butler-Nevada Rd., Bates Co., and 4.554 mi. road from Lamar east and west, Barton Co. B. H. Piepmeier, ch. engr.

Arkansas—State Hy. Dept., Little Rock, making preliminary plans grading, graveling, hardsurfacing, etc. 140 mi. various roads in Jefferson Co., $2,500,000; and reconstructing 1 mi. Conway-Damascus Rd. through Cardon and Beaver Form bottoms, 12 ft., Pulaski Co. R. C. Limerick, highway engr.

Ark., Ft. Smith—Postponed election Feb. 10, $500,000 bonds, paving South 7th, 8th, 10th and 12th Sts. E. Henderson, city clk. Noted Dec. 31.

Ark., Helena—Making preliminary plans and takes bids about Apr. 12, grading, curbing and paving Ohio St. from York to Walker Sts., Cherry St. from Perry to Walker Sts., Pecan St. from Perry to Walker Sts., Pecan St. from York to Poster Sts., Franklin St. from Miller to Donough

See proposal advertisements on page 132, Advertising Section.



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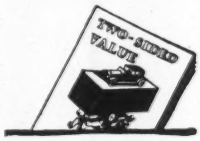


Pave with VITRIFIED **Brick** PAVEMENTS

OUTLAST THE BONDS

NATIONAL PAVING BRICK MANUFACTURERS ASSOCIATION, ENGINEERS BLDG., CLEVELAND, OHIO

Streets and Roads (Continued)

Sts., York St. from Walnut to Pecan Sts., Rightor St. from Ohio to Pecan Sts., Porter, Perry and Miller Sts. from Ohio to Cherry Sts., Mc.Donough St. from Ohio to Franklin Sts., McDonough St. from Columbia to Poplar Sts., and Walnut St. from Perry to McDonough Sts., Imprt. Dist. 16. To exceed $25,000. L. R. Parmelee, Helena, engr.

Tex., Anson — Jones Co. making plans gravel surfacing 17.8 mi. Highway 93. $74,000. J. W. Puckett, Stamford, engr.

Tex., Brownsville—Cameron Co. making plans improving 4 roads, from Brownsville to Los Fresnos; to Willacy Co. line; to Point Isabel; to Boca Chica and all rural communities from present paved roads. $1,750,000-$4,000,000. W. O. Washington, Brownsville, co. engr.

Tex., Eagle Lake—Making preliminary plans concrete paving 11 blocks various streets. $60,000. B. H. Faber, Eagle Lake, engr.

Tex., Hereford — Voted $67,000 bonds, paving 40-50 blocks various streets. Address E. S. Ireland, mayor.

Tex., Franklin — Roberton Co. making plans grading, bridging and bituminous macadam paving 9 mi. State Highway 6 between Calvert and Hearne, 18 ft. $200,000. L. A. Peterman, Hearne, engr.

Tex., Groesbeck—Limestone Co. making plans grading, bridging and 9 in. waterbound macadam paving 8.8 mi. State Highway 7, Mexica-Waco Rd., $385,000; also 4.92 mi. State Highway 14, between Mexica and Wortham, $226,800, both 18 ft. H. Bovette, Mexia, engr.

Tex., Quanah — Hardeman Co. making plans grading, bridging and concrete paving 8.48 mi. Highway 5 extending east from Childress Co. line, 18 ft. $313,000. J. B. Nabors, Quanah, co. engr.

Tex., Quanah — Hardeman Co. making plans grading, bridging and concrete surfacing 8.46 mi. Highway 5 extending west from Wilbarger Co. line, 18 ft. $332,000. J. B. Nabors, Quanah, co. engr.

Tex., Tyler—Election Mar. 12, $50,000 bonds, additional street paving. Address W. W. Prater, city mgr.

Okla., Frederick—E. U. Gamblin, mayor, rejected bids Feb. 4, paving 15 blocks various streets. Will readvertise. Benham Eng. Co., 512 Gumble Bldg., Kansas City, Mo., engrs. Noted Jan. 28.

Okla., Marlow—Making preliminary plans concrete paving 10,000 sq.yd. various streets. $20,000. G. L. Orr, city clk. Engineer not announced.

Okla., Wewoka — Making preliminary plans hard-surfacing 6 blocks various streets in business section. $35,000. Address City Commissioner.

Okla., Woodward — Plans paving 50 blocks various streets, 26-, 76 ft. $300,000. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs.

Wash., Anacortes—Making plans paving 46 block streets in business district.

California—State Hy. Dept., Sacramento plans widening and thickening pavement north and south of Delano St., Kern Co. $40,000 available. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., El Centro — Imperial Co. plans paving highway by way of Bonds Corner and Calexico to Seeley. To exceed $25,000.

Calif., El Cerrito — City and State Hy. Dept., Sacramento, plan paving, etc. San Pablo Ave. through town. State appropriated $75,000 and city approximately $160,000 toward cost. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., El Monte—Plans curbing, walks, and 6 and 8 in. concrete paving portions of Tyler, Garvey, Mildred Aves., etc. $25,000 or more. B. B. Moore, city clk.

Calif., Pomona—Plans 5 in. oil macadam paving portions Orange Grove Ave. $42,500. F. C. Froedhe, city engr.

Calif., San Diego—Common Council made plans improving Newton Ave. between 26th and 32nd Sts., 197,577 sq.ft. 1½ Warrenite wearing surface on 2½ in. asphaltic concrete paving, 1,443 sq.ft. concrete sidewalk, 162 lin.ft. concrete curbing, etc.; Oregon St. and University Ave., 120,551 sq.ft. 1½ in. asphaltic concrete on 5 in. concrete paving, 37 lin.ft. concrete curbing, 422 sq.ft. concrete sidewalk, etc.; also Dale St. between Juniper and Beach Sts., 149,996 sq.ft. 1½ in. asphaltic concrete paving, 81 sq.ft. concrete sidewalk, 42 lin.ft. concrete curbing, etc. F. A. Rhodes, city engr.

Calif., San Francisco — Plans improving portions of Rivera, Santiago and Taraval Sts. between 44th and 46th Aves., 2,000 lin. ft. concrete curbing, 43,263 sq.ft. asphaltic concrete paving, 720 ft. 8- to 21-in. ironstone pipe sewer, etc. $25,000. M. M. O'Shaughnessy, city engr.

Calif., Santa Barbara — Santa Barbara Co. making surveys constructing approximately 20 mi. San Julian Ranch Rd. between Lompoc and Las Cruces. O. H. O'Neill, Santa Barbara, co. surv.

Calif., Santa Monica—Made plans, 2 in. Warrenite-bituminous on 4 in. asphaltic concrete paving, etc. portion of Colorado Ave. $25,000 or more. H. B. Carter, city engr.

Ont., St. Thomas—City Council plans asphalt on concrete paving Flora St. $40,000. W. C. Miller, city engr.

Ont., Hamilton — Plans asphalt paving approximately 6,000 sq.yd. Croswaite Ave. $26,815. W. L. McFaul, City Hall, engr.

Ont., St. Catherines — Suburban Area Comn., making plans concrete paving 2 mi. Merritville Rd. $70,000. J. E. Riffer, c/o owner, engr.

Ont., Stratford—Making plans extending sewers in north eastern section. $50,000. A. B. Manson, City Hall, engr.

Ont., Toronto—Plans sidewalks and asphalt on concrete paving Clinton St. $4,673, Ethelwin Ave. $1,863, and Day Ave. $1,654; asphalt surfacing lane north of King St. $1,608, and Lane first west of Yonge St. $1,458; grading lane between Manning Ave. and Clinton St. $4,100, Heath Crescent $1,895, lane east of Hastings Ave. $1,273; concrete sidewalks on various streets $5,978, and concrete curbing various streets $888. R. C. Harris, City Hall, engr.

Que., Shawinigan Falls — Plans concrete paving 1¼ mi. Bway., 5th, 6th and 7th Aves., Hemlock, Laubert, Champlain and Cartier Sts., $31,150; also grading and widening, etc. Des Hetres Ave., $45,000. J. H. Valiquet, Shawinigan Falls, engr.

BIDS DESIRED

New York—Mar. 5, by A. W. Brandt, comr. State Hy. Dept., Albany, Bituminous material "T" (hot and cold application) and Bituminous material "T," penetration method on highways, in Divisions 1 to 9 (inclusive), Contr. 10; adv. E.N.-R. Feb. 25.

N. J., Tuckerton — Mar. 11, by Boro Council, T. Pharo, clk., cement sidewalks on various streets. $70,000. J. M. Abbott, Toms River, engr.

Pennsylvania — Mar. 23, by State Hy. Dept., Harrisburg, grading, bituminous or rein.-con. paving 13 projects in Adams, Allegheny, Beaver, Bedford, Bucks, Clearfield, Centre, Chester, Dauphin, Fayette, Lebanon, Monroe, Westmoreland and York Counties. W. H. Connell, eng. executive and deputy secy. of Highways; adv. E.N-R. Feb. 25.

Pa., Phila.—Mar. 2, by Dept. Pub. Wks., Bureau of Highways, Schedule A, asphalt repaving 82,001 sq.yd. Armat, Lena, Maplewood, Meehan, Seymour, Sheldon, Shedaker, Wister, Carlisle, Pacific, Westmoreland, 23rd, Clinton, Kater, Lehigh, Market, Myrtlewood, Pemberton, Watkins, 38th and 47th Sts.; Schedule B, redressed granite block repaving 44,742 sq.yd. Bainbridge, Fulton, Orianna, Chancellor, Water, Marshall, Franklin, Hancock, Sansom, Germantown, Hutchinson, 9th, Leithgow, 7th, Richmond, Salaignac and Terrace Sts.; Schedule C, removing circular plot in Broad St. south of Oregon Ave.; Schedule D, curbing and footway work (property owners to pay); Schedule E, curbing and footway work (city to pay). G. H. Biles, dir.

Pa., Pittsburgh — Taking bids grading, curbing, paving and sewers in Forbes St. between Beechwood Blvd. and Braddock Ave. $131,000. Dept. Pub. Wks., City County Bldg., ch. engr.

Pa., Pittsburgh—Mar. 3, by J. P. Moore, controller, Allegheny Co., rein.-con. paving 12,700 ft. Brownsville-Library Rd. (Snowden Twp.), 18 ft. $150,000. County Dept. of Pub. Wks., 519 Smithfield St., engrs.

Maryland — Mar. 9, by State Roads Comn., Garrett Bldg., Baltimore, oiling 342.53 mi. roads, various counties, Contracts 1 to 6 (inclusive). J. N. Mackall, chn.; adv. E. N.-R. Feb. 25.

Md., Towson—Mar. 2, by Baltimore Co., concrete paving 1.22 mi. Pittsburgh Ave. from Dundalk to Sollers Point, (Group 10). S. A. Green, Towson, road engr.

West Virginia—Mar. 16, by State Road Comn., Charleston, improving roads on Project 3236-A or 136-B Greenbrier Co., Project 3235-B Pocahontas Co., Project 3304-B Monroe Co., Project 3242 Mason Co., Projects 3299, 3350, 3326 and 3247 Putnam Co., Projects 3253 and 2055 Hancock Co., Project 3114-C Brooke Co., Project 3340 Upshur Co., Project 3214-B Hardy Co., Project 3208 Pendleton Co., and Project 3333 Tucker Co.; bridges on Projects 150 and 148-B Kanawha Co., Project 3128-B Wyoming Co., Project 3017-B Baxter Co., and Project 146-A Magnolia Co. E. B. Carskadon, secy.; adv. E.N.-R. Feb. 25.

W. Va., Summersville — Mar. 15, by Nicholas Co. Court, C. E. Stephenson, clk., grading, etc. 11.1 mi. Quinwood-Nettie Rd., Kentucky Dist.

Florida—Mar. 15, by State Dept. Tallahassee, Florida lime rock 8 in. compacted base on Project 562-A, Rd. 8 from Station 422 to Township 35 and 36, Highlands Co. J. L. Cresap, highway engr.

Miss., Booneville — Mar. 2, by J. F. Friday, City Hall, grading curbing, guttering and asphalt, Willite, Warrenite, asphaltic concrete, limestone, rock asphalt, sand rock, asphalt or concrete paving, etc. 16,000 sq.yd. various streets. R. L. Totten, Inc., B & M Bldg., Birmingham, Ala., engr.

Miss., Columbus — Mar. 2, by C. M. Reeves, City Clerk, City Hall, grading, curbing, guttering and paving, etc., 40,000 sq.yd. various streets. R. L. Totten, Inc., Brown-Marx Bldg., Birmingham, Ala., engrs.

Tennessee—Mar. 12, by State Dept. Highways & Pub. Wks., Nashville, improving roads and building bridges in Fayette, Tipton, Dyer, Lauderdale, Greene, Bradley, Knox, Gibson, Shelby, Obion, Bedford, Scott, Cumberland, Morgan, McNairy, Stewart, McMinn, Hamblin, Davidson and Sumner Counties. C. N. Bass, acting comr; adv. E. N.-R. Feb. 25.

O., Dayton—Mar. 1, by G. F. Baker, dir. Pub. Serv., curbing, guttering and sheet asphalt or rein.-con. paving 12,000 sq.yd. Hopeland, Pritz and Clarence Sts. also alleys, 16 ft. and 30 ft. $40,000. J. F. Hale, city engr.

O., Dayton—Mar. 4, by Comrs. Montgomery Co., Court House, rein.-con. or asphalt on concrete, or rock asphalt paving 16,500 sq.yd. Westfield, Walton, Kerper, Whitmore, Bedford, Catherine and Gardendale Sts. $50,000. W. P. Pease, Dayton, co. surv.

Ind., Lebanon — Mar. 6, by Bd. Comrs. Boone Co., Court House, grading and cement paving highway in Center Twp. $32,600. M. Harvey, aud.

Mich., Hillsdale—Feb. 26, by Hillsdale Co., graveling 2½ mi. Assessment Dist. Rd. 11.

Ill., Chicago — Mar. 3, by South Park Comrs., 57th St. and College Ave., asphaltic macadam walks on 36,000 sq.yd. Grant Park and 11,700 sq.yd. South Parkway to 23rd St. L. White, ch. engr.

Ill., De Kalb—Mar. 8, by City, City Hall, grading, curbing and concrete or Warrenite paving 32,205 sq.yd. various streets. W. M. Hay, De Kalb, engr.

Ill., East St. Louis — Feb. 27, grading, curbing, guttering and 8 in. concrete paving 3,860 sq.yd. 42nd St., $21,500; also 2,620 ft. 8- to 15-in. sewers, 4 manholes, etc., $6,200. W. McK. Brown, City Hall, engr.

Ill., Macomb—Feb. 27, by City, grading, curbing, guttering, and brick on concrete paving 8,505 sq.yd. East Pierce St. F. M. Connolly, 428-431 Peoples Trust & Savings Bank Bldg., Galesburg, consult, engr.; adv. E. N.-R. Feb. 25.

Wis., Milwaukee—Mar. 3, by Dept. Pub. Wks., R. E. Stoelting, comr., concrete paving, etc., 24,647 sq.yd., 18 alleys.

Wis., Milwaukee—Mar. 1, by City Clerk, vitr. brick, sheet asphalt, rein.-con., vibrolithic concrete or amiesite paving, etc., 11,771 sq.yd. Cherry St.; 12,430 sq.yd. North State St., and 5,657 sq.yd. Oneida St. R. M. Connelly, City Hall, engr.

Minn., St. Paul—Mar. 2, by A. E. Eggert, city purch. agt., approximately 7,473 sq.yd. brick on 7 in. concrete, 1,867 sq.yd. brick on 8 in. concrete, and 7,135 sq.yd. sheet asphalt on 7 in. concrete paving, also removing 12,295 sq.yd. present paving South Robert St. between Fillmore Ave. and Congress St. $90,000. G. M. Shepard, city engr. Noted Feb. 11.

Kan., Winfield—Mar. 19, by Clerk Cowley Co., grading and vitr. brick or concrete surfacing 36,370 sq.yd. Federal Aid Project 231-C, and 56,979 sq.yd. Federal Aid Project 231-D. W. S. Ruggles, Jr., Winfield, co. engr. Noted Feb. 4.

Neb., Omaha—Mar. 2, by City, paving Dists. 2347, 2564, 2582, 2798, 2822, 2842, 2844, 2851, 2852, 2854, 2860, 2895, 2900, 2901, 2917, 2935, 2567, 2970, 2975, 2977 and 2958.

South Dakota — Mar. 9, by State Hy. Dept. **(S. A. P. means State Aid Project and F. A. P. means Federal Aid Project)**, Pierre, grading, etc. 147,000 cu.yd. F.A.P. 196-B Aurora Co., 90,000 cu.yd. F.A.P. 198-A Brown Co., 183,700 cu.yd. F.A.P. 189-C Brule Co., 150,700 cu.yd. F.A.P. 193-B Deuel Co. 107,000 cu.yd. F.A.P. 193-C Grant Co., 153,000 cu.yd. F.A.P. 195-A Hamlin Co., 100,000 cu.yd. F.A.P. 188-F, Miner and Lake Counties, 40,300 cu.yd. F.A.P. 190-B Walworth Co., 113,000 cu.yd. F.A.P. 197-A Minnehaha and Lincoln Counties, 52,500 cu.yd. F.A.P. 197-B Lincoln Co., 87,000 cu.yd. F.A.P. 206 Butte Co., 45,-

See proposal advertisements on page 132, Advertising Section.

Streets and Roads (Continued)

000 cu.yd. S.A.P. 95, Perkins Co., approximately 8 mi. S.A.P. 96-B Todd Co. and 2 mi. S.A.P. 88 Minnehaha Co.; gravel surfacing, etc 8,500 cu.yd. F.A.P. 100 Pennington Co., 21,300 cu.yd. F.A.P. 184-A Beadle Co., 18,500 cu.yd. F.A.P. 184-B Spink Co., 10,400 cu.yd. F.A.P. 178-A Bon Homme Co., 21,500 cu.yd. F.A.P. 178-C Yankton Co., 21,600 cu.yd. S.A.P. 82 Meade Co., 16,700 cu.yd. F.A.P. 186-B Sanborn Co., and 14,600 cu.yd. F.A.P. 186-C, Sanborn Co.

North Dakota — Mar. 9, by State Hy. Dept., Bismark, and Comrs. Ward Co., at Court House, Minot, gravel surfacing 9.111 mi. Federal Aid Project 82. C. Christensen, highway comr.

North Dakota — Mar. 9, by State Hy. Dept., Bismarck, and Comrs. Ward Co. Court House, Minot, gravel surfacing 12.126 mi. Federal Aid Project 86. C. Christensen, highway comr.

North Dakota — Mar. 10, by State Hy. Dept., Bismarck, and Comrs. Pierce Co. Court House, Rugby, gravel surfacing, etc. 16.034 mi. Federal Aid Project 204. C. Christensen, highway comr.

North Dakota — Mar. 11, by State Hy. Dept., Bismarck, and Comrs. Benson Co. Court House, Minnewaukan, clearing, grubbing and grading 7.659 mi. Federal Aid Project 290-A, 9.227 mi. Federal Aid Project 249-B; gravel surfacing 6.468 mi. Federal Aid Project 203, also 6.016 mi. Federal Aid Project 205. C. Christensen, highway comr.

Mo., St. Louis — Mar. 16, by Bd. Pub. Serv., 208 City Hall, recut granite block paving, etc. 18,800 sq.yd. Franklin Ave., $132,000; brick paving, etc. 3,215 sq.yd. Beacon St., $19,520 and 5,660 sq.yd. Magnolia St., $33,720; Warrenite bitulithic paving, etc. 3,265 sq.yd. Childress St., $18,720, and 3,435 sq.yd. Geraldine St., $20,320; asphaltic concrete paving etc. 2,400 sq.yd. Tennessee St., $14,520 and 965 sq.yd. Tennessee St., $9,320; asphalt paving, etc. 7,860 sq.yd. Clark St., $52,520 and 2,515 sq.yd. Maryland St., $17,800. W. W. Horner, 300 City Hall, engr.

Texas—Mar. 4, by H. Moseley, chn. State Hy. Comn., Austin, grading, bridging and sledged stone paving 0.496 mi. State Highway 10, State Aid Project 563, 18 ft., Erath Co., $47,000. G. W. Courter, Courthouse, Ft. Worth, engr.

Texas—Mar. 5, by State Hy. Comn., Austin, bituminous surface treating 161 mi. roads in Red River, Bowie, Cass, Titus, Delta, Collin, Denton and Wise Counties, $400,000; 117 mi. roads in Johnson, Hood, Somervell, Bosque, McLennon and Hill Counties, $300,000; 90 mi. roads in Bell, Williamson and Milan Counties, $225,000; and 183 mi. roads in Howard, Martin, Midland, Ector, Surrey, Brewster and Polk Counties, $525,000, all foregoing 16 and 18 ft. W. P. Kemper, Austin, highway engr.

Texas—Mar. 8, by State Hy. Comn., Austin, clearing, grubbing, bridging and grading 6.47 mi. State Highway 8 from Carthage to Martins Creek, 26 ft., Panola Co. $68,700. D. E. Martin, Carthage, engr.

Texas — Mar. 8, by H. Moseley, chn. State Hy. Comn., Austin, shell paving 5.821 mi. and concrete on 1½ in. bitulithic paving 16.474 mi. State Highway 3, Federal Aid Project 352, Units 3 and 4, 18 ft., Liberty Co. $475,000. A. C. Love, Liberty, engr.

Texas—Mar. 8, by State Hy. Comn., Austin, grading and bridging 4.19 mi. State Highway 6, Federal Aid Project 487-C 626 ft., Ellis Co. $26,500. W. A. Spalding, Waxahachie, engr. Noted Feb. 18.

Texas — Mar. 8, by State Hy. Comn., Austin, clearing, grubbing, bridging and grading 5.64 mi. State Highway 8, Federal Aid Project 457-A, 26 ft., Cass Co. $60,000. F. E. Hess, Linden, engr. Noted Feb. 18.

Tex., Eagle Lake—Mar. 9, at office R. T. Westmoreland, mayor, curbing, guttering and 6 in. concrete paving 9,800 sq.yd. State Highway 3. B. H. Faber, city engr. Noted Feb. 18.

Oklahoma—Mar. 15, by State Hy. Dept., Oklahoma City, concrete surfacing 52,480 sq.yd. Enid-Drummond Rd., Garfield Co. $110,000. J. M. Page, highway engr.

Okla., Stillwater—Mar. 2, by F. R. Hassler, mayor, grading, curbing and concrete paving 8,470 sq.yd. 14th St. $27,700. R. G. Saxton, Stillwater, engr.

Idaho — Mar. 3, by Commissioner Pub. Wks., Boise, improving 3.377 mi. Old Oregon Trail Highway, Federal Aid Project 86-B, Canyon Co., 10,955 cu.yd. earth, 146 cu.yd. solid and 759 cu.yd. loose rock excav., 13,593 sta.yd. overhaul, 2,701 cu.yd. crushed rock or gravel surfacing, etc.

Calif., Arcadia — City Trustees taking bids grading, 6 in. oil macadam paving, etc. Huntington Dr., etc. To exceed $25,000. G. B. Watson, city engr.

Calif., Colusa—Mar. 2, by Supervs. Colusa Co., improving Grimes-Knights Landing Rd., 11,388 lin.ft. subgrading earth shoulders, incl. 1,538 ft. grading, 182,200 sq.ft. asphaltic concrete paving, etc.; also road from north end approach of Colusa drawbridge, north Colusa-Butte City Rd., to Butte Center school house, 2,600 lin.ft. graveling and grading, 505,000 sq.ft. asphaltic concrete paving, etc. J. M. Felknor, Colusa, co. surv. Noted Jan. 28.

Calif., Los Angeles — Mar. 8, by Bd. Supervs. Los Angeles Co., improving Vermont to Normandie Sts. Impvt. 377, 1,322 cu.yd. excav., 45,694 sq.yd. concrete paving, etc.; also Impvt. 326, 190 lin.ft. curbing, 320 sq.ft. guttering, 814 sq.ft. sidewalk, 3,433 cu.yd. excav., 165,811 sq.yd. concrete paving, etc. G. Jones, Hall of Records, engr.

Calif., Salinas—City Council, M. R. Keef, city clk., taking bids improving South Main St., 109,205 sq.ft. grading, 109,205 sq.ft. 2½ asphaltic concrete surfacing, 21,962 ft. concrete guttering, 4,447 lin.ft. concrete curbing, etc. H. Cozzens, city engr. Noted Dec. 3.

Calif., San Diego—Mar. 8, by Common Council, improving Upas, Redwood, Palm Sts., etc., 12,184 cu.yd. excav., 49,450 sq.ft. concrete sidewalk, 10,312 lin.ft. concrete curbing, 450,842 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete paving, etc.; also Texas and Louisiana Sts., 102,699 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete paving, 5,172 sq.ft. concrete sidewalk, 1,170 lin.ft. concrete curbing, etc. F. A. Rhodes, city engr. Noted Jan. 14.

Calif., Santa Ana — Mar. 2, by Supervs. Orange Co., improving 4 mi. Santa Ana Canyon Highway between Olive and Corona, 18,000 cu.yd. excav., 8,900 cu.yd. gravel for shoulders and sub-grading, 8,627 cu.yd. concrete, etc. J. L. McBryde, Santa Ana, co. surv.

Calif., Santa Rosa—Mar. 5, by Supervs. Sonoma Co., improving Healdsburg-Dry Creek Rd., 4,785 cu.yds. unclassified excav., 3,282 cu.yd. concrete or 199,361 sq.ft. 2 in. Willite on 3 in. asphaltic concrete paving, etc. To exceed $45,000. E. A. Peugh, Santa Rosa, co. surv.

Calif., Oroville — Mar. 1, by Supervs. Butte Co., surfacing 4,550 ft. Cameron Ave., Gridley Colony, 1,265 tons broken stone and 50 tons "E" asphalt oil spread; also 4,900 ft. 11th St., Holly Ave. near Chico, 1,450 tons broken stone and 38 tons "E" asphalt oil spread. H. H. Hume, Oroville, co. surv.

Quebec — Mar. 9, by J. L. Boulanger, Quebec, graveling 33 mi. Lerrs-St. Lambert Rd., Nicolet Co. $300,000. A. Fraser, Quebec, engr.

BIDS RECEIVED

Pennsylvania—State Hy. Dept., Harrisburg, Feb. 5, **(R. means Route and A. means Application)**, one course rein.-con. paving 15,731 ft. Spring and Lower Heidelberg Twp. Rd., A. 3604, Berks Co., from M. Staub, 548 Court St., Reading, $120,059, 4,853 ft. Conemaugh Twp. Rd., A. 3636, Somerset Co., from Windber Constr. Co., Inc., Windber, $48,056, 6,648 ft. Leighton Boro Rd., A. 3676, Carbon Co., from Sherman & Rhodes, Weissport, $99,217, 14,860 ft. Allegheny Twp.-Duncansville Boro Rd., A. 3583-3631, Blair Co., from Lincoln Constr. Co., Strafford, $112,435, 5,324 ft. Henry Clay Twp.-Markleysburg Boro Rd., R. 363, Sect. 2, A. 3661, Fayette Co., from Vipond & Strite, 45 Altoona Trust Co., Altoona, $48,166, 13,464 ft. Ralpho-Shamokin Twp. Rd., R. 161, Sect. 3, Northumberland Co., from J. Christian, Shamokin, $160,733, 7,669 ft. Ross Twp.-West View Boro Rd., R. 246, Sect. 3, Allegheny Co., from M. O'Herron Co., 1st and McKeen Sts., Pittsburgh, $91,235, 9,605 ft. Washington-Franklin Twp., R. 228-348, A. 3730, Westmoreland Co., from State Constr. Co., New Kensington, $116,709; grading, etc., 57,974 ft. Limestone-Hickory Twp. Rd., R. 93, Sect. 2, Warren and Forest Counties, from Milligan & Ringler Co., Blairsville, $214,918, and 38,555 ft. North Middelton-Middlesex-Carlisle Rd., R. 40, Cumberland Co., from Tri State Eng. Co., 39 Liberty Trust Bldg., Cumberland, Md., $79,577. Noted Dec. 31.

N. C., Charlotte—Bd. City Comrs., Feb. 16, paving 200,000 sq.yd. various streets, from Thompson Caldwell Co., P. O. Box 26, Eliz. Sta.; concrete sidewalks on 40,000 sq.yd. various streets, from C. A. Heilig, Charlotte, $59,200, and curbing 100,000 ft. various streets, from Granite Curbing Co., Charlotte, $58,000. Noted Feb. 4.

Alabama—State Hy. Comn., Montgomery, Feb. 10, **(S. A. P. means State Aid Project, F. A. P. Federal Aid Project, and e. e. engineers estimate)**, grading and gravel surfacing 10.9 mi. road between Town Creek and F.A.P. 38, 18 and 24 ft., S.A.P. 101, Lawrence Co., from Nixon & Phillips, Lawrenceville, $126,204 e. e. $133,895, and 2 mi. Camp Hill Rd., 18 and 26 ft., S.A.P. 5[illegible], Tallapoosa Co., from J. A. Taylor, Tuscaloosa, $43,549 e. e. $44,765; grading and crushed stone surfacing 2.52 mi. Moulton-Russellville Rd., 18 ft., S.A.P. 125, Lawrence Co., from Littress Constr. Co., Decatur, $34,977, e. e. $40,000; grading 19.41 mi. Tuscaloosa-Green Co. line Rd., 26 ft., F.A.P. 150, Tuscaloosa Co., from Fountain, Lamb & McLennon, Eutaw, $137,620 e. e. $151,[illegible] and 14.86 mi. Seale-Girard Rd., 18 and 24 ft., S.A.P. 50-B, Russell Co., from A. H. Singer, LaFayette, $83,495, e. e. $8[illegible]. Noted Jan. 21.

Calif., Los Angeles — From Baker & Vigus, I. W. Hellman Bldg., improving Frigate Ave. between J and Anaheim Aves., grading $1,500, 87,538 sq.ft. 6 in. concrete paving $0.19 per ft., etc. total $2[illegible],878; from G. H. Oswald, 366 East 5th St., 2nd St. between Palos Verdes and Pacific Ave., grading $20,000, 33,000 sq.ft. asphaltic paving $0.22, 10,611 sq.ft. 6 in. concrete paving $0.26, etc. total approximately $46,150.

Calif., Los Angeles—From O. Miracle, 227 Ave. D, Redondo Beach, improving La Cienega Blvd. between Pico and Airdome St., grading $1,800, 56,957 sq.ft. 8 in. concrete paving $0.255, curbing $0.40, ornamental lighting system $16,000, etc., total $33,775; from Curtis Paving Co., 2440 East 26th St., Los Angeles, improving Temple St. between Hoover St. and Westmoreland Ave., grading $5,000, 32,124 sq.ft. 7 in. concrete paving $0.27 per ft., 21,30[illegible] sq.ft. Warrenite-bituminous paving $0.27.

Calif., Oakland—E. K. Sturgis, city clk., from Oakland Paving Co., 5000 Bway, improving Peralta Ave. between 7th St. and Emeryville city limits, 940,565 sq.ft. grading $0.03 per sq.ft., 478,787 sq.ft. 3 in. Warrenite bituminous paving with 4 in. asphaltic concrete surface, $0.265, etc. Noted Feb. 11.

Calif., San Diego—Common Council, Feb. 8, from L. B. Myers, Phoenix, Ariz., 26th St. from Russ Blvd. to N St., 203,810 sq.ft. 5 in. concrete paving $0.162, 802 lin.ft. concrete curbing $0.65, 2,593 sq.ft. concrete sidewalk $0.21, etc., total $38,480 Noted Jan. 28.

Calif., Sacramento — Sacramento Co., from W. Moreing, Harris Bldg., Stockton, improving Joint Highway Dist. 4, 12,000 cu.yd. rock surfacing $2.95 per cu.yd. 5,700 cu.yd. excav. $0.50, $700 cu.yd. fill $0.50. Noted Feb. 4.

Calif., San Rafael—Supervs. Marin Co., Feb. 8, grading 100,000 cu.yd. Fairfax-Alpine Rd., incl. corrugated iron culverts (a) contractor furnishes culverts (b) county furnishes culverts, from J. P. Holland, 540 Brannan St., San Francisco, (a) $66,436, (b) $61,600.

CONTRACTS AWARDED

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, curbing and paving Delaware Ave. between Snyder Ave. and Bigler St., to J. Salonci, 512 North 65th St., $148,538.

W. Va., Harrisville—Ritchie Co., grading, etc. 3.7 mi. Sect. B, Staunton Pike, Murphy Dist., to J. C. Cooper & Co., Charleston, $33,491.

Florida — State Rd. Dept., Tallahassee, grading, paving, etc., Project 641-A, between West Palm Beach and Jupiter, to C. F. Wilmore, 513 Meridian Ave., Middletown, O., $78,256. Noted Jan. 14.

Fla., St. Augustine—See "Unclassified."

Miss., Collins—Covington Co. will improve 9 mi. Lone Star Rd. from Collins to Prentiss, by day labor, under supervision of Howarth & Watson, engrs., Hattiesburg.

Miss., Corinth — Grading, curbing and paving Jackson, Front, Waldron and South 2nd Sts., to Carey Reed Co., Lexington, Ky., $29,311.

Miss., Holly Springs—Bd. Supervs. Marshall Co. grading and gravel surfacing 2.23 mi. Federal Aid Project 66-B, 18 ft., to M. Harvey, Water Valley, $22,274; 4,662 cu.yd. gravel f.o.b. cars Spraggins and Malone, to Batesville, Gravel & Material Co., Bank of Commerce Bldg., Memphis, Tenn. Noted Jan. 14.

Kentucky—State Hy. Dept., Frankfort, **(F. A. P. means Federal Aid Project and S. A. P. State Aid Project)** grading, etc. 2.986 mi. Fulton-Clinton Rd., F.A.P. 131-F, Fulton Co., and 6.934 mi. Clinton-Bardwell Rd., F.A.P. 131-E, Hickman Co., to Landrum Bros. & Ewell, Dyer, Tenn., $14,777 and $66,603 respectively; 1.477 mi. Fulton-Mayfield Rd., F.A.P. 146-B, Fulton Co., to L. E. Carter & Co., Lovelaceville, $16,907; 15.313 mi. Mayfield Fulton Rd., F.A.P. 146-A, Graves Co., to Carter, Carter & Braden, Clay, $107,213; 4.147 mi. Elizabethtown-Leitchfield Rd., F.A.P. 147-A, Hardin Co., to General Constr. Co., Elizabethtown, $21,734; 5.193 mi. Hodgenville-Greensburg Rd., F.A.P. 126-B, Larue Co., to Mason, Douglas & Handley, West Point, $39,519;

See proposal advertisements on page 132, Advertising Section.

Streets and Roads (Continued)

3.59 mi. Richmond-McKee Rd., F.A.P. 129-B, Madison Co., to Van Diver Constr. Co., Harrodsburg, $87,280; and 9.508 mi. Hartford-Fordsville Rd., S.A.P. 45-B, Ohio Co., to W. W. Carter, Clay, $64,989. Grand total $419,022. Noted Feb. 18.

Ind., Anderson — City Comrs., curbing and concrete paving 1 mi. Noble and 31st Sts., 28 ft., to Daniels & Syst Co., Farmers Trust Bldg., $33,067. Engrs. est. $41,000. Noted Jan. 21.

Mich., St. Joseph—Berrien Co. improving 3.39 mi. road, to J. Ackerman, Benton Harbor, $55,930.

Ill., Naperville — Grading, curbing and vibrolithic concrete paving 27,000 sq.yd. Ogden Ave. addition, to H. Jensen, St. Charles, $92,354. Noted Feb. 4.

Ia., Sigourney—Keokuk Co., grading, etc. Sigourney-Washington Co. line Rd., Primary Road 183, 86,334 cu. yd. excav., 1,600 cu. yd. channel change, 1,000 cu. yd. approach excav., 80,000 station overhaul, etc., to McAnfrew & Hannahs, Keokuk, $31,-834; 25 concrete culverts on Federal Aid Project 183-B, to Wallace Lumber Co., Sigourney $11,437, also one 20 x 24 ft. slab bridge and one 40 x 24 ft. deck girder bridge on same project to A. P. Munson, Marion, $11,859.

Missouri—State Hy. Dept., Jefferson City, to Independent Constr. Co., Pittsburgh, Kan., grading 0.966 mi. Carthage-Joplin Rd., Jasper Co. $4,562, 18 ft. concrete paving same road $12,356; to O. H. Schmidt, St. Joseph, 30 ft. grading 4.957 mi. Brookfield-Livingston Rd., Linn Co. $382,689, to Kelly & Underwood, Granby, 3.857 mi. Seneca-Neosho Rd., Newton Co. $28,853, and 3.999 mi. same road $24,665, to J. P. Sparks, Kirkwood, 3.306 mi. Silva-Greenville Rd., Wayne Co. $74,173, and 3.156 mi. same road $34,989, to R. P. Harper Constr. Co., Chillicothe, 3.493 mi. Brookfield-Livingston Rd., Linn Co. $47,-257, 3.258 mi. same road $19,072 and 3.466 mi. same road $25,411, to G. A. Nichols, Oklahoma City, Okla., 1.835 mi. Waverly-Marshall Rd., Lafayette Co. $8,887, 4.369 mi. Waverly-Marshall Rd., Saline Co. $12,-338, 4.597 mi. same road $15,690, and 4.004 mi. same road $18,238; to Richmond Constr. Co., Richmond, grading and 18 ft. concrete paving 3.468 mi. Knobnoster-Lamonte Rd., Pettis Co. $55,038; to Nevada Constr. Co., Nevada, 30 ft. grading 3.598 mi. road from Nevada east, Vernon Co. $20,131, 3.958 mi. same road $19,400, 18 ft. gravel surfacing 3.491 mi. Butler-Appleton City Rd., Bates Co. $27,995, 3.507 mi. same road $23,828; to M. E. Gillioz, Monett, 18 ft. gravel surfacing 9.972 mi. road from Club east. Wayne Co. $84,469, 1.16 mi. Marble Hill-Wayne Co. line Rd., Bollinger Co. $22,587, and 4.993 mi. same road $42,346; to D. C. Horton, Fort Smith, Ark., 18 ft. gravel surfacing 4.64 mi. road from Osceola south, St. Clair Co. $30,366, 4.805 mi. same road $35,070, and 4.722 mi. same road $29,008, to Graham Bros., Leeds, 9.674 mi. Mexico-Martinsburg Rd. $4,224, 2.674 mi. road from Martinsburg north and east $12,317, and 2.693 mi. road from Martinsburg north $13,151, all in Audrain Co., to J. A. Kerr, Ozark, 14.755 mi. Willow Springs-Mountain View Rd., Howell Co. $39,937, to K. MacFarland, Kansas City, 1.63 mi. road from New Franklin north and south, Howard Co. $23,248, to Trodgon Bros., Quincy, Ill., 2.167 mi. road from Hamilton south, Caldwell Co. $2,814, to R. M. Daviess & Son, Salisbury, 2.731 mi. Fayette Rd., Route 2, Howard Co. $18,128, to Phillips & Rigsby, Waynesville, 4.959 mi. road from Brazito north and south, Cole Co. $43,088; to C. H. Atkinson Paving Co., Watertown, S. D., grading and 9 ft. concrete paving 4.148 mi. road from Cameron north, De Kalb Co. $64,461, 4.372 mi. Gallatin-Winston Rd., Daviess Co. $49,997, 8.174 mi. same road $87,010, 3.868 mi. road from Winston N. E. to Southwest, Daviess Co. $44,672; to F. E. Eberhardt Paving Co., Salina, Kan., grading and 18 ft. concrete paving 2.919 mi. road from Savannah west, Andrew Co., $46,024; and to Haller-Emmerson Co., Boonville, 22 ft. rock asphalt or amiesite paving 0.625 mi. New Franklin Rd., Howard Co., $879. Grand total $1,165,372. Noted Feb. 18.

Mo., St. Louis—Dept. Pub. Serv., 208 City Hall, to Webb-Boone Paving Co., 5103 Fyler Ave., asphaltic concrete paving 2,185 sq.yd. Alfred Ave. $12,032, 2,915 sq. yd. Arthur Ave. $17,019, 830 sq.yd. Hi-Points Pl. $5,075, 1,060 sq.yd. Kansas St. $5,945, and 3,115 sq.yd. Marmaduke St. $13,060; to Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., Warrenite paving, etc., 1,635 sq.yd. Michigan Ave. $8,372, 3,010 sq.yd. Cardinal St. $20,309, and 3,490 sq.yd. Pennsylvania St. $18,936; to Granite Bituminous Paving Co., Ry. Exch. Bldg., Warrenite bitulithic paving, etc., 3,060 sq. yd. Nagel St., $21,297; and to Skrainka Constr. Co., Security Bldg., concrete guttering, etc., 1,780 sq.yd. Delmar Blvd., $20,-473. Grand total $142,518. Noted Feb. 11.

Ark., Siloam Springs—E. McCulloch, chn. Dist. 4, to E. H. Locher, Okmulgee, Okla., grading, curbing and paving 28,000 sq.yd. streets in Paving Dist. 4, plain concrete $74,784, rein.-con. $81,504, brick and concrete, $82,703; to W. L. Miller, Siloam Springs, rein.-con. bridge, $7,859. Noted Jan. 28.

Okla., Elk City—Brick block with asphalt filler paving various streets, to Standard Paving Co., 1742 East 6th St., Tulsa, $32,210. Noted Feb. 18.

Nevada—State Hy. Dept., Carson City, constructing portion Bard-Vegas Highway, Federal Aid Project 101-A, Clark Co., Contr. 137, to Dodge Bros., Inc., Fallon, $80,743.

Oregon—State Hy. Dept., Portland, grading and surfacing 10.3 mi. Cannon Beach Junction-Hamlet Junction Section of Roosevelt Highway, Clatsop Co., to Motor Investment Co., c/o G. M. McDowell, Ry. Exch. Bldg., Portland, $63,915.

California—State Hy. Dept., Sacramento, to J. V. Galbraith, Windsor, completing Healdsburg-Santa Rosa Highway, Sonoma Co., 34,000 cu.yd. unclassified excav. $0.50, 12,150 yds. concrete paving $23, etc., total approximately $207,265.

Calif., Oakland—Alameda Co. constructing roadways, walks, steps, walls, etc. at Highland Hospital, to Frederickson & Watson, Builders Exch. Bldg., $256,918. Noted Feb. 18.

Calif., San Diego — Common Council, grading and paving Kettner Blvd., Spruce, Winder, Laurel and Pierce Sts., to Hazard Contg. Co., 2548 Kettner Blvd., $100,067. Noted Jan. 28.

Buildings—Industrial

PROPOSED WORK

Mass., Hudson — FACTORY — Firestone-Apsley Rubber Co., H. S. Firestone, pres., had plans prepared 5 story, brick, steel and concrete factory. $500,000. R. H. Bartlett, 520 Atlantic St., Boston, engr. and archt. Noted Nov. 19.

Mass., Worcester—WAREHOUSE—M. J. Whittall Associates, Edgeworth Mill, Brussels St., having plans prepared by J. D. Leland & Co., 41 Mt. Vernon St., Boston, 4 story, 81 x 120 ft., brick, steel and concrete, plain foundation. $125,000.

Conn., Waterbury — FACTORY — Lux Clock Co., 85 Sperry St., soon lets contract 4 story, 50 x 320 ft., brick and timber, Johnson St. T. M. Freney, 51 Leavenworth St., archt. Noted Dec. 31.

N. Y., Brooklyn — ELECTRIC GENERATING PLANT—Brooklyn Edison Co., Pearl and Willoughby Sts., plans rein.-con., brick and steel, plain foundation, Ferris St. $2,000,000. Private plans.

N. Y., Buffalo—GARAGE and REPAIR SHOP—N. Mecca, 304 Connecticut St., plans 50 x 100 x 133 ft., rein.-con. and brick garage and repair shop. $60,000.

N. Y., Buffalo — MILLS — Great Lakes Portland Cement Co., A. L. Beck, pres., Marine Trust Co. Bldg., having preliminary plans prepared cement mills, Hamburgh Turnpike. $3,000,000.

N. Y., New York—PLANT—Amer. Meter Co., 105 West 40th St., having plans prepared by B. S. King, engr. and archt., 18 East 41st St., brick, steel and stone, plain foundation, 563 West 47th St. $$200,000.

N. Y., New York — PLANT — Benedict Metal Wks., Inc., 1648-70 Webster Ave., had plans prepared 3 story addition. $40,-000-$50,000.

N. Y., New York—PLANT—A. C. Chesley Co., 704 East 133rd St., plans 2 story, rein.-con., brick and steel, plain foundation, East 133rd St. $130,000. Engineer and architect not selected.

N. Y., New York—BOILER HOUSE—Consolidated Gas Co., 130 East 15th St., having plans prepared by J. F. Hunter, engr. and archt., 30 East 58th St., 4 story, rein.-con., brick and steel, plain foundation, Hunts Point Ave. $175,000.

Pa., Woolrich—FACTORY—Rich Bros. having plans prepared 4 story 90 x 110 ft., woolen mills addition, brick and steel. Private plans.

Fla., Miami — STORAGE, etc. — Voted $445,000 bonds, building for storage, repair, etc.

O., Painesville — POWER HOUSE — See "Buildings—Educational, Religious."

Mich., Detroit — HEATING PLANT — Dept. Pub. Wks., City Hall, having plans prepared by Donaldson & Meier, 1310 Penobscot Bldg., 2 story and basement, 50 x 100 ft., rein.-con. and steel, plain foundation, Mullet St. $260,000.

Ia., Davenport — CEMENT PLANT — Dewey Portland Cement Co., 301 Mutual Bldg., Kansas City, Mo., plans plant, near here. $3,000,000.

Ill., Chicago — MACHINERY MART — Graham, Anderson, Probst & White, archts., 80 East Jackson Blvd., takes bids about Mar. 20, 12 story (ultimately 17 story) and basement, 115 x 150 x 320 ft., rein.-con., brick and steel, Canal and Clinton Sts. near Jackson Blvd., for Chicago Machinery Mart, 14 East Jackson Blvd. $3,200,000. Noted Nov. 12.

Ill., Waukegan — IRON FOUNDRY — Waukegan Fdry. Co., Terminal Bldg., making preliminary plans 1 and 2 story, 87x254 ft. foundry.

Wis., Appleton—GARAGE—See "Sewers."

Wis., Milwaukee—POWER HOUSE—See "Buildings—Educational, Religious."

Mo., St. Louis—TRANSFORMER PLANT —Amer. Brown Boveri Co., 165 Bway., New York City, N. Y., purchased 10 acre site and soon takes bids 1 and 2 story, rein.-con., Birsher St. near Union Blvd., here. $1,000,000. Private plans.

BIDS DESIRED

Mass., Watertown—FACTORY—Mar. 2, by Amer. Soda Fountain Co., Congress St., Boston, 2 story, 175 x 300 ft., brick and steel, Walnut St. To exceed $150,000. Monks & Johnson, 99 Chauncy St., Boston, archts.

Mass., Worcester—REPAIR and SERVICE GARAGE—Feb. 27, Mack Motor Truck Co., 75 North Beacon St., Boston, brick and steel, Shrewsbury St. $125,000. Warren Eng. Co., Terminal Wharf, Charleston, archts. Noted Jan. 7.

N. Y., Brooklyn — SERVICE GARAGE and REPAIR SHOP.

N. Y., Buffalo—GAS PLANT—See "Contracts Awarded."

N. J., Camden — SERVICE STATION — Mar. 2, by E. E. Seelye & Co., engrs. and archts., 101 Park Ave., New York City, 1 story and basement, 190 x 252 ft., rein.-con. and brick, plain foundation, 6th and Jefferson Sts., here, for Mack International Motor Truck Corp., 741 Market St. $175,-000.

Pa., Allentown — FACTORY — See "Contracts Awarded."

Pa., Pittsburgh—FACTORY—Locomotive Stoker Co., 30 General Robinson St., taking bids 1 story, 30 x 180 ft., brick steel addition, Robinson St. Hunting, Davis & Dunnells, Century Bldg., archts. Noted Feb. 11.

Mich., Detroit — HEATING PLANT — Mar. 5, by J. W. Reid, comr. Pub. Wks., 2 story and basement, 50 x 99 ft., rein.-con., brick and steel heating plant, plain foundation, with 100 ft. radial brick stack on steel supports, also about 700 ft., 6½ ft. x 5 ft. rein.-con. tunnel for pipe lines, Mullet and St. Antoine Sts. E. R. Little Co., 1920 Ford Bldg., engrs. Donaldson & Meier, 1310 Penobscot Bldg., archts.

Wis., Milwaukee—FACTORY—Fredman Bag Co., 311 Bway., taking bids 4 or 5 story, 100 x 120 ft., brick and timber, plain foundation, 18th St. Private plans.

Wis., Milwauke—FACTORY—A. B. and B. Sheet Metal Wks., 3300 Fond du Lac Ave., taking bids 1 story, 36 x 130 ft., brick addition, plain foundation. H. J. Esser, 82 Wisconsin St., archt.

Tex., San Marcos — ICE PLANT — See "Contracts Awarded."

Calif., Lankershim — MAINTENANCE SHOP — Mar. 15, by State Hy. Comm., Sacramento, frame maintenance shop quarters, for storage, repair shops, etc., here. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Man., Winnipeg—PRINTING PLANT—Feb. 27, by T. Eaton Co., Ltd., 2 story and basement, 119 x 163 ft., rein.-con. and brick, plain foundation. $75,000. J. Woodman, Winnipeg, archt. Noted Feb. 18.

BIDS RECEIVED

Ia., Iowa City — HEATING PLANT — State Bd. Educ., W. H. Gemmill, secy., Feb. 16, 1 story and basement, 65 x 175 ft., brick and steel, plain foundation, on campus, here, for State University, from Theodore Stark Co., 118 South 11th St. W., Cedar Rapids, $288,347. Noted Feb. 4.

Calif., Bakersfield — NEWSPAPER PLANT — C. H. Biggar, archt., Bank of Italy Bldg., 2 story and basement, 70 x 121 ft., brick and concrete plant, (a) brick and steel (b) concrete, for Bakersfield Daily Californian, from H. Eissler, Bakersfield (a) approximately $83,000 (b) $74,000. Noted Feb. 18.

CONTRACTS AWARDED

Conn., Southington — HARDWARE FACTORY — Peck, Stow & Wilcox Co., Railway Sq., 2 story, 97 x 100 ft. brick addition, to H. Wales Lines Co., 134 State St., Meriden. Archts. est. $65,000. Noted Nov. 10.

See proposal advertisements on page 132, Advertising Section.

Buildings—Industrial (Continued)

N. Y., Brooklyn — SERVICE GARAGE and REPAIR SHOP — A. Levine, c/o Magnuson & Kleinert, engrs. and archts., 250 Park Ave., New York City, will build rein.-con., brick and steel, plain foundation, Bedford Ave., here. $200,000. Work will be done by separate contracts.

N. Y., Buffalo—RADIATOR FACTORY—Fedus Mfg. Co., 21 Tonawanda St., 50 x 225 ft. rein.-con., brick and steel, Tonawanda St., to Peckham Constr. Co., Crosby Bldg., Buffalo, $50,000.

N. Y., Buffalo—GAS PLANT—Iroquois Gas Co., Iroquois Bldg., will build rein.-con. and steel addition, Bradley St., by day labor. $50,000. Private plans.

N. Y., Long Island City—MILL—Hasbrouck Flooring Co., 501 East 17th St., New York City, 4 story, rein.-con., brick and steel, plain foundation, here, to Beling-Bush Co., Inc., 299 Bway., New York City. Archts. est. $100,000.

Pa., Allentown — FACTORY — International Motor Car Co., will build 1 story 600 x 800 ft., brick and steel auto factory, by day labor. $400,000. L. H. Cutten, c/o owner, plant engr.

Pa., Bridgeville—FACTORY—Universal Steel Co., 1 story, 100x160 ft., brick and steel addition, to Ft. Pitt Bridge Wks., Canonsburg.

Pa., Pittsburgh — FACTORY — Crist & Schilker Co., Inc., 543 4th Ave., 2 story and basement 75x100 ft. metal products factory, 37th and Howley Sts., to Austin Co., Union Trust Bldg. Archts. est. $60,000.

W. Va., Charleston — PLANT — Owens Bottle Co., 1401 Nicholas Bldg., Toledo, O., general contract 2 story, 120 x 1,025 ft. bottle plant addition, here, to Rust Eng. Co., 311 Ross St., Phila., Pa. Archts. est. $500,000. Noted Feb. 4.

Fla., Tampa—POWER HOUSE, etc.—Tampa Electric Co., extending boiler room, erecting 200 ft. stack, enlarging outdoor substation, by power house, etc., to Stone & Webster, Inc., 147 Milk St., Boston, Mass.

Miss., Jackson—BOX FACTORY—Rathbone, Hair & Ridgeway Co., 2248 South Laflin St. ,Chicago, Ill., general contract 2 story, brick and timber, Hooker St., here, to J. Garber, 151 Minerva St., Jackson. Archts. est. $100,000.

O., Cleveland—PLANT—Cleveland Electric Illuminating Co., c/o R. Lindsay, pres. and genl. mgr., Illuminating Bldg., 3 story, 56 x 124 ft. switchhouse, 2 story, 34 x 86 ft. control house, and 1 story, 80 x 92 ft. oil storage building, brick, steel and concrete, Clinton Ave., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $150,000. Noted Feb. 18.

Ill., Chicago—FACTORY—Horton-Loseer Co., 4024 North Rockwell St., general contract 1 story, 108 x 180 ft., brick, 4024 North Rockwell St., to H. A. Durr & Co., 123 West Madison St. Archts. est. $51,000.

Ill., Moline — FACTORY — Harrington-Seaberg Fire Alarm Telegraph Co., 1708 3rd Ave., 3 story, 60 x 120 ft., brick and concrete, 20th St., to A. Carlson, 1506 15th St. Archts. est. $60,000.

Ia., Des Moines—NEWSPAPER—Register & Tribune Publishing Co., 715 Locust St., general contract remodeling 3 story and basement, 66 x 133 ft., rein.-con., brick and steel, plain foundation, 8th and Locust Sts., to A. H. Newmann Co., 519 Hubbell Bldg., $96,849. Noted Feb. 18.

Mo., St. Louis — CONCRETE POLE PLANT—Westinghouse Electric & Mfg. Co., 717 South 12th St. (1st unit) 1 story, 80x475 ft., concrete and steel, Hingham St., to Gamble Constr. Co., 620 Chestnut St. Archts. est. $75,000. Plans additional units later, total $1,000,000.

Tex., Galveston — COTTON MILL — Galvex Mills, Inc., 2427 N St., R. C. Stone, pres., cotton mill, to J. W. Zempter & Co., 2204 B St., approximately $200,000.

Tex., Plainview—FLOUR MILL—Harvest Queen Milling Co., A. G. Hinn, pres., 7 story, part basement, rein.-con., plain foundation, to Southwestern Eng. Co., Springfield, Mo., $150,000.

Tex., San Marcos—ICE PLANT—Texas Public Utilities Co., will rebuild ice plant, 45 ton daily capacity, brick, steel and concrete, by day labor. $50,000. Private plans.

Buildings—Commercial

PROPOSED WORK

Mass., Worcester — DORMITORY — Worcester Polytechnic Institution, R. Earle, pres., plans brick and steel, West St. $250,000.

R. I., Providence — OFFICE — T. E. Doherty, 1916 Westminster St., soon lets contract 3 story, 95 x 102 ft., brick and steel, plain foundation, Westminster St. and Olneyville Sq. $150,000. D. Dodd, 84 Broad St., Pawtucket, archt.

R. I., Woonsocket—CITY HALL—City, City Hall Com., plans new city hall. $1,000,000. Engineer and architect not selected.

Conn., Hartford — APARTMENT — H. Resnick, 34 Vine St., had plans prepared 4 story, 40 room, brick and steel, Main St. $250,000. Private plans.

Conn., Hartford—TEMPLE—St. John's, Hartford, Lafayette Tuscan, Blue Lodges, plan masonic temple, Farmington Ave. $1,000,000.

Conn., New Britain—TEMPLE—Masonic Temple Corp., c/o J. C. Loomis, ch., plans temple. $225,000.

Conn., New Haven—TEMPLE—Masonic Temple Assn., O. A. May, chn. finance com., plans 2 story with 2 mezzanines, 80 x 140 ft. Whitney Ave. Norton & Towsend, 405 Temple St., archts.

N. Y., Buffalo — APARTMENT — H. J. Cook, et al., having preliminary plans prepared by H. J. Cook, 408 Pearl St., 12 story, rein.-con., brick and steel apartment house. $1,225,000.

N. Y., Buffalo—PASSENGER STATION —New York Central R.R. Co., 466 Lexington Ave., New York City, plans brick, steel and stone passenger station, here. $12,000,000. G. W. Kittredge, Grand Central Terminal, New York City, ch. engr. W. J. Jordan, Express Bldg., 30th St., local engr.

N. Y., Long Beach—HOTEL—Island Park Building Corp., c/o Wilkinson & Hyde, engrs. and archts., 19 West 44th St., New York City, soon takes bids 5 story, brick, steel and stone, plain foundation. $200,000. Noted Feb. 11.

N. Y., Long Island City—Y.M.C.A., M. J. Stickel, secy., plans 29 story, brick, steel and stone building, plain foundation. Engineer and architect not selected.

N. Y., Mt. Vernon — APARTMENT — Susswell Realty Co., c/o L. A. Abramson, archt., 48 West 46th St., New York City, having plans prepared 7 story, 200 x 240 ft., brick, steel and stone, plain foundation, Sheridan Blvd. $500,000.

N. Y., New York — APARTMENT — Naples Holding Co., c/o Bates & Franklin, engrs. and archts., 645 East Tremont Ave., having plans prepared 6 story, brick, steel and stone, plain foundation, Naples and Goodwin Terraces. $200,000.

N. Y., New York—APARTMENT—Beresford Corp., B. Gordon, pres., c/o Sugarman & Bergen, engrs. and archts., 345 Madison Ave., having plans prepared 26 story, brick, steel and stone, plain foundation, 211 Central Park West. $3,800,000.

N. Y., New York—APARTMENT—One Thousand Eight Hundred Sixty-One University Ave. Corp., c/o Gronenberg & Leuchtag, engrs. and archts., 450 4th Ave., having plans prepared 15 story, brick, steel and stone, plain foundation, 9 East 96th St.

N. Y., New York—APARTMENT—A. K. Constr. Co., c/o H. J. Feldman, archt. and engr., 516 5th Ave., having plans prepared brick, steel and stone, plain foundation, Mt. Eden Ave. $300,000.

N. Y., New York—APARTMENT—Silberk Realty Corp., c/o L. Stillman, archt. and engr., 311 Lenox Ave., having plans prepared 6 story, brick, steel and stone, plain foundation, Powers Ave. $185,000.

N. Y., New York—HOTEL—W. Rosenthal, c/o G. and E. Blum, archts. and engrs., 415 Lexington Ave., having plans prepared 12 story, brick, steel and stone, plain foundation, 62 West 52nd St. $500,000.

N. Y., New York—HOSPITAL—St. Elizabeth Hospital, 415 West 51st St., soon lets contract 6 story, 120 x 200 ft., brick, steel and stone, plain foundation, Fort Washington Ave. $800,000. O'Connor, Delaney & Schultz, 162 East 37th St., engrs. and archts. Noted Jan. 7.

N. Y., New York—LOFT—Trinity Church Corp., c/o Parker & Shaffer, engrs. and archts., 280 Madison Ave., having plans prepared 12 story, rein.-con., brick and steel, plain foundation, Varick St. $1,000,000. Noted Nov. 5.

N. Y., New York—PUBLIC SERVICE—New York Edison Co., East 15th St., having plans prepared by T. E. Murray, Inc., engrs. and archts., 55 Duane St., 7 story, rein.-con., brick and steel, plain foundation, 14th St. and Ave. D. $1,200,000.

N. Y., Richmond Hill (Ind. br. Jamaica) COMMUNITY CENTER — Knights of Columbus, 799 7th Ave., New York City, having plans prepared by W. J. Bogel, engr. and archt., 185 Madison Ave., New York City, 2 story, brick, steel and stone, plain foundation, 110th St. and Atlantic Ave., here. $350,000.

N. J., Mt. Holly—HOSPITAL—Burlington Co. Hospital, c/o Morris & Erickline, archts., 1716 Cherry St., Phila., Pa., having plans prepared for hospital. $300,000.

N. J., New Brunswick—HOSPITAL—St. Peters Hospital, J. H. Conger, vice pres., had plans prepared by McGinnis & Walsh, 100 Boylston St., Boston, Mass., 5 story, brick and limestone, Easton Ave. $800,000. Noted Oct. 29.

N. J., Trenton—APARTMENT—Durema Constr. Co., c/o D. A. Dugan, 420 Bellevue Ave., plans 3 story, 100 x 125 ft. apartment. $200,000.

Pa., Allentown — HOSPITAL — Sacred Heart Hospital, having plans prepared by Jacoby & Everett, Commonwealth Bldg., 4 story and basement, 60 x 150 ft. hospital. $300,000.

Pa., Latrobe — BANK and OFFICE — Citizens Natl. Bank having plans prepared by Bartholomew & Smith, Greensburg, 6 story and basement, 60 x 70 ft., brick and stone bank and office building. $350,000.

Pa., Phila.—APARTMENT—P. N. Julian, archt., 823 15th St. N. W., Wash. D. C., soon lets contract 10 story and basement, 163 x 190 ft., rein.-con., brick and steel, plain foundation, 43 Locust St., for 43rd & Locust St. Building Co., c/o architect. $1,500,000.

Pa., Phila.—APARTMENT—J. S. Fuller, archt., 5438 Locust St., preparing plans 4 story and basement, 41 x 120 ft., rein.-con., brick and steel, plain foundation, 48 Chestnut St. $150,000. Owner's name withheld.

Pa., Pittsburgh — HOTEL — Pittsburgh Pennsylvania Hotel Corp., c/o A. W. Wyckoff, 728 Frick Bldg., having plans prepared by Ballinger Co., engrs. and archts., 150 South 12th St., Phila., and G. B. Post & Sons, associate archts., 101 Park Ave., New York City, N. Y., 21 story and basement hotel, Wm. Penn Way, 7th, Grant and Liberty Sts. $1,500,000.

Pa., Pittsburgh—TEMPLE—Feb. 24, by F. Giffen, archt., Magee Bldg., 3 story and basement, 63 x 110 ft., brick and tile, Chartiers Ave., for Sherrod Temple Assn., c/o architect. $150,000.

Pa., Scranton — OFFICE — Carpenters Union, 332 Lackawanna Ave., having plans prepared by A. J. Ward, County Bank Bldg., 2 story and basement, 50 x 150 ft., rein.-con., brick and steel, Lackawanna Ave. $150,000.

Pa., Wellsboro — HOSPITAL — Soldiers and Sailors Memorial Assn., 107 Main St., Wellsboro, having plans prepared by Kast & Kelker, 222 Market St., Harrisburg, 3 story and basement hospital, here. $400,000.

Ga., Atlanta — CITY HALL — Election Mar. 24, $1,000,000 bonds, new city hall. W. Sims, mayor. Noted Jan. 21.

Fla., Miami—HOSPITAL—Voted $150,000 bonds, addition to hospital.

Fla., Miami—HOTEL—W. G. Just, 18th Northwest Ave., having plans prepared by F. A. Kloepfer, 406 Northeast 2nd Ave., 24 story, Gypsum tile and steel, on 40 x 80 ft. site, Southwest 1st Ave. and Southwest 1st St. $1,250,000.

Ala., Sheffield — HOSPITAL — Election Mar. 15, $75,000 bonds, hospital. $75,000 donated.

O., Cleveland—HOSPITAL—Charity Hospital, c/o Sister Superior, East 22nd St. and Central Ave., raising $1,200,000 funds new 5 story nurses home, laboratory, chapel, etc., East 22nd St. and Central Ave. G. S. Rider Co., Century Bldg., archts.

Ind., Gary—CLUB—Knights of Columbus, J. W. McLaughlin, chn., takes bids about Mar. 1, 9 story and basement, 125 x 175 ft., brick, steel and rein.-con., 5th and Madison Sts. $750,000. Porter & McNally, 3030 Euclid Ave., Cleveland, O., archts. Noted Dec. 3.

Wisconsin — HOSPITALS — Milwaukee Co., H. O. P. Franke, chn. com., 4419 North Ave., Milwaukee, plans 568 bed hospital, Grand Ave., Wauwatosa, $1,100,000; also 50 bed emergency hospital and dispensary, 24th St. and Grand Ave., Milwaukee. Engineer and architect not selected.

Mo., Kansas City—WAREHOUSE—J. F. and F. O. Butler, 223 West Monroe St., Chicago, Ill., having preliminary plans prepared by P. H. Anthony, 202 Main Street Theatre Bldg., warehouse, 6th St. Traffic Way between May and Wyondotte Sts., here. $1,000,000.

Ark., Ft. Smith—CLUB HOUSE—See "Unclassified."

See proposal advertisements on page 132, Advertising Section.

Buildings—Commercial (Continued)

Tex., Dallas—THEATRE and OFFICE—Loew's Theatres, Inc., 1540 Bway., New York City, plans 10 story office and theatre, 3,000 seating capacity, here. $2,000,000.

Tex., San Antonio — COURTHOUSE — Bexar Co. takes bids about Mar. 5, 5 story and basement, concrete, brick and stone annex, Military Plaza. $1,000,000. E. T. Jackson, Builders Exch. Bldg., and Phelps & DeWees, Gunter Bldg., archts. Noted Dec. 24.

Tex., San Antonio—THEATRE and OFFICE—Loew's Inc., 1540 Bway., New York City, N. Y., T. Turner, publicity dir., plans 6 or 7 story, fireproof theatre and office, here. $500,000.

Okla., Ada—COURT HOUSE—Pontotoc Co. soon takes bids 4 story and basement, 73 x 104 ft., brick and stone court house. $150,000. Butler Co., 514 Herskowitz Bldg., Oklahoma City, archts. Noted Dec. 31.

Wash., Seattle—BANK—C. Linde, archt., Seaboard Bldg., preparing plans and takes bids about Mar. 30, 3 story, basement and sub-basement, 60 x 120 ft., marble, 1414 4th Ave., for Puget Sound Savings & Loan Assn., 300 Pike St. $500,000.

Wash., Seattle — OFFICE and WAREHOUSE—Beeb & Gould, archts., Hoge Bldg., soon lets contract 4 story, 120 x 150 ft., rein.-con., 1st South and Atlantic Sts., for Zellerbach Paper Co., 807 Western Ave. $150,000.

Wash., Tacoma—TEMPLE—A. J. Russell, archt., Bankers Trust Bldg., soon lets contract 5 story, 124 x 134 ft., rein.-con., steel and cast stone temple, for Masonic Lodge, 743 Market St.

Calif., Los Angeles—THEATRE—Morgan, Walls & Clements, archts., Van Nuys Bldg., soon take bids rein.-con., Hollywood Blvd., for Hollywood Music Box, Inc., c/o architects. $150,000. Noted Nov. 26.

Calif., San Francisco—HOTEL—G. A. Applegarth, archt., Claus Spreckels Bldg., making sketches 15 story and basement, probably rein.-con., vicinity of Geary and Taylor Sts. $1,000,000. Owner's name withheld.

Calif., San Francisco — OFFICE and CLUB—H. Law, Monadnock Bldg., plans approximately 22 story and basement, 76x100 ft., fireproof, Sutter and Powell Sts. Engineer and architect not selected.

Calif., San Francisco — STORE — See "Buildings—Industrial."

BIDS DESIRED

Mass., Brockton—OFFICE—Majestic Co., c/o C. T. Olson, archt., Main St., taking bids 3 story, brick and stone, Main St. $160,000.

Conn., New Haven—APARTMENT—See "Contracts Awarded."

N. Y., Brooklyn — OFFICE, THEATRE and STORE — See "Contracts Awarded."

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York—OFFICE—See "Contracts Awarded."

N. Y., Thiells—HOSPITAL—Mar. 11, by Supt. Purchase, Capitol, Albany, hospital, etc. at Letchworth Village, here; adv. E. N.-R. 25.

O., Cleveland — STORE — Mar. 3, by Walker & Weeks, archts., 1900 Euclid Ave., 6 story and basement, 200 ft. wide, brick, steel and rein.-con., Huron Rd., for Halle Bros. Department Store. $750,000. Noted Jan. 28.

Wis., Kenosha—THEATRE, STORE and OFFICE—See "Contracts Awarded."

Wis., Milwaukee — APARTMENT and STORE — Lillydahl Corp., 425 East Water St., taking bids 3 story and basement, 44 x 125 ft., brick and steel, plain foundation, Astor St. $150,000. Private plans.

Wis., Milwaukee—BANK—Feb. 27, by Dick & Bauer, archts., 811 State St., 1 story and basement, 42 x 130 ft., rein.-con., stone and brick, plain foundation, for Teutonia Ave. State Bank, 1074 Teutonia Ave. $150,000. Noted Oct. 1.

Calif., Alhambra—HOTEL, APARTMENT and STORE—Nelson & Wiley, Bank of Italy Bldg., Los Angeles, taking bids 5 story and basement, 90 x 170 ft., rein.-con., 1st St. and South Garfield Ave. $225,000 or more.

Calif., Los Angeles—STORE and OFFICE—Walker & Eisen, Great Republic Bldg., taking bids 2 story, 135 x 180 ft., concrete, Bway. and Temple Sts., for Paules & Hartfield, c/o architects. Noted Jan. 21.

Calif., Los Angeles—STORE and OFFICE—Curlett & Beelman, archts., Union Bank Bldg., taking bids 12 story and basement, 81 x 150 ft., brick and steel, 5th and Bway. Sts., for C. Williams. Steel contract, to Llewllyn Iron Wks., 1200 North Main St.

Ont., London—OFFICE—Mar. 10, by J. M. Moore, archt., 489 Richmond St., 4 story office building, Wellington St., for London Life Insurance Co. $1,000,000. Noted Jan. 28.

BIDS RECEIVED

O., Cleveland — COTTAGE — Dept. Welfare, 9th and Oak Sts., Columbus, Feb. 13, 2 story and basement, 102 x 140 ft., brick, steel and concrete, Hawthornden Farm, from V. W. Surber, 109 North Union St., Akron, $24,514. Noted Jan. 28.

Wash., Zenith — MASONIC HOME — Heath, Gove & Bell, archts., Pacific Savings Bank Bldg., Tacoma, 5 story, 30,000 sq.ft. floor space, fireproof, here, from Morris Hoard, Inc., Pantages Bldg., Seattle, for Washington State Masonic Home. $441,999. Noted Jan. 21.

CONTRACTS AWARDED

Me., Portland — Y.M.C.A., 5 story and basement, brick and stone Forest Ave., to F. A. Rumery Co., 537 Congress St., $350,000. Noted Nov. 12.

Mass., Somerville (Boston P. O.)—THEATRE—G. Vartigian c/o J. Tuck, archt., Park Sq. Bldg., Boston, 1 story and basement, brick and steel, Bway., to J. Greenwood, 101 Tremont St., Boston. Archts. est. $200,000. Noted Dec. 17.

R. I., Providence—THEATRE—J. Conn, 104 Broad St., superstructure 2 story, 60 x 95 ft., brick and steel, Bway. and Westminster St., to Mahoney & Tucker, 72 Weybosset St. Archts. est. $500,000. Noted Feb. 18.

Conn., New Haven — APARTMENT — J. Heller, 18 Anthony St., will build 3 story, 65 x 160 ft., brick and steel, Elm and Boulevard Sts., by day labor. $150,000. C. H. Abramowitz, 42 Church St., archt.

N. Y., Brooklyn — OFFICE, THEATRE and STORE — H. E. Witteman, 6908 5th Ave., will build 14 story, 200 x 200 ft., brick, steel and stone, plain foundation, Flatbush Ave. extension and De Kalb Ave. $1,200,000. Work will be done by separate contracts. Engineer and architect not selected.

N. Y., New York — APARTMENTS — Baker Field Building Corp., c/o C. N. Whinston & Bro., engrs. and archts., 2 Columbus Circle, two 6 story, 120 x 160 ft. and 100 x 140 ft., brick, steel and stone, plain foundation, West 167th St. and University Ave., to Lever Constr. Co., 132 West 43rd St. Archts. est. $250,000 each.

N. Y., New York—APARTMENT—C. E. Forman, c/o J. E. R. Carpenter, engr. and archt., 598 Madison Ave., brick, steel and stone, plain foundation, 168 East 79th St., to T. E. Rhoades Co., Inc., 342 Madison Ave. Archts. est. $500,000.

N. Y., New York—APARTMENT—P. H. Constr. Co., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 5 story, brick, steel and stone, plain foundation, Walton Ave., by day labor. $250,000.

N. Y., New York — APARTMENT — Walart Constr. Co., c/o Margon & Glaser, archts. and engrs., 20 West 57th St., will build 5 story, 88 x 150 ft., brick, steel and stone, 206th St. and Perry Ave., by day labor. $300,000.

N. Y., New York—OFFICE—W. F. Chatlos, Broad St., Stratford, Conn., will build 27 story, brick, steel and stone, Lexington Ave. and 51st St., here, by day labor. J. W. Northrop, 211 State St., Bridgeport, Conn., archt.

Pa., Phila. — EXHIBITION—Sesquicentenial Comn., at office H. T. Baxter, executive secy., 926 Widener Bldg., piling and filling for site of Pennsylvania State Building, 1 story, 225x330 ft. with wing, 90 ft. at each end, stucco and steel, State St. and Pattison Ave., to Martin & Breen, 1613 Sansom St., $28,930. Noted Feb. 11.

Pa., Pittsburgh — HOSPITAL — West Pennsylvania Hospital, Friendship Ave., general contract 6 story and basement addition, to D. T. Riffle, 1007 Forbes St. Archts. est. $500,000.

Pa., Wilkes-Barre — APARTMENT and STORE—Lawrence Myers Estate, c/o D. T. Scotts, agt., 10 East Jackson St., general contract, 4 story and basement, 150x150 ft., brick and stone, Main St., to Gibbon & Kohl, 146 East Northampton St.; foundation, to M. B. Roth, 295 South Main St.; and steel, to McClintock-Marshall Constr. Co., Pottstown. Archts. est. $275,000.

Fla., Coral Gables—THEATRE and OFFICE—Coral Gables Theatre Co., Alcazazr Ave., 2 story, 100 x 150 ft., steel and rein.-con., Ponce de Leon Blvd., to Hemmings Constr. Co., Coral Gables, approximately $300,000.

Fla., St. Augustine—HOTEL, CLUB, etc. —See "Unclassified."

O., Cleveland Heights (Warrensville P. O.)—COMMERCIAL—C. Fair Development Co., c/o K. H. Smith, Chester 12th Bldg., Cleveland, 3 story and basement, 56 x 223 ft., brick, steel and concrete, 12456 Cedar Rd., here, to S. W. Emerson Co., 1836 Euclid Ave., Cleveland. Archts. est. $300,000.

Mich., Detroit—SERVICE and SALES—A. Kahn, archt., 1000 Marquette Bldg., 2 story and part basement, 131x147 ft., rein.-con. and brick, plain foundation, Hague Ave., to Malow-Barry Co., 2631 Woodward Ave., for Packard Motor Car Co., East Grand Blvd. Archts. est. $150,000. Noted Jan. 21.

Mich., Fordson (mail Detroit)—HOTEL—Owner c/o J. H. G. Steffens, archt., 415 Brainard St., Detroit, 4 story and basement, 60 x 100 ft., brick and steel, plain foundation, Jonatha Ave., to Malow-Barry Co., 2631 Woodward Ave., Detroit. Archts. est. $150,000. Noted Jan. 28.

Wis., Kenosha—THEATRE, STORE and OFFICE—Dahl Constr. Co., 1563 Salem Ave., will build 1 and 2 story, 68 x 172 ft., brick and concrete, plain foundation, Salem Ave., by day labor. $150,000. Private plans.

Ia., Des Moines — LODGE — Des Moines Consistory, general contract 5 story and basement, 117x163 ft., rein.-con., brick and steel, plain foundation, 6th and Park Sts., to A. H. Newmann Co., 519 Hubbell Bldg., $530,791; plumbing and heating, to Walker Plumbing & Heating Co., 1711 Grand St., $56,465. Noted Feb. 11.

Tex., San Antonio—HOTEL—Smith Bros. Development Co., Crockett, 12 story and basement, 122x150 ft., stone and brick, Villita and St. Marys Sts., to McKenzie Constr. Co., Travis Bldg., approximately $375,000. Noted Jan. 14.

Calif., Beverly Hills — CLUB — Bel-Air Country Club, 1 story, 80 x 100 ft. with 50 x 110 ft. and 20 x 90 ft. wings, rein.-con., to Benet & Co., 416 Beverly Dr., $151,250.

Calif., Los Angeles — BANK — Morgan, Walls & Clements, superv. archts., 1124 Van Nuys Bldg., 1 story and basement, 80 x 130 ft., rein.-con., North Main St., to Simpson Constr. Co., Bank of Italy Bldg., for Bank of Italy, 501 West 7th St. $185,000. Noted Jan. 14.

Calif., San Francisco—OFFICE—Hunter-Dulin & Co., 256 Montgomery St., approximately 5,000 tons steel for 24 story and basement, Sutter and Montgomery Sts., to U. S. Steel Products, Rialto Bldg.; grading, to Granfield, Farrar & Carlin, 67 Hoff Ave. Archts. total est. $3,000,000. Noted Feb. 4.

Calif., San Jose—THEATRE—Weeks & Day, archts., 315 Montgomery St., San Francisco, rein.-con. and steel, 1,500 seating capacity, South 1st St., to Barrett & Hilp, 918 Harrison St., San Francisco, $265,500. Noted Feb. 18.

Calif., Santa Monica — HOSPITAL — Santa Monica Hospital, 3 story and basement, 100 x 125 ft., rein.-con., 16th St. and Arizona Ave., to Western States Constr. Co., 6001 Santa Monica Blvd., Los Angeles. Noted Jan. 14.

Man., Winnipeg — DEPARTMENTAL STORE — Hudson Bay Co., 6 story, 200 x 400 ft., rein.-con. and brick, caisson foundation, Portage Ave., to Carter, Halls & Aldinger Co., Winnipeg, cost plus basis. Archts. est. $2,000,000.

Ont., Toronto—GARAGE—York-Adelaide Realty Co., York and Adelaide Sts., general contract 3 story, 100 x 200 ft., rein.-con., brick and stone, plain foundation, to Jackson Lewis Co. Ltd., Federal Bldg. Archts. est. $400,000.

Buildings—Educational Religious

Mass., Worcester—SCHOOL—City, Pub. Building Dept., having plans prepared by Frost, Chamberlain & Edwards, 390 Main St., 2 story and basement, brick and steel, Thorndyke Rd. $150,000.

R. I., Woonsocket — HIGH SCHOOL — City, School Com., City Hall, had plans prepared by W. F. Fountaine, 285 Main St., Junior High School, 3 story, brick and steel, Villa Nova Sect. $500,000.

N. Y., Albany—COLLEGE PHARMACY—Albany College of Pharmacy, W. Mansfield, dean, plans 3 story, brick and limestone, New Scotland Ave.

N. Y., Brooklyn—PAROCHIAL SCHOOL—St. Johns College, Lewis Ave., takes bids about Feb. 23, brick, steel and stone, plain foundation, Lewis Ave. $500,000. J. F.

See proposal advertisements on page 132, Advertising Section.

Buildings—Educational, Religious (Cont.)

Cook, Union Bldg., Newark, N. J., engr. and archt. Noted Jan. 7.

N. Y., Buffalo—CHURCH—St. Francis de Sales, Northland Ave. and Humbolt Parkway having preliminary plans prepared by Murphy & Olmstead, 1413 H St. N. W., Wash., D. C., 2 story, 86 x 140 ft., stone, Northland Ave. $200,000.

N. Y., Buffalo—UNIVERSITY—University of Buffalo, Main St., having plans prepared by C. K. Porter, 73 West Eagle St., additions and repairs to university. $300,000.

N. Y., Croton Falls—SCHOOL—Bd. Educ. having plans prepared by Knappe & Morris, engrs. and archts., 171 Madison Ave., New York City, brick, steel and stone school, plain foundation. $300,000.

N. Y., Depew — HIGH SCHOOL — Bd. Educ., A. Schoen, pres. having preliminary plans prepared by F. A. Spangenburg, 250 Delaware Ave., Buffalo, 3 story, 120 x 120 ft., brick and limestone addition. $150,000.

N. Y., Locust Valley — SCHOOL — Bd. Educ., plans brick, steel and stone, plain foundation. $375,000. Private plans.

N. J., Bernardsville—HIGH SCHOOL—Bd. Educ. Bernardsville Twp., having plans prepared by Rasmussen & Wayland, engrs. and archts., 36 West 47th St., New York City, brick, steel and stone, plain foundation. $260,000.

Pa., Dickinson — CHURCH, PARISH HOUSE and SCHOOL — Dickinson Presbyterian Church, having preliminary plans prepared by W. W. Johnson, 202 Herr St., Harrisburg, 1 story brick church, parish house, school and auditorium. $250,000.

Pa., Hughesville — HIGH SCHOOL — Hughesville Holding Co., c/o I. Shaffer, pres., plans 3 story and basement, 90 x 140 ft., brick and steel school, incl. gymnasium, etc. $150,000. Engineer and architect not announced.

Pa., Lancaster—CHURCH and SUNDAY SCHOOL — Faith Reformed Church, 526 South Duke St., had plans prepared by Richter & Eiler, 147 North 5th St., Reading, 1 story and basement, 69 x 109 ft. church and sunday school.

Pa., Lewisburg—CHILDRENS HOME—Northumberland Presbytery, J. H. Wolf, pres., Mt. Carmel, plans 3 story and basement, orphanage, hospital and school, here. $150,000.

Pa., Washington—LIBRARY and GYMNASIUM—Washington and Jefferson College, having plans prepared by Hopkins & Dentz, 415 Lexington Ave., New York City, for library and gymnasium. $150,000.

Ga., Atlanta—SCHOOLS—Election Mar. 24, $3,500,000 bonds, school buildings and equipment. W. Sims, mayor. Noted Jan. 21.

O., Cleveland — SCHOOL and PARISH HOUSE — Holy Cross Church, T. A. Kirby, pastor, having plans prepared by J. L. Collins, 7016 Euclid Ave., 2 story and basement, brick, steel and concrete, Lake Shore Blvd. and East 200th St. $150,000.

O., Mt. Vernon—CHURCH—1st Methodist Episcopal Church, c/o P. L. Wilkins, judge, soon lets contract 2 story and basement, 115x122 ft., brick, steel and concrete church. $200,000. Reibel Sons & Matheny, 1st Natl. Bank Bldg., Columbus, archts.

O., Painesville—DORMITORY, etc.—Lake Erie College for Women having plans prepared by A. Garfield, Natl. City Bldg., Cleveland, 1 and 2 story, brick, steel and concrete dormitory, music studio and power house, Euclid Rd. $400,000.

Ill., Urbana — ARCHITECTURAL—University of Illinois having plans prepared by J. J. White, 255 Administration Bldg., Urbana and C. A. Platt, 101 Park Ave., New York City, and soon takes bids 3 story rein.-con., brick and stone, on campus. $500,000.

S. D., Aberdeen—CHURCH—First Presbyterian Church, c/o F. E. Reese, had plans prepared by G. Fossum, 318 Van Slyke Bldg., and soon takes bids, 100 x 42 ft., rein.-con., brick and stone church. $150,000.

Mo., Kansas City — CHURCH, HOTEL, THEATRE — Linwood Blvd. Christian Church, B. A. Jenkins, pastor, Linwood Blvd. and Forest Ave., having preliminary sketches made by H. F. Almon, 1004 Orear Leslie Bldg., first 2 stories 150 x 275 ft., next 8 stories 150 x 160 ft., and a tower equal to about 6 stories, Linwood Blvd., Troost to Harrison Sts. $2,000,000.

Tex., Ranger—HIGH SCHOOL—Election soon $200,000 bonds, rein.-con., brick and stone, plain foundation for Bd. Educ. $200,000. Select architect soon.

Okla., Norman—GYMNASIUM—State Bd. Affairs, Capitol Bldg., Oklahoma City, had plans prepared by Layton, Hicks & Forsythe, Braniff Bldg., Oklahoma City, and takes bids in spring 2 story and basement, rein.-con. and brick, plain foundation, on campus, here, for University of Oklahoma. $186,000.

Calif., Auburn—HIGH SCHOOL—Voted $250,000 bonds, altering and constructing 2 additions, incl. auto mechanics shops, for Placer Union High School Dist. W. H. Weeks, 369 Pine St., San Francisco, archt. Noted Nov. 26.

Calif., Claremont — EDUCATIONAL — Claremont Church, having plans prepared by Allison & Allison, Hibernian Bldg., Los Angeles, 2 story and basement, 116 x 171 ft., stucco educational building. $150,000.

Calif., Escondido — HIGH SCHOOL — Escondido Union High School Dist. having plans prepared by Kistner & Co., Detwiler Bldg., 2 story and basement, 75 x 180 ft., rein.-con. and brick high school. Noted April 9.

Calif., Modesto—HIGH SCHOOL—Election $650,000 bonds, fireproof high school.

Calif., Pittsburg — HIGH SCHOOL and GYMNASIUM—Pittsburg High School Dist. having plans prepared by Stone & Warner, 337 17th St., Oakland, fireproof high school and gymnasium. $150,000.

Calif., Sanger—SCHOOL—Sanger Union High School Dist. plans election $270,000 bonds, additional wings and auditorium for high school.

Ont., Toronto — COLLEGIATE — Bd. Educ., 155 College St., having plans prepared by C. E. Dyson, c/o owner, 3 story and basement, rein.-con., brick and stone, plain foundation, in Parkdale. $165,000.

Ont., Toronto—SCHOOL—Holy Blossom Synagogue, 115 Bond St., plans 2 story and basement, rein.-con., brick and steel, plain foundation. $150,000. Engineer and architect not selected.

BIDS DESIRED

Mass., Fall River — HIGH SCHOOL — City, School Bd., taking bids 3 story and basement, 45 room, brick and steel, Norwood St. $750,000. L. G. Destremps, 11 Pleasant St., archt. Noted Nov. 12.

Mass., Framingham—CHURCH-PARISH HOUSE—Feb. 26, by 1st Unitarian Church, c/o C. M. Baker, archt., 25 Arch St., Boston, 2 story and basement, 43 x 120 ft. church and 40 x 85 ft. parish house, brick and steel, Vernon St. $150,000.

Mass., Orange—SCHOOL—Mar. 9, by Bd. Educ., brick, steel and stone, plain foundation. $200,000. Tooker & Marsh, 101 Park Ave., New York City, archts.

Mass., Woburn — CHURCH—Baptist Church, c/o C. B. Dunham, archt., 6 Beacon St., Boston, taking bids 1 story and basement, brick and steel, Winn and Park Sts. $150,000.

Conn., Danielson — HIGH SCHOOL — Mar. 10, by Town, F. A. Jacobs, chn. com., 2 story and basement, 50 x 91 ft. and 50 x 91 ft. brick and steel, addition Killimgly High School. $150,000. Sellew & Towner, 363 Main St., Middletown, Archts. Noted Dec. 24.

Conn., Middletown—LIBRARY—Mar. 3, by Wesleyan University, J. H. McConaughty, pres., Olen Memorial Library, brick and stone. $200,000. McKim, Meade & White, 101 Park Ave., New York City, archts.

Conn., Stamford—SCHOOL—Mar. 3, by City, C. H. Martin, school com., Rogers School, 3 story and basement, brick and steel, Lockwood Ave. $275,000. Allen & Chapman, 315 5th Ave., New York City, archts. Noted Feb. 18.

Pa., Phila.—SCHOOL—Mar. 2, by Bd. Educ., 19th and Chestnut Sts., J. D. Cassell, supt. buildings, 3 story, attic and basement, 109x165 ft., rein.-con. and brick, plain foundation, 6th and Master Sts. $500,000. I. T. Catharine, 19th and Chestnut Sts., archt.

Pa., Pittsburgh—RECTORY—Feb. 28, by St. Pauls Cathedral, 5th Ave. and Craig St., and C. G. Strong, archt., Keystone Bldg., 3 story and basement, irregular shape, 5th Ave. and Dithridge Sts. $350,000.

Pa., West Pittston (Pittston P. O.)—HIGH SCHOOL—Mar. 8, by School Dist., P. Beran, pres., 2 story and basement, 50x300 ft., brick and stone school. $250,000. Mack & Sahm, Coal Exch. Bldg., Wilkes-Barre, archts.

O., Dayton—SCHOOL—Mar. 19, by C. J. Schmidt, clk.-treas. Bd. Educ., for Harrison School, 2 story and basement, rein.-con. and brick, plain foundation, West Side. $275,000. Pretzinger & Musselman, Reibold Bldg., archts.

O., Lakewood (Cleveland P. O.) — SCHOOL — Mar. 13, by Bd. Educ., G. W. Grill, clk., 1456 Warren Rd., Cleveland, 2 story and basement, brick, steel and concrete, Lake and Whippoorwill Aves., here. $250,000. Howell & Thomas, 4500 Euclid Ave., Cleveland, archts. Noted Dec. 17.

O., Oakharbor — CHURCH — Mar. 3, by Corbusier, Lenski & Foster, archts., H. F. Keith Bldg., Cleveland, 1 story and basement, 56 x 140 ft., brick and steel, for St. Johns Lutheran Church, B. F. Brandt, pastor. $150,000.

Ind., Bloomington—SCHOOL—Mar. 1, by School Trustees, G. F. Holland, pres., 2 story, brick, steel and rein.-con. school $155,000. A. Grindle, Bloomington, archt. Noted Dec. 3.

Ind., Valparaiso—SCHOOL—Mar. 10, by Bd. Trustees, C. W. Bouches, supt., 3 story and basement, rein.-con. and brick school. $300,000. Perkins-Fellows & Hamilton, 814 Tower Court Bldg., Chicago, Ill., archts. Noted Jan. 7.

Ill., Polo—HIGH SCHOOL—Mar. 5, by Bd. Educ., H. Typer, secy., at G. A. R. Hall, 2 story and basement, 80x110 ft., concrete and brick high school. $150,000. Royer, Danley & Smith, Flat Iron Bldg., Urbana, archt.

Wis., Black River Falls—SCHOOL—Mar. 2, by Bd. Educ., A. P. Jones, clk., (1st unit), 2 story and basement, 60 x 180 ft., rein.-con., brick and steel, plain foundation. $150,000. E. Tough, Washington Bldg., Madison, archt.

Wis., Milwaukee—SCHOOL—Mar. 2, by Herbst & Kuenzli, archts., 130 Grand Ave., 3 story and basement, 68 x 133 ft., rein.-con., brick and tile, plain foundation, Grove St., for St. Stanislaus Church, 404 Mitchell St. $200,000. Noted Dec. 10.

Minn., Minneapolis—BOTANY—Mar. 4, by Dept. Administration & Finance, Capitol, St. Paul, 3 story and basement, rein.-con., brick and stone at University, here. $200,000. Former bids rejected. C. H. Johnston, 715 Capital Bank Bldg., St. Paul, archt. Noted Feb. 11.

Mo., Pittsburg—SCHOOL—Mar. 1, by Bd. Educ., 2 story and basement, 185 x 200 ft., and 2 story, 133 x 150 ft., brick and concrete school. $150,000. C. A. Smith, 800 Finance Bldg., Kansas City, archt.

Mo., St. Louis—SCHOOL—Mar. 3, by Bd. Educ., 911 Locust St., Lowell Grade School, 3 story, rein.-con., brick and stone, Von Phul and Linton Aves. $260,000. R. M. Milligan, c/o Bd. Educ., archt. and engr.

Neb., Grand Island—CHURCH—Mar. 3, by J. A. Duffy, bishop Catholic Church, brick and stone church. $200,000. Brinkham & Hagan, Emporia, Kan., archts.

Calif., Los Angeles—SCHOOL—Mar. 3, by Bd. Educ., Wiggins Trade School, 2 sections, one 2 story 120 x 250 ft., and other 10 story, 97 x 115 ft., rein.-con. school. To exceed $500,000. Ashley & Austin, Chamber of Commerce Bldg., archts. Noted Feb. 4.

Calif., Pasadena—HIGH SCHOOL—Mar. 1, by Bd. Educ., 2 story, 160 x 200 ft., rein.-con. addition to Center-Oak Knoll High School. $200,000. Austin & Ashley, Chamber of Commerce Bldg., Los Angeles, archts. Noted Jan. 28.

BIDS RECEIVED

Mass., Winchester—SCHOOL—Town, C. R. Main, chn., general contract 2 story and basement, brick and steel, Highland Ave., from Bennett Constr. Co., 10 Tremont St., Boston, $96,140. Noted Feb. 11.

Pa., Ardmore—HIGH SCHOOL—Lower Merion Twp. School Dist., Feb. 5, general contract, two 3 story and basement, 69x84 ft., rein.-con. and brick wings to Senior High School, plain foundation, Montgomery Ave. and Church Rd., from Wills-Bill Co., 1706 Sansom St., Phila., $274,724; heating and ventilating, from N. Connelly, 1404 North 18th St., $27,107. Noted Feb. 4.

O., Parma (Cleveland P. O.)—SCHOOL—Bd. Educ., I. D. Siegfried, clk., 2 story and basement, brick, steel and concrete, West 54th St., from Hebing Co., 1832 West 54th St., Cleveland, $176,900. Noted Feb. 4.

Calif., Los Angeles — HIGH SCHOOL — Bd. Educ., Feb. 10, general contract John Adams Junior High School, 3 story and basement, 148 x 168 ft., brick and rein.-con., from D. Callahan, Lankershim Bldg., $143,000. Noted Feb. 4.

Calif., Oakland — HIGH SCHOOL — Bd. Educ., Feb. 9, San Leandro Junior High School, 2 story, brick and steel, from Sample & Cody, Call Bldg., San Francisco, $308,000.

CONTRACTS AWARDED

Conn., Bridgeport — SCHOOL — St. Stephens Roman Catholic Parish, S. F. Chernitsky, pastor, 3 story and basement,

See proposal advertisements on page 132, Advertising Section.

Buildings—Educational, Religious (Cont.)

115 x 120 ft., brick and steel, Wordin Ave., to E. E. Bray Co., 164 State St. Archts. est. $200,000. Noted Feb. 18.

N. Y., Brooklyn—PARISH HOUSE and SCHOOL — St. Marks Methodist Episcopal Church, R. M. Moore, rector, 1695 Albermarle Rd., 3 story, brick, steel and stone, plain foundation, Beverly Rd. and East 21st St., to R. H. Hours, 103 Park Ave., New York City. Archts. est. $200,000.

N. Y., Long Beach—SCHOOL—Bd. Educ., brick, steel and stone, plain foundation, Neptune Blvd. and Chester Ave., to J. V. Schaefer, 157 East 44th St., New York City. Archts. est. $175,000. Noted Feb. 11.

N. J., Montclair—SCHOOL—Bd. Educ., New Bedford School, brick, steel and stone, plain foundation, to Reily Bros., 1919 Bway., New York City. Archts. est. $350,000.

N. J., Teaneck (mail West Englewood) —SCHOOL—Bd. Educ. Teaneck Twp., J. H. Ranges, clk., general contract School 2, Teaneck Rd., to W. J. Lange, Inc., Palisade, $74,976. Noted Jan. 7.

Pa., Donora—SCHOOL—School Dist., general contract 2 story and basement, irregular shaped addition to Castner School, to C. W. Shimp, Martins Ferry, Ohio. Archts. est. $150,000. Noted Jan. 28.

La., Bastrop — HIGH SCHOOL — Bd. Educ. Morehouse Parish, 2 story, 122 x 195 ft., brick and concrete, to P. Oliver & Son, Lake Charles, $165,000. Former contract rescinded. Noted Dec. 17.

Ind., Muncie — SCHOOL — Bd. Trustees East Indiana State Normal School, at office Ball Teachers College, Eastern Div., 2 story library and dormitory, at East Indiana Normal School, to A. J. Glaser Co., Muncie, $185,300. Noted Jan. 17.

Mich., Detroit—SCHOOL—Bd. Educ., 1354 Bway. Ave., general contract 2 story and basement, 110 x 200 ft., rein.-con., brick and steel, plain foundation, St. Aubin Ave., to Corrick Bros., 507 Owen Bldg., $202,000; heating, etc., to Drake Avery Co., 210 State St., $59,626. Noted Feb. 18.

Ill., River Forest (mail Oak Park)—HIGH SCHOOL—Trinity High School Corp., c/o Dominican Sisters & Sisters of Rosary, Park Ave., 3 story and basement, 130x300 ft., rein.-con., brick and stone. Lathrop St. near Division St., to E. L. Archibald Co., 111 West Washington St., Chicago. Archts. est. $500,000.

Neb. Bassett—HIGH SCHOOL—E. W. Towle, 2 story 59 x 91 ft., with 23 x 24 ft. extension, rein.-con. and brick to G. C. Bushoon Bros., Fairbury.

Neb., Lincoln — HIGH SCHOOL — J. L. Ludlum, 3 story and basement, 191 x 314 ft., rein.-con., brick and stone,, to Olson Constr. Co., 205 Chaplin Bldg., $475,000.

Okla., Tulsa—HIGH SCHOOL—Bd. Educ., C. D. Little, pres., general contract Grover Cleveland Junior High School, 2 story and basement, 116x214 ft., rein.-con. and brick, plain foundation, to J. W. Wilson, 214 Clinton Bldg., $168,486. Noted Dec. 17.

Federal Government Work

BIDS DESIRED

D. C., Wash.—Crusier, etc.—Apr. 1 (extended date) by Navy Dept., C. D. Wilbur, secy., for Scout Cruiser 25; also furnishing turbines and gears for Scout Cruisers 24 and 25; adv. E. N.-R. Feb. 25. Noted Dec. 31.

Ala., Mobile — Remodeling — Mar. 15, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

O., Dayton—Foundations—Mar. 22, at office Constructing Quartermaster, concrete foundations for administration and laboratory buildings, at Wright Field, here; adv. E. N.-R. Feb. 25.

Ind., Michigan City—Remodeling—Mar. 12, by Treas. Dept., at office Supervising Archt., Wash., D. C., 1 story, extension and remodeling U. S. Post Office, here. J. A. Wetmore, acting supervising archt.; adv. E. N.-R. Feb. 25.

BIDS RECEIVED

N. Y., Buffalo—Breakwater—U. S. Engineer Office, Federal Bldg., Feb. 18, concrete superstructure for breakwater in Buffalo Harbor, from O'Brien Constr. Co., Builders Exchange Bldg., Cleveland, O., $39,088. Noted Jan. 28.

O., Cincinnati—Mezzanine—Treas. Dept. at office Supervising Archt., Wash., D. C., mezzanine at U. S. Post Office, here, from David Gordon Building & Constr. Co., Burnet and North Avon Sts., $6,000. Noted Feb. 4.

S. D., Hot Springs—Refrigeration Plant —U. S. Veterans Bureau, Room 791, Arlington Bldg., Wash., D. C., refrigeration and ice making plant at U. S. Veterans Hospital, here, from Baker Ice Machine Co., 3601 North 16th St., Omaha, Neb., $23,085. Noted Jan. 28.

Calif., San Bernardino—From U. S. Cast Iron Pipe & Fdry. Co., Wright-Callendar Bldg., Los Angeles, 960 ft. 20 in. "C" bell and spigot c.i. pipe $5.86 per ft., and 2,700 ft. 12 in. centrifugal c.i. pipe $2.319.

CONTRACTS AWARDED

Ky., Louisville—Beartrap Leaves—U. S. Engineer Office, P. O. Box 72, beartrap leaves for Dams 45 and 49, Ohio River, to Nashville Bridge Co., foot Shelby Ave., Nashville, Tenn., $121,700. Noted Feb. 4.

Minn., Fort Snelling (br. St. Paul)—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., plumbing for U. S. Veterans Hospital, here, to W. F. Bunce, 224 Salmon St., Portland, Ore., $167,461; radial brick stack, to Alphons Custodis Chimney Constr. Co., Marquette Bldg., Chicago, Ill., $6,690; heating, H. Kelly & Co., Plymouth Bldg., Minneapolis, Minn., $163,757; and electrical work, to Domestic Utilities Supply Co., Oshkosh, Wis., $83,475. Grand total $421,383. Noted Feb. 18.

Tex., Galveston—Dredging—U. S. Engineer Office, dredging channel between Port Aransas and Corpus Christi, to Atlantic, Gulf & Pacific Co., 15 Park Row, New York City, N. Y., at $0.0839 per cu.yd., total $262,020. Noted Feb. 18.

Calif., San Rafael—Dredging—U. S. Engineer Office, Customs House, San Francisco, dredging in San Rafael Creek, Sect. A, to San Francisco Bridge Co., Nevada Bank Bldg., San Francisco, $24,162; and Sect. B, to Dutton Dredge Co., Mills Bldg., San Francisco, $12,169. Noted Dec. 17.

Unclassified

PROPOSED WORK

Land Development—Eggertsville, N. Y.—Tiernan, Porter & Doerr, 158 Pearl St., Buffalo, plan homesites, streets, sewers, etc., on 242 acres, Main St. and Bailey Ave., here. To exceed $25,000.

Transmission line—New Albion, N. Y.—Niagara Lockport & Ontario Power Co., Lafayette Bldg., Buffalo, plans extending transmission and distribition systems, here. To exceed $50,000.

Pier—Chester, Pa.—Ford Motor Co., Highland Park, Mich., plans 150x450 ft. rein.-con. and wood pile pier, extending into Delaware River, here. $350,000. A. Kahn, 100 Marquette Bldg., Detroit, Mich., engr.

Wharves, etc.—Miami, Fla.—Voted $1,500,000 bonds, additional wharves, warehouses, docks, etc. and $145,000 bonds, purchasing fire alarm equipment, etc. Noted Jan. 14.

Street Lighting System—Detroit, Mich.—Pub. Lighting Comn., 174 East Atwater St., plans high frequency electrodes on arc lamps, etc. along 4 mi. Woodward Ave. $33,000. F. R. Mistersky, 174 East Atwater St., genl. supt.

Swimming Pool, Golf Course, etc. — Ft. Smith, Ark.—Hardscrabbie Country Club, c/o W. J. Echols, pres., Merchants Natl. Bank Bldg., having preliminary plans prepared golf course, club house, swimming pool, walks, drives, etc.

Golf Links, etc.—California—Capuchino Golf Corp. (Harrigan & Widenmuller, interested, 308 Montgomery St., San Francisco) plans golf links and club house in San Mateo Co. between State Highway and Skyline Blvd., approximately 15 mi. from San Francisco. $1,000,000.

Car Barn, Repair and Inspection Shop—San Francisco, Calif.—City and San Francisco Co. plan fireproof car barn, repair and inspection shop, Potrero Ave. $200,000. M. M. O'Shaughnessy, city engr.

Gas Wells—Grimsby, Ont.—Lincoln Gas Co North Woolverton St., making plans drilling natural gas wells in Lincoln Co. $50,000. S. McKechnie, Dunnville, engr.

Pier — Cap-de-la-Madeleine, Que. — St. Maurice Valley Corp., plans wooden crib pier. $30,000. G. W. Slater, Cap-de-la-Madeleine, engr.

BIDS DESIRED

Fire Alarm System—New York, N. Y.—Mar. 1, Fire Dept., Municipal Bldg., constructing portion underground fire alarm system.

Subway—New York, N. Y.—Mar. 4, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., subway connecting Manhattan-Bronx Subway to Manhattan Elevated Line, Agreement "EE."

Conduit—Baltimore, Md.—Mar. 3, by Bd. Awards, vitr. clay conduit for Bureau Mechanical-Electrical Service. C. F. Goob, City Hall, engr.

Heating, Ventilating, etc.—Indianapolis, Ind.—Mar. 6, Bd. City Comrs., 150 North Meridian St., heating, ventilating, plumbing and sewerage work, etc., in School 78, Vermont St. and Sherman Dr. E. D. Pierre, 1134 Hume-Mansur Bldg., archt.

Lighting System—Chicago, Ill.—Mar. 4, by Board Local Impvts., Room 207, City Hall, street lighting system for Sects. 5-B, 6, 7, 8 and 9 of South Water Street Improvement. $50,000. T. A. Evans, engr. in charge.

Gas Holder—Appleton, Wis.—Wisconsin Traction, Light & Power Co., 112 E. College Ave., taking bids 500,000 cu.ft. gas holder, steel, new gas bench, etc. $300,000.

Asphalt Plant Equipment — Milwaukee, Wis. — Mar. 15, by Central Bd. Purchases, J. W. Nicholson, ch. buyer, stationary asphalt plant equipment.

Filtration Equipment — London, Ont. — London Utilities Comn., E. V. Buchanan, genl. mgr., taking bids filtration equipment for swimming ponds. $30,000.

BIDS RECEIVED

Timber Flume, etc.—Brooklyn, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, Feb. 19, constructing timber flume and signal tower foundations at Coney Island Yard, Shell Rd., here, from J. H. Duncan, Inc., 5718 2nd Ave., $271,292. Noted Feb. 18.

Heating, etc.—Ithaca, N. Y.—C. D. Bostwich, comptroller Cornell University, Jan. 26, heating and sanitary work, underground service connections, etc. for greenhouses at Dept. Floriculture and Vegetable Gardening at New York State College of Agriculture, here, from Holloran Bros., Elmira, $14,890. Noted Dec. 31.

Ornamental Lighting System—Glendale, Calif.—Ornamental street light system in portions San Fernando Rd. and Western Ave., from K. D. Miller, 218 South Greenleaf Ave., Whittier, $30,285.

Ornamental Lighting System — Long Beach, Calif.—Ornamental lighting system on Locust Ave. between 10th St. and Ocean Blvd., from J. C. Perry, Detwiler Bldg., Los Angeles, $33,750.

CONTRACTS AWARDED

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., subway Route 78, Sect. 8, along and under Fort Washington Ave., to S. B. Mason, 7 West 69th St., $1,967,641. Noted Feb. 11.

Land Development—St. Augustine, Fla.—D. P. Davis Properties, developing Davis Shores, incl. hotels, yacht club, casino, pools, 44 mi. street paving, 87 mi. sidewalks and curbing, 9 bridges, lighting system, water and gas mains, sewage disposal drains, etc., to Foundation Co., 120 Liberty St., New York City, N. Y., between $8,000,000 and $10,000,000.

Culverts—Sigourney, Ia.—See "Streets and Roads."

Materials

BIDS DESIRED

Pitch—New York, N. Y.—Mar. 3, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., 150 tons pitch joint filler.

Cement, Limestone Dust, etc.—Scranton, Pa.—Feb. 27, by W. A. Schunk, dir. Dept. Pub. Wks., at office of Mayor 600 tons each of asphaltic cement, limestone dust and washed sand, also 6 cars Portland cement and 1 car each of 10 and 12 in. standard terra cotta sewer pipe, etc.

Granite Blocks—Chicago, Ill.—Mar. 1, by City, Room 406 City Hall, 500 tons granite paving blocks f.o.b. cars at Municipal Plant Warehouse, 3150 South Sacramento Ave. A. A. Sprague, city comr.

Cables, etc.—Evansville, Ind.—Mar. 12, Bd. Pub. Safety, 1,815 ft. 4 steel taped parkway cable, 2,235 ft. 14 spinal weave cable, 14 fire alarm pedestals, 16 fire alarm boxes, etc.

BIDS RECEIVED

Sand Grit—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., Feb. 17, 3,000 cu.yd. sand grit also 3,000 cu.yd. concrete and paving sand, from Rosoff Sand & Gravel Corp., 152 West 42nd St., New York City, $4,335 each. Noted Feb. 11.

CONTRACTS AWARDED

Gravel — Holly Springs, Miss. — See "Streets and Roads."

See proposal advertisements on page 132, Advertising Section.

HANDY-ANDY

THE BIG LITTLE *PULLER* FOR CONTRACTORS

Truck mired? Just unship HANDY ANDY, rig it up, run a 7/8-in. wire cable to the truck and ONE MAN will move it!

HANDY ANDY should be part of the equipment of every motor truck you operate. For this compact, husky, all steel PULLER will not only keep your truck in service, but can be used for 1000 and 1 other odd jobs. It will work in the closest quarters.

It's built for you contractors—not just "adapted." It's made in hand or tractor-operated types, and it has the Waldron reputation squarely behind it.

Details? Write us and we'll tell you ALL about HANDY ANDY by return mail.

Manufactured by the

JOHN WALDRON CORPORATION
NEW BRUNSWICK, N. J.

"Established 1827"

CONSTRUCTION NEWS

Engineering News-Record, Mar. 4, 1926

Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired, and contracts awarded, are the following big jobs:

Proposed Work

Water and power development, Niagara Falls, N. Y., Lower Niagara River Power and Water Supply Co. plans power and water development, $35,000,000.

Office, New York, N. Y., New York Central Railroad Co. having plans prepared, $16,000,000.

Power plant, St. Louis, Mo., Union Electric Light & Power Co., plans to expend $11,000,000 in construction.

Y. M. C. A. Cleveland, O., Y. M. C. A. having surveys made, $4,000,000.

Railroad, Illinois, Pennsylvania R.R. Co., plans 10.3-mi. double track, $4,000,000.

High school, Louisville, Ky., Bd. Educ. plans high schools, $3,500,000.

Cement plant, Davenport, Iowa, Dewey Portland Cement Co., having plans prepared, $3,000,000.

Hotel and restaurant, Atlantic City, N. J., Childs Co., having plans prepared, $2,500,000.

Paving, Texas, Beaumont-Jefferson Co., plan bond election for paving 90-mi., $2,500,000.

Parkway, New York, Westchester Park Comn. plans extended Bronx River Parkway, $2,000,000.

Cement plant, Seattle, Wash., Washington Portland Cement Co., plans plant, $2,000,000.

Factory, St. Louis, Mo., Koken Co., plans factory, $2,000,000.

Roadwork, Clinton, Iowa, Clinton Co., plans 33-mi. road work, $1,500,000.

Sea Wall, Gulfport, Miss., Harrison Co., plans bond election, $1,400,000.

Bids Wanted On Big Jobs

Drainage, Baltimore, Md., Pub. Impvt. Comn. soon takes bids, $7,500,000.

High school, Chicago, Ill., Mar. 16. Bd. Educ. $4,000,000.

Hotel, Chicago, Ill., Kissman & Hirschfeld, archts. takes bids in March, $3,000,000.

Dredging, Galveston, Tex., U. S. Engineers Office takes bids about June 1, $3,000,000.

Piers, Poughkeepsie, N. Y., Mar. 30, State Dept. Pub. Wks., $2,145,535.

Dock, Superior, Wis., Mar. 12, Great Northern R.R. Co., St. Paul, Minn., $1,000,000.

Large Contracts Let During Week

Office, New York, N. Y., M. Natanson to G. Richard Davis, $6,000,000.

Subway, New York, N. Y., Bd. Transportation to La Rocca Constr. Co., $4,680,064.

Theatre, store, apartment, Waukegan, Wis., W. G. Burnett to J. J. Redding & Co., $1,200,000.

Theatre, Omaha, Neb., A. H. Blank Theatre Co. to Seldon-Breck Co., $1,000,000.

Warehouse, Houston, Tex., Southern Pacific R.R. Co. to Dwight P. Robinson Co., $1,000,000.

Hotel, Denver, Colo., Points Hotel Co. to H. Stenmark, $1,000,000.

PROPOSALS

For Proposals Advertised
see pages 151-156
Advertising Section

Bids Close		See Eng. News-Record
	WATERWORKS	
Mar. 5	Long Island City, N. Y.	Feb. 25
Mar. 5	Brooklyn, N. Y.	Feb. 25
Mar. 5	New York City, N. Y.	Feb. 25
Mar. 6	Leamington, Ont.	Mar. 4
Mar. 8	Saugerties, N. Y.	Feb. 25
Mar. 8	Belle River, Ont.	Feb. 25
Mar. 8	White Springs, Fla.	Mar. 4
	Adv. Feb. 25 and Mar. 4.	
Mar. 9	Amarillo, Tex.	Mar. 4
Mar. 9	Medford, Ore.	Feb. 25
Mar. 9	Detroit, Mich.	Feb. 25
Mar. 9	Marshfield, Mo.	Mar. 4
Mar. 10	Mount Union, Pa.	Mar. 4
Mar. 10	Niagara Falls, N. Y.	Mar. 4
Mar. 10	Kinston, N. C.	Mar. 4
Mar. 11	Brooklyn, N. Y.	Mar. 4
Mar. 11	Milwaukee, Wis.	Feb. 25
Mar. 12	Mount Shasta (Weed P. O.), Calif.	Mar. 4
Mar. 12	Ohiowa, Neb.	Mar. 4
Mar. 12	Abilene, Tex.	Mar. 4
	Adv. Feb. 25 and Mar. 4.	
Mar. 15	Crane, Mo.	Feb. 18
Mar. 15	Edmonton, Alta.	Feb. 25
Mar. 16	San Rafael, Calif.	Feb. 25
Mar. 16	St. Louis, Mo.	Feb. 25
Mar. 17	Saugerties, N. Y.	Feb. 25
	Adv. Feb. 25 and Mar. 4.	
Mar. 17	Wilmington, Del.	Feb. 25
Mar. 22	San Diego, Calif.	Mar. 4
Mar. 22	Wolf Point, Mont.	Mar. 4
	Adv. Mar. 4.	
Mar. 22	Yonkers, N. Y.	Mar. 4
	Adv. Mar. 4.	
Mar. 26	East Paterson, N. J.	Feb. 18
Mar. 26	Wash., D. C.	Mar. 4
	Adv. Mar. 4.	
Mar. 31	Warsaw, Ill.	Mar. 4
	SEWERS	
Mar. 6	Cudahy, Wis.	Mar. 4
Mar. 6	Milwaukee, Wis.	Mar. 4
Mar. 9	St. Paul, Minn.	Mar. 4
Mar. 10	Waco, Tex.	Jan. 7
Mar. 10	Ravenna, O.	Mar. 4
Mar. 10	Phila., Pa.	Mar. 4
Mar. 10	Charlotte, N. C.	Mar. 4
	Adv. Mar. 4.	
Mar. 12	Buffalo, N. Y.	Mar. 4
Mar. 12	Pontiac, Mich.	Mar. 4
	Adv. Mar. 4.	
Mar. 12	Wash., D. C.	Mar. 4
	Adv. Mar. 4.	
Mar. 15	Waco, Tex.	Jan. 21
Mar. 16	West Palm Beach, Fla.	Feb. 18
	Adv. Feb. 18 to Mar. 4.	
Mar. 16	Barrington, Ill.	Mar. 4
Mar. 17	Wichita Falls, Tex.	Feb. 25
Mar. 18	Chicago, Ill.	Mar. 4
Mar. 24	Kansas City, Mo.	Mar. 4
	Adv. Mar. 4.	
Mar. 25	Sioux Falls, S. D.	Mar. 4
	Adv. Mar. 4.	
	BRIDGES	
Mar. 6	Waynesburg, Pa.	Mar. 4
Mar. 8	Mercer, Pa.	Feb. 18
	Adv. Feb. 18 to Mar. 4.	
Mar. 9	Louisiana	Feb. 18
Mar. 9	Indiana	Feb. 25
Mar. 10	Alabama	Feb. 25
Mar. 12	Tennessee	Feb. 25
Mar. 16	South Carolina	Feb. 25
Mar. 16	Michigan	Mar. 4
Mar. 18	Laverne, Okla.	Feb. 11
Mar. 30	Tampa, Fla.	Feb. 25
	Adv. Feb. 25 and Mar. 4.	
Mar. 30	Louisiana	Feb. 25
	Adv. Feb. 25 and Mar. 4.	
Mar. 30	Poughkeepsie, N. Y.	Mar. 4
	Adv. Mar. 4.	
Mar. 30	Louisiana	Mar. 4
Apr. 6	Jones, La.	Mar. 4
	EXCAVATION, DRAINAGE IRRIGATION, LEVEES RIVER AND HARBOR	
Mar. 10	St. James, Minn.	Feb. 25
Mar. 10	Newark, N. J.	Mar. 4
	Adv. Mar. 4.	
Mar. 12	New Jersey	Feb. 25
Mar. 16	New Jersey	Mar. 4
Mar. 25	Hammond, La.	Mar. 4
Mar. 26	Shreveport, La.	Mar. 4
Apr. 5	Peru, Ind.	Mar. 4
	Adv. Mar. 4.	
	STREETS AND ROADS	
Mar. 5	New York	Feb. 25
	Adv. Feb. 18 to Mar. 4.	
Mar. 6	Lebanon, Ind.	Feb. 25
Mar. 8	Muskegon, Mich.	Feb. 18
Mar. 8	Indianapolis, Ind.	Feb. 18
Mar. 8	De Kalb, Ill.	Feb. 25
Mar. 8	Hastings, Neb.	Mar. 4
Mar. 8	Maryville, Mo.	Mar. 4
Mar. 8	Kalamazoo, Mich.	Mar. 4
Mar. 9	Grand Rapids, Mich.	Mar. 4
Mar. 9	Maryland	Feb. 25
	Adv. Feb. 25 and Mar. 4.	
Mar. 9	North Dakota	Feb. 18
Mar. 9	Rosedale, Miss.	Feb. 18
Mar. 9	South Dakota	Feb. 25
Mar. 9	North Dakota	Feb. 25
Mar. 9	Eagle Lake, Tex.	Feb. 25
Mar. 9	Quebec	Feb. 25
Mar. 9	Phila., Pa.	Mar. 4
Mar. 9	Wisconsin	Mar. 4
Mar. 9	Tampa, Fla.	Mar. 4
Mar. 9	Towson, Md.	Mar. 4
Mar. 10	Baltimore, Md.	Mar. 4
Mar. 10	Alabama	Feb. 11
Mar. 10	Birmingham, Ala.	Feb. 18
Mar. 10	Wash., D. C.	Feb. 18
Mar. 10	Delaware	Feb. 18
Mar. 10	North Dakota	Feb. 25
Mar. 10	Alabama	Mar. 4
Mar. 10	Chicago, Ill.	Mar. 4
Mar. 10	Altoona, Pa.	Mar. 4
Mar. 11	North Dakota	Feb. 25
Mar. 11	Tuckerton, N. J.	Feb. 25
Mar. 11	Johnson City, Tenn.	Mar. 4
Mar. 12	Tampa, Fla.	Mar. 4
	Adv. Mar. 4.	
Mar. 12	Tennessee	Feb. 25
	Adv. Feb. 25 and Mar. 4.	
Mar. 12	Ebensburg, Pa.	Mar. 4
Mar. 15	Anderson, Ind.	Mar. 4
Mar. 15	Summerville, W. Va.	Feb. 25
Mar. 15	Florida	Feb. 25
Mar. 15	Oklahoma	Feb. 25
Mar. 15	Reno, Nev.	Mar. 4
Mar. 15	Okemah, Okla.	Mar. 4
Mar. 16	West Virginia	Feb. 25
	Adv. Feb. 25 and Mar. 4.	
Mar. 16	Louisiana	Feb. 18
Mar. 16	St. Louis, Mo.	Feb. 25
Mar. 16	Sheboygan Falls, Wis.	Mar. 4
Mar. 16	Montana	Mar. 4
Mar. 16	Washington	Mar. 4
Mar. 17	Rhode Island	Mar. 4
	Adv. Mar. 4.	
Mar. 19	Joliet, Ill.	Mar. 4
Mar. 19	Winfield, Kan.	Feb. 25
Mar. 19	Cleburne, Tex.	Mar. 4
Mar. 22	New Jersey	Mar. 4
	Adv. Mar. 4.	
Mar. 23	Larned, Kan.	Mar. 4
Mar. 23	Pennsylvania	Feb. 25
	Adv. Feb. 25 and Mar. 4.	
Mar. 24	Holton, Kan.	Mar. 4

See proposal advertisements on page 151, Advertising Section.

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Jointing Water Mains

Laying 20-in. c. i. water mains with LEADITE joints thru rough and mountainous country.

Whether you are building an entirely new system or making an extension, laying large or small mains, you will save time, money and labor by using LEADITE.

In making a LEADITE joint NO CAULKING is necessary. Just yarn the joint and pour it full of molten LEADITE; it is an easy and quick operation.

LEADITE allows you to lay more pipe per day. This means getting water into the line without delay.

The quicker you get water to the consumer, the sooner the line produces revenue.

LEADITE makes the work easier on the men by eliminating much of the drudgery of pipe laying. You know what this means in the cold of winter and the heat of summer, and in bad trenches.

The varied applicability of LEADITE makes it the ideal material for jointing cast iron B. & S. water mains.

You will use LEADITE sooner or later as its advantages cannot help but appeal to you favorably.

Familiarize yourself with LEADITE now.

LEADITE does not corrode or rust.

Users know LEADITE makes a good joint.

LEADITE joints improve with age.

LEADITE has been successfully tested and used for over 30 years.

Thousands of miles of pipe jointed with LEADITE are in service.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids Close		See Eng. News-Record
Mar. 25	Florida	Feb. 18
	Adv. Feb. 18 to Mar. 4.	
Mar. 26	Hays, Kan.	Mar. 4
Mar. 29	Oskaloosa, Kan.	Mar. 4
Mar. 30	Ottawa, Kan.	Mar. 4
Mar. 31	Erie, Kan.	Mar. 4

BUILDINGS—COMMERCIAL

Mar. 6	Norwich, Conn.	Mar. 4
Mar. 7	Phila., Pa.	Mar. 4
Mar. 8	Springfield, Mo.	Mar. 4
Mar. 9	Seymour, Ind.	Mar. 4
Mar. 10	London, Ont.	Feb. 25
Mar. 11	Thiells, N. Y.	Feb. 25
	Adv. Feb. 25 and Mar. 4.	
Mar. 12	Pontiac, Mich.	Mar. 4
Mar. 12	Trenton, N. J.	Mar. 4
Mar. 13	Milwaukee, Wis.	Mar. 4
Mar. 15	Altoona, Pa.	Feb. 11
Mar. 15	Muncie, Ind.	Feb. 18
Mar. 15	Los Angeles, Calif.	Mar. 4
Mar. 15	Williamsport, Pa.	Mar. 4
Mar. 12	Anniston, Ala.	Mar. 4
Mar. 18	Catonsville (br. Baltimore), Md.	Mar. 4
Mar. 20	West Springfield (br. Springfield), Mass.	Mar. 4
Apr. 1	Gulfport, Miss.	Mar. 4
Apr. 1	Lakewood (br. Cleveland), O.	Feb. 11
Apr. 1	Moline, Ill.	Jan. 14
Apr. 1	Youngstown, O.	Dec. 31

BUILDINGS—INDUSTRIAL

Mar. 5	Phila., Pa.	Mar. 4
Mar. 9	Phila., Pa.	Mar. 4
Mar. 9	Iowa City, Ia.	Mar. 4
Mar. 15	New Orleans, La.	Mar. 4
Mar. 15	Des Moines, Ia.	Mar. 4
Mar. 15	Lankershim, Calif.	Feb. 25

BUILDINGS—EDUCATIONAL, RELIGIOUS

Mar. 6	Indianapolis, Ind.	Mar. 4
Mar. 8	West Pittston (Pittston P. O.), Pa.	Feb. 25
Mar. 8	Maplewood (br. South Orange), N. J.	Feb. 18
Mar. 8	Dayton, O.	Feb. 11
Mar. 9	Orange, Mass.	Feb. 25
Mar. 10	Valparaiso, Ind.	Feb. 25
Mar. 10	Danielson, Conn.	Feb. 25
Mar. 10	Stowe (mail Lowell), O.	Mar. 4
Mar. 10	Goldsboro, N. C.	Mar. 4
Mar. 10	Minneapolis, Minn.	Mar. 4
Mar. 11	Columbia, Pa.	Mar. 4
Mar. 13	Lakewood (Cleveland P. O.), O.	Feb. 25
Mar. 15	Lewistown, Pa.	Jan. 21
Mar. 15	Ypsilanti, Mich.	Mar. 4
Mar. 16	Chicago, Ill.	Mar. 4
Mar. 17	Anderson, Ind.	Mar. 4
Mar. 17	Baltimore, Md.	Mar. 4
Mar. 19	Dayton, O.	Feb. 25
Mar. 22	East Cleveland (Cleveland P. O.), O.	Mar. 4
Apr. 14	Fordson (Detroit P. O.), Mich.	Mar. 4

FEDERAL GOVERNMENT WORK

Mar. 8	Post Office—Jackson, Mich.	Feb. 18
Mar. 9	Cement—Louisville, Ky.	Feb. 11
	Adv. Feb. 11 to Mar. 4.	
Mar. 10	Post Office—Terre Haute, Ind.	Feb. 18
Mar. 12	Remodeling—Michigan City, Ind.	Feb. 25
Mar. 15	Remodeling—Mobile, Ala.	Feb. 25
Mar. 15	Dam—Louisville, Ky.	Feb. 18
	Adv. Feb. 18 to Mar. 4.	
Mar. 16	Wicket Irons, etc.—Louisville, Ky.	Mar. 4
	Adv. Mar. 4.	
Mar. 16	Walks—Camp Custer (br. Bottle Creek), Mich.	Mar. 4
Mar. 17	Radio Tower — Eureka, Calif.	Mar. 4
Mar. 17	Dredging—Toledo, O.	Feb. 18
	Adv. Feb. 18 to Mar. 4.	
Mar. 22	Foundations—Dayton, O.	Feb. 25
	Adv. Feb. 25 and Mar. 4.	
Mar. 24	Ash Handling Equipment — Great Lakes (br. Waukegan), Ill.	Mar. 4
Mar. 25	Roadway—Florence, Ala.	Mar. 4
	Adv. Mar. 4.	
Mar. 27	Remodeling—Fort Wayne, Ind.	Mar. 4
	Adv. Mar. 4.	
Mar. 29	Gates—Denver, Colo.	Mar. 4
	Adv. Mar. 4.	
Apr. 1	Cruiser, etc.—Wash., D. C.	Feb. 25
	Adv. Feb. 25.	

UNCLASSIFIED

Mar. 6	Heating, Ventilating, etc. — Indianapolis, Ind.	Feb. 25
Mar. 11	Subway—Wash., D. C.	Mar. 4
Mar. 12	Dock—Superior, Wis.	Mar. 4
Mar. 16	Culverts—Primghar, Ia.	Mar. 4
Mar. 18	Lighting System—Gouverneur, N. Y.	Feb. 18
Mar. 23	Panels, Filters, etc.—Wellington, N. Z.	Jan. 21
Mar. 24	Heating System—Rochester, N. Y.	Mar. 4
	Adv. Mar. 4.	

MATERIALS

Mar. 9	Oils, etc.—Iowa	Mar. 4
Mar. 9	Road Oil—Chicago, Ill.	Mar. 4
Mar. 9	Road Tar—La Crosse, Wis.	Mar. 4
Mar. 9	Asphalt—London, Ont.	Mar. 4
Mar. 10	Limestone, etc.—Chicago, Ill.	Mar. 4
Mar. 11	Paving Materials—Buffalo, N. Y.	Mar. 4
Mar. 12	Cables, etc.—Evansville, Ind.	Feb. 25
Mar. 15	Road Signs—Minnesota	Mar. 4
Mar. 16	Paints, etc.—Iowa	Mar. 4
Mar. 20	Road Oil—Sturgeon Bay, Wis.	Mar. 4
Mar. 22	Pipe—Montreal, Que.	Mar. 4
Apr. 6	Lumber—Jones, La.	Mar. 4

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Miss., Biloxi—See "Unclassified."

Miss., Okolona—Soon takes bids 100,000 gal. steel tank on 125 ft. steel tower. A. C. Rowe, city clk.

O., Columbus—Franklin Co. soon takes bids 20,760 ft. 6- to 16-in. c.i. mains in Clinton Twp., Impvt. Dist. 2, $54,000, and 11,820 ft. 6- to 12-in. c.i. mains in Franklin Twp., Impvt. Dist. 79, $28,000; 2,800 ft. 8 in. and 340 ft. 6 in. extension sewers, etc. in Clinton Twp. Impvt. Dist. 2, $4,700. E. G. Bradbury, 406 Court House Annex, co. engr.

Mich., Warren — Making plans waterworks, incl. mains, connections, and pumping equipment. $53,000. G. H. Ruhling & Co., 16549 Woodward Ave., Highland Park, engrs.

Ill., Collinsville—Defeated $40,000 bonds, waterworks improvements. Noted Jan. 7.

Ill., Grayslake—Village Clerk takes bids about Mar. 5, water and sewer extensions in various streets. $25,000. Marr, Green & Co., 400 North Michigan Ave., Chicago, engrs.

Ill., Wilsonville (R. Sta. Dorchester) — Making preliminary plans waterworks and distribution system, incl. several miles 4- to 8-in. c.i. mains, etc. $50,000. W. A. Fuller Co., 1917 Ry. Exch. Bldg., St. Louis, Mo., engrs.

Wis., Whitefish Bay—W. Volkman, village clk., making plans extending 6.5 mi. c.i. mains in various streets. T. F. Buckley, Village Hall, engr.

Ia., Dubuque—Plans 500,000 gal. rein.-con. circular reservoir, 85 ft. diam., 12 ft. deep, with rein.-con. slab cover, also 42 x 140 ft. rein.-con. slab cover for present reservoir. Engineer not selected.

Nebraska—Omaha Metropolitan Utilities Dist. plans approximately 10 mi. mains between Omaha and Ft. Crook. $50,000-$75,000. T. A. Liesen, City Hall, Omaha, engr.

Neb., Beatrice — Election soon $25,000 bonds, 2 m.g. reservoir. C. E. Thornburg, Beatrice, engr.

Mo., Savannah—Election Mar. 9, $60,000 bonds, impounding reservoir and filtration plant, etc. J. M. Shikles & Co., 708 New York Life Bldg., Kansas City, engrs. Noted Oct. 29.

Mo., Webster Groves (Ind. br. St. Louis) —Election Mar. 16, $150,000 bonds, rein.-con. reservoir and extending mains in various streets.

Tex., Houston—Election soon $1,000,000 bonds improving water supply. J. C. McVea, city engr.

Tex., Nacogdoches—Voted $50,000 bonds, waterworks improvements. Address W. I. Baker, mayor. Noted Jan. 7.

Okla., Kaw City — Making preliminary plans waterworks extensions, incl. mains, pumping equipment, etc. $20,000. Grant, Fulton & Letton, 505 Bankers Life Bldg., Lincoln, Neb., engrs.

Wash., Bellingham — City Water Dept., J. B. McMillan, supt., plans mains in South Bellingham. $78,000.

Wash., Tacoma—City Water Dept., plans replacing 2,600 ft. wooden stave gravity pipe line from Green River with 52 and 54 in. steel pipe. $66,000. Noted July 30.

Calif., Beaumont — Beaumont Irrigation Dist., plans election $25,000 bonds, drilling wells, purchasing pumps and constructing pipe line. C. R. Sumner, H. W. Hellman Bldg., Los Angeles, engr.

Calif., Beverly Hills—Plans to purchase two multiplex type, electric, direct connected booster pumping units, complete with motors. B. J. Firminger, city clk.

Calif., Orange — Plans election $215,000 bonds, improving water system. J. B. Lippincott, Central Bldg., Los Angeles, consult. engr.

Calif., Redwood City—City plans to purchase 2,000 lin.ft. 6 in., and 6,000 lin.ft. 4 in. c.i. Class B water pipe, standard weight, bell and spigot, not less than 12 ft. lengths and not more than 16 ft. lengths, also four 6 in. and sixteen 4 in. c.i. tees. W. A. Price, city clk.

Calif., Rio Vista—Plans election $16,250 bonds, c.i. pipe system, and $13,500 bonds, to purchase new pump and gas engine.

Calif., Riverside — Making plans 42 in. reinforced pipe line, 12 m.g. reservoir, and 30 in. steel pipe line connecting reservoir to existing mains. $350,000 or more. A. P. Campbell, city engr. Noted Jan. 7.

Calif., Walnut Creek — Plans election $25,000 or more bonds, purchase privately owned water system, approximately $6,500, and balance, extensions and improvements.

Que., Quebec—Plans aqueduct extension. $90,000. W. D. Baillarge, Quebec, engr.

Que., Shawinigan Falls—Plans extending actual waterworks to Lee Hetres Ward. $38,000. J. H. Valiquet, Shawinigan Falls, engr.

Ont., Chatham—Plans replacing existing steam pumps used as stand by units with gasoline driven 3 stage centrifugal pumps. $10,000-$15,000. C. H. Fuller, City Hall, engr.

Ont., Grimsby — Town Waterworks Comn. plans new 1,000 x 1,500 ft. steel intake pipe with flexible joints. $15,000.

Ont., Hamilton—City Council plans replacing waterworks steam driven pumps with gasoline driven equipment. W. McFaul, City Hall, engr.

Ont., Owen Sound—Pub. Utilities Comn., C. Gordon, City Hall, plans waterworks chlorinating system. $5,000.

Ont., Toronto — Plans equipment at waterworks plant for removal chlorine taste from water supply. $32,262. R. C. Harris, City Hall, engr.

Ont., Toronto—Making plans 2,000 ft. 16 in. c.i. main connecting main on Macpherson Ave. with main on Wrentham Pl., $35,000; also 2,600 ft. 20 in. c.i. main connecting between mains on St. Clair Ave. and Cottingham Rd., $58,142. R. C. Harris, City Hall, engr.

Ont., Toronto—Scarborough Twp. soon takes bids 1,000 gal., 3 stage centrifugal pump with 100 hp. electric motor. $7,500. R. Harrison, 1361 Kingston Rd., engr.

Ont., Wallaceburg—Town Council, C. B. Jackson, clk., plans to purchase 100 waterworks meters. $1,500.

Ont., Windsor—City Waterworks Comn. plans steam driven emergency pump and enlarging pumping station. $25,000. M. E. Brian, City Hall, engr.

Sask., Saskatoon — Plans 2 oil driven pumps and generator in pumping station, also replacing present steam driven standby pumps in station. $40,000. G. D. Archibald, city engr.

BIDS DESIRED

N. Y., Brooklyn—Mar. 11, by Park Bd., Arsenal Bldg., Central Park, 5th Ave. and 46th St., New York City. F. P. Gallatin, pres., vitr. and c.i. drains at Atlantic Ocean Terminus of Ocean Parkway, here.

N. Y., Yonkers—Mar. 22, at office Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, recirculating, filtering and sterilizing equipment plant in filter room in connection with outdoor swimming pool, Tibbetts Park, here, Contr. 79. J. Downer, ch. engr.; adv. E. N.-R. Mar. 4. Noted Feb. 11 under "Unclassified."

Pa., Mount Union — Mar. 10, by C. R. Gracey, secy. Boro Council, Municipal Hall, 4,500 ft. 12 in. c.i. pipe in Singers Gap to proposed storage reservoir. D. W. Dillman, Altoona Trust Bldg., Altoona, engr.

D. C., Wash.—Mar. 26, at office Washington Suburban Sanitary Comn., Evans Bldg., New York Ave. N. W., watermains and sewers, Contrs. 58- W & S 59-W & S. R. B. Morse, Hyattsville, Md., ch. engr. of dist.; adv. E. N.-R. Mar. 4.

N. C., Kinston — Mar. 10, by Executive Com. Caswell Training School, alterations and additions to boys dormitory, incl. pump house, reservoir, water system, 2 centrifugal pumps, 1 fire pump of 1,000 gal capacity per minute, etc. Benton & Benton, Wilson, archts.

Fla., White Springs—Mar. 8, by Town Bd. Bond Trustees, improving waterworks and sewerage systems, etc. Main Eng. Co.,

See proposal advertisements on page 151, Advertising Section.

Better Concrete in 3 Days

Engineering News-Record Editorial Explains High Early Strength Concrete

Concrete with a "3-day strength of over 2500 pounds has been attained," says *Engineering News-Record,* February 18, p. 266, in an editorial on the new methods for obtaining high early strength concrete as announced by the Universal Portland Cement Co. "And that strength," continues the editorial, "obviously is high enough to permit liberties of form removal and of use far beyond anything possible with concrete as ordinarily produced."

This quick-hardening, strong concrete is obtained in *3 days* with standard *Universal* cement, the same quality *Universal* as ordinarily used. Furthermore, by using these methods, you not only get strong concrete quickly, but in addition you get concrete that is much better and much stronger forever after.

Detailed information on this time-saving concrete made with standard *Universal* cement gladly furnished on request to

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland New York

Concrete for Permanence

Waterworks (Continued)

112 Baker St., Daytona Beach, engrs.; adv. E. N.-R. Mar. 4.

Ill., Shreveport — See "Contracts Awarded."

Ill., Warsaw—Mar. 31, by E. Ziegler, city clk., waterworks improvements, incl. 250 g.p.m. rapid sand filter plant, with pumps, motors, etc., 2,500 ft. 4 and 8 in. c.i. pipe, 100,000 gal. tank on tower, etc. $30,000. E. Flad & Co., 1312 Chemical Bldg., St. Louis, Mo., engrs.

Iowa, Ohlowa—Mar. 12 (extended date), by J. P. Moor, city clk., waterworks, Sect. 1, 35,000 gal. or 50,000 gal. tank on 100 ft. tower to balcony, erected on foundation; Sect. 2, 11,016 ft. 4- to 8-in. Class "B" c.i. McVane precalked joint c.i. or DeLavaud Class "150" c.i. pipe; Sect. 3, 4,220 ft. 2 in. galvanized or c.i. pipe; Sect. 5, 8 or 10 in. well, approximately 200 ft. deep; Sect. 6, single or two stroke deep well pump, 45 g.p.m. at 30 crank r.p.m.; Sect. 7, one 7½ or 10 hp. 3 phase, 220 volt, 1,200 r.p.m. A.C. motor; Sect. 8, labor and material to lay pipe and set hydrants, valves, etc.; Sect. 9, labor and tools, pipe fittings and material, etc., to install pump and motor; Sect. 10, furnishing labor, tools, etc., for pump house. Noted Jan. 28.

Mont., Wolf Point — Mar. 22, by City, deep well turbine equipment; adv. E. N.-R. Mar. 4.

Mo., Marshfield—Mar. 9, by City Clerk, complete waterworks and distribution system. $55,000. Gantt-Baker Co., 1116 West Main St., Oklahoma City, Okla., engrs. Noted Feb. 4.

Mo., Maryville—See "Streets and Roads."

Tex., Abilene—Mar. 12, by City Comn., 500,000 gal. elevated water tank. O. K. Hobbs, city engr.; adv. E. N.-R. Mar. 4.

Tex., Amarillo—Mar. 9, by J. D. Bartlett, city mgr., Abilene, municipal water supply system, here, for City. $75,000.

Tex., Floresville — Taking bids waterworks improvements. $40,000. F. E. Hess, Floresville, engr.

Okla., Pond Creek—City in market 350 g.p.m. centrifugal pump direct connected to 100 hp. Marine type gasoline engine for waterworks plant. J. H. Asher, mayor.

Calif., Mount Shasta (mail Weed)—Mar. 12, by City Trustees, extending waterworks, 4,200 cu.yd. excav., 12,500 ft. 10 in. pipe with fittings, one 100,000 gal. or one 200,000 gal. tank, etc. Former bids rejected. H. B. Ream, city engr. Noted Jan. 23.

Calif., San Diego — Mar. 22, by A. H. Wright, city clk., 8 mi. mains from El Capitan dam site to Lakeside Twp., and 17 mi. mains from Lakeside Twp. to University Heights reservoir, 30 and 36 in. c.i. B. and S., 32 and 36 in. lock bar steel or 34 and 38 in. double and triple riveted steel pipe, etc. F. A. Rhodes, city engr. T. A. Mills, assistant engr.

Ont., Leamington—Mar. 6, by A. Hairsine, clk. Mersea Twp., 80 hp. Diesel engine on concrete foundation with standard equipment, at East Marsh Pumping station. $15,000-$20,000. J. J. Newman, Davis Blk., Windsor, engr.

Ont., Niagara Falls—Mar. 10, by B. Carr, engr., City Hall, 5 m.g. capacity electrically driven centrifugal pump, for Water Comrs.

BIDS RECEIVED

N. Y., Buffalo—Commissioner Pub. Wks., Feb. 18, from Mueller Co., Decatur, Ill., corporation cocks, $1,663; from R. E. Wood & Co., 400 Chestnut St., Phila., Pa., one hundred 5 ft. hydrants, $7,250; from Reading Steel Casting Co., Inc., c/o Amer. Chain Co., Inc., 929 Connecticut Ave., Bridgeport, Conn., two hundred seventy-seven 6- to 16-in. iron body, bronze mounted, heavy hub end, double gate valves, $9,484; from J. B. Clow & Sons, 201-299 North Talman Ave., Chicago, Ill., 6- to 26-in. c.i. pipe, $48.90 per ton, and 6- to 26-in. fittings, $95 per ton; from U. S. Cast Iron Pipe & Fdry. Co., 957 East Ferry St., 6- to 16-in. pipe at $48.50 per ton, 36 in. pipe $48 per ton, and special castings at $98 per ton. Noted Feb. 11.

O., Cincinnati—Director Pub. Serv., 1,253 tons c.i. pipe and 15 tons special castings for water distribution system in Duck Creek Rd., Burk and Bevis Aves., from U. S. Cast Iron Pipe Co., Addyston, $57,546. Engrs. est. $55,000.

CONTRACTS AWARDED

Mass., Wayland — Bd. Selectmen waterworks, to General Contg. Co., Bath, Me. Engrs. est. to exceed $15,000. Noted Jan. 28.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Ely Ave., Sunswick, 47th Sts., etc. also in 60th Ave., Dartmouth Sts., etc. 2nd Ward, to Norton & Rigney, 137th St., Richmond Hill, $6,666 and $4,944 respectively. Noted Feb. 25.

N. J., New Brunswick—City Comn., 7,000 lin.ft. 6- to 8-in. pipe, also fittings, to R. D. Wood Co., 400 Chestnut St., Phila., Pa., at $51 per ton and $0.065 per lb. respectively.

Md., Baltimore — Bd. Awards, c.i. pipe and fittings for Bureau Water Supply, to R. D. Wood & Co., 400 Chestnut St., Phila., Pa., $75,131. Noted Feb. 11.

Md., Baltimore—Mayor and City Council, electrical equipment for addition to Montebello filters, to H. E. Crook Co., 28 Light St., $32,671. Noted Feb. 25.

La., Morganza — Crude oil engine and pump, to Fairbanks-Morse Co., 608 Magazine St., New Orleans, $1,778; concrete machinery foundations, concrete reservoir, pumping station, pipe line, etc., to P. J. Montgomery, Kaplan, $4,610, 25,000 gal. tank on tower, to Chicago Bridge & Iron Co., 37 West Van Buren St., Chicago, Ill., $2,785; 1,000-1,200 ft. deep well, to Gray Artesian Well Co., Pensacola, Fla., at $3.50 per ft.; 2,680 ft. 4 in. c.i. pipe and 6,600 ft. 2 in. steel pipe, etc., to Dixie Mill & Supply Co., 901 Tchoupatoulas St., New Orleans, $3,091.

La., Shreveport — Kansas City Southern R.R., Kansas City, Mo., will build water pumping station, incl. approximately 9,000 lin.ft. pipe, etc., here, by day labor. $27,000. A. W. Reece, Kansas City, Mo., ch. engr.

Tenn., Knoxville—City Council, to J. M. Dunn & Son, Bway. and Depot Sts., waterworks improvements, Sects. A, B, C and D, $585,000; to Burford, Hall & Smith, Atlanta, Ga., Sect. G $126,007, Sect. H $35,416, Sect. I $4,337, Sect. J $13,650, Sect. K $3,411, Sect. L $4,885, Sect. M $5,049; to M. P. Baird & Co., Phila., Pa., Sect., Q $67,500; to Pittsburgh Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., Sect. R $3,388; to Ludlow Valve Mfg. Co., foot of Adams St., Troy, N. Y. and Michigan Valve Mfg. Co., Detroit, Mich., Sect. S, $25,405; to U. S. Cast Iron Pipe & Fdry. Co., Burlington, N. J., Sect. T, $67,388; to Simplex Valve & Meter Co., 722 Race St., Phila., Pa. Sect. U, $4,785; to Tennessee Armature & Motor Wks., 211 West Cumberland Ave., Sect. V, $3,675; to Warner Serv. Co., Knoxville, Sect. W, $5,175. Grand total $955,071. Noted Jan. 21.

O., Cincinnati—For 16- to 36-in. vertical and horizontal by-pass valves to water distribution system, to Michigan Valve & Fdry. Co., 3631 Parkinson St., Detroit, Mich., $12,235; 1,310 tons 6- to 36-in. c.i. pipe for mains in Central Parkway from 8th and Eggleston Sts. to Findlay St., to U. S. Cast Iron Pipe Co., Addyston, $67,211. Noted Feb. 18.

O., Cincinnati — Comrs. Hamilton Co., Water Supply Line 7, Dist. 1 (Silverton-Contr. 1), 3,400 ft. 16 in. c.i. pipe, etc., to Crumley, Jones & Crumley Co., 906 Main St., $26,206. Engrs. est. $24,000. Noted Jan. 21.

Wis., Racine — Bd. Water Comrs., City Hall, general construction filtration plant, to Peterson-Colwell Co., Inc., 646 Builders Exch., Minneapolis, Minn., $177,681; venturi meters, to Simplex Valve & Meter Co., 30 North Michigan Blvd., Chicago, Ill., $1,425; c.i. pipe, to Lynchburg Fdry. Co., 122 South Michigan Ave., Chicago, Ill., $9,884; wash water tank, to Grover Corp., 28 East Jackson Blvd., Chicago, Ill., $4,635; and wash water pumps, to Amer. Well Wks., 38 South Dearborn St., Chicago, Ill., $742. Grand total $194,367. Noted Feb. 11.

Wis., Wauwatosa—Bd. Pub. Wks., A. V. Brigham, secy., to Layne-Bowler Wisconsin Co., 425 East Water St., Milwaukee, boring artesian well 1,000 ft. to 1,700 ft. more or less in depth, 24 in. casing at $25 per ft., 18 in. $13, 12 in. $8, remaining depth $6 per ft., installing 24 in. casing $9 per ft., 18 in. $14, and 12 in. $7. Noted Feb. 4.

Mo., St. Louis—G. J. Dietz, supply comr., to U. S. Cast Iron Pipe & Fdry. Co., Bessemer, Ala., 1,260 ton 20 in. and 800 tons 36 in. pipe at $45.40 per ton f.o.b. St. Louis, total $93,524; and to Natl. Cast Iron Pipe Co., 2700 North 25th St., Birmingham, Ala., 30 tons 3 in. c.i. pipe $56.50, 50 tons 4 in. $50, 576 tons 6 in. $46, 20 tons 8 in. $46, and 440 tons 12 in. $46, total $56,390. Noted Feb. 18.

Mo., St. Louis—For 20 unit 80 m.g.d. capacity filtration plant, to McCormack Combs Constr. Co., 318 North 8th St., $715,903. Noted Dec. 24.

Tex., Port Arthur — City Comrs., City Hall, pumps for purification plant, to Dayton-Dowd Co., Quincy, Ill.; motors, to General Electric Co., River Rd., Schenectady, N. Y.; filters, to Roberts Filter Mfg. Co., Darby, Pa. Engrs. total $80,000. Noted Dec. 31.

Colo., Ft. Collins — E. A. Lawber, city engr. and W. Keirsted, consult. engr., 11,656 ft. trench and water mains, to Lock Joint Pipe Co., 1716 California St., Denver, $83,678.

Ont., Belle River—Village, general contract excavation and laying 1,650 ft. 16 in. steel mains in various streets, to S. S. Carnahan, Amherstburg; pipe and flexible joints, to J. Ingles Co., Strachan Ave., Toronto. Engrs. est. $15,000. Noted Aug. 27.

Sewers

PROPOSED WORK

Md., Baltimore—Pub. Impvt. Comn. soon takes bids Gwynns Run Diversion Drain, 4,800 lin.ft. 12½ ft. x 11½ ft., concrete and brick, horseshoe shaped. $7,500,000. M. J. Ruark, City Hall Annex, sewerage engr.

D. C., Wash.—See "Waterworks."

Miss., Biloxi—See "Unclassified."

O., Akron—W. F. Peters, dir. Pub. Wks., soon takes bids 3,755 ft. 8- to 30-in. vitr. sewers in Riverside Dr. et al. $27,300, and 6,600 ft. in Glenwood Ave. et al. $35,900; 4,700 ft. 8- to 36-in. in Diagonal Rd. et al. $38,800; also 1,700 ft. 24 in. in Hawkins Ave. 5, $28,900. J. E. Root, Municipal Bldg., engr.

O., Columbus—See "Waterworks."

O., Hamilton—Making plans 2½ mi. 36 in. storm sewer in Ross Ave. from Lawn Ave. to Miami River, known as Ross Ave. Relief Sewerage System. $85,000. W. Willard, City Hall, engr.

Mich., Flint — Plans storm sewers in various streets, $128,850; also sanitary and intercepting sewers, $136,220. H. C. McClure, engr.

Wis., Madison—W. Winckler, city clk., making plans 6- to 16-in. sewer in Linden Hill Sewer Dist. $25,000. Engineer not selected.

Wis., Whitefish Bay — W. Volkmann, village clk., made plans 5 mi. sanitary and 1.5 mi. storm sewers in various streets. T. F. Buckley, village engr.

Ia., Hastings — Plans election $140,000 bonds, sewerage system. Engineer not selected.

Ia., Oelwein — City Clerk takes bids about Mar. 15, 90 x 170 ft., trickle beds for sewage disposal plant, $55,000-$60,000. J. A. Dunkle, Webster City, engr. Noted Dec. 31.

Mo., Excelsior Springs — Election in spring $35,000 bonds, sewage disposal plant, etc. Noted Sept. 10.

Ark., Conway—Making preliminary plans disposal plant and sewer extensions in annex to Sewer Dist. 1. Parkes Eng. Co., Citizens Bank Bldg., Pine Bluff, engrs.

Calif., Gilroy—Made plans 11,100 ft. 8- to 12-in. vitr. sewer, etc., in various streets. C. E. Sloan, Santa Fe Bldg., San Francisco, engr.

Calif., Palo Alto—Made plans improving Cowper St., Santa Ynez, California and Nevada Aves., etc., 3,420 lin.ft. vitr. sanitary sewer, 1,780 lin.ft. 12 in. concrete storm drains, 2,695 ft. 4 and 6 in. c.i. water pipe, etc. J. F. Byxbee, Jr., city engr.

Calif., San Fernando—Made plans sewers in Sanitary Dist. 1, 56,151 lin. ft. 8- to 18-in. vitr. or cement pipe, 120 ft. 8- to 16-in. c.i. pipe, etc., to exceed $80,000; also sewers in Sanitary Sewer Dist. 2, $60,000 or more. Black & Veatch, Ferguson Bldg., Los Angeles, engrs. Noted Feb. 25.

Calif., Whittier — See "Streets and Roads."

Ont., New Liskeard—Town plans 2 sewage pumps, electrically operated in connection with sewage disposal works. $5,000. J. I. Dixon, town clk.

Ont., Startford — Plans North Shore Trunk Sewer, 3,500 ft. brick or concrete pipe. $40,000. A. B. Manson, City Hall, engr.

Ont., Toronto—East York Twp. making plans 1,260 ft. 12- to 18-in. vitr. tile sewers in Donlands Ave., $15,112; also 1,355 ft. 12 in. sewer in Doncaster Ave., $13,423. G. R. Jack, 443 Sammon Ave., Toronto, engr.

B. C., Burnaby—Making plans lateral sewers in various locations. $80,000. E. Smith, Edmonds, Burnaby, engrs.

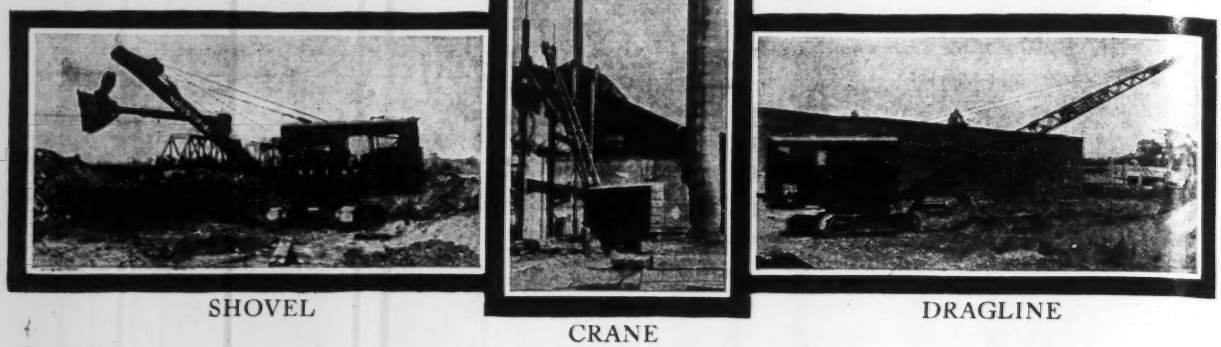
BIDS DESIRED

N. Y., Buffalo—Mar. 12, by Commissioner Pub. Wks., 425 ft., 8½ x 8½ ft. rein.-con. overflow sewer on piles, in Bailey Ave. across old Buffalo River. $25,000. C. E. P. Babcock, Municipal Bldg., engr. Noted Feb. 25.

Pa., Phila.—Mar. 10, by Dept. Pub. Wks., Bureau of Engineering, Schedule A, branch sewers in Carpenter Lane, Godfrey Ave., Tabor Rd., Aldine, Almond, Bridge, Cottage, Crispin, Ditman, 4th, Gillespie, Hegerman, Hilton, Horrocks, Howard, Keystone, Ryan, Salmon, Torresdale, Tudor, 21st, 34th, Victoria and Westview Sts.; Schedule B, main

See proposal advertisements on page 151, Advertising Section.

INDUSTRIAL



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A FIFTY-MAN-POWER

MASTERPIECE

THIS INDUSTRIAL crawling tractor crane, shovel and dragline is producing 50-man-power results in handling the heavy loads of industry. It is cutting deep into the high costs of manual material-handling and recovering a buried treasure of non-productive dollars. The type DC is a masterpiece of design and construction. Its outstanding superiority is guaranteed by America's pioneer crane builders. Over fifty years of untarnished business integrity and highly specialized skill and experience form its background.

This INDUSTRIAL has a greater field of usefulness in industry than any other material-handling equipment on the market today. With but one basic machine, it is a full-fledged locomotive crane, power shovel and dragline and vastly superior to any other equipment designed specifically for only one of these three services. The source of power is optional—it may be steam with a high-pressure boiler, gasoline with a powerful engine, electric from plug-in connection, full Diesel or semi-Diesel.

As a crane with clamshell bucket, lifting magnet, hook and block, wood grapple or pile driver leaders, this DC will supplant manual effort at tremendous savings. As a power shovel or dragline, it has no equal.

These three machines are offered for but little more than the price of any one of other make. Think of the vast saving in capital investment!

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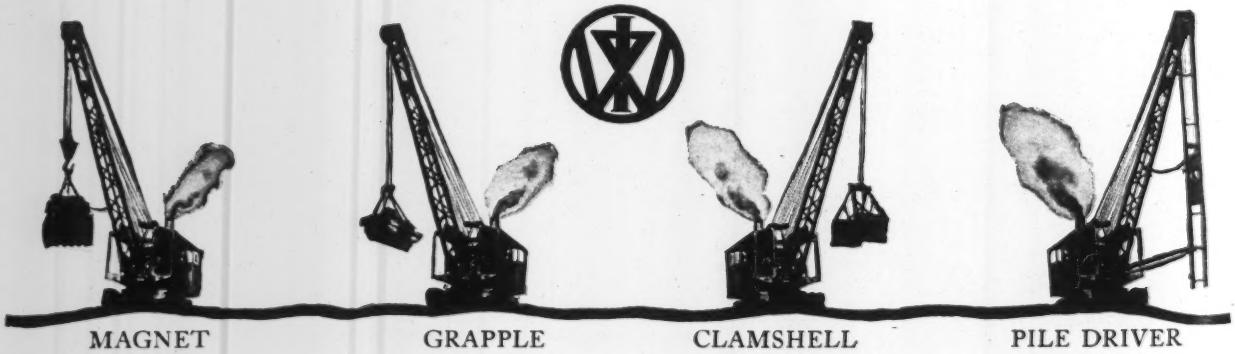


MAGNET GRAPPLE CLAMSHELL PILE DRIVER

Sewers (Continued)

sewers in Tacony Creek Park between Tacony Creek and Rising Sun Ave. and Rising Sun Ave. between Chew and Clarkson Aves., etc. G. H. Biles, dir.

D. C., Wash.—Mar. 12, at office Washington Suburban Sanitary Comn., Evans Bldg., New York Ave. N. W., c.i. manhole frames and covers, listed in Contr. 55. R. B. Morse, Hyattsville, Md., ch. engr.; adv. E. N.-R. Mar. 4.

N. C., Charlotte—Mar. 10, by Bd. City Comrs., sewers in various streets. E. Read, city clk.; adv. E. N.-R. Mar. 4.

Tenn., Johnson City — See "Streets and Roads."

Fla., White Springs—See "Waterworks."

O., Kent—Mar. 10, by Comrs. Portage Co. (Ravenna) sanitary sewer in Longemere St. west of here. $25,000.

Mich., Pontiac—Mar. 12, at office H. A. Maurer, city clk., City Hall, constructing N. W. Trunk Sanitary Sewer, etc., Contr. 3. J. R. Pollock, city engr.; adv. E. N.-R. Mar. 5.

Ill., Barrington — Mar. 16, by Village, Village Hall, disposal station, 12- to 60-in. vitr. tile and concrete sewers in various streets. $300,000. Suhr, Berryman & Peterson, 105 North Clark St., Chicago, engrs.

Ill., Chicago—Mar. 18, by E. Wallace, clk. Sanitary Dist. of Chicago 910 South Michigan Ave., Ninth Branch Sewage Pumping Station, Div. "AA," 3 synchronous motor driven centrifugal pumping units, each 75 cu.ft. per second capacity and 5 with 300 cu.ft. per second capacity and appurtenances complete f.o.b. as near station as possible; also North Side Sewage Treatment Works, Div. "S" Alternate A, four 500 hp. water tube boilers, complete with automatic traveling grate stokers, etc., Alternate B, four 500 hp. water tube boilers complete with mechanical oil burners, etc. at North Side Sewage Treatment Wks.

Wis., Cudahy—Mar. 6, by J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., Milwaukee, Sect. 4 Cudahy Sewer, 4,910 ft. 36 in. concrete pipe, 7,315 ft. special section concrete sewer, 665 vertical ft. standard and 270 vertical ft. drop manholes, etc. T. C. Hatton, c/o owner, engr.

Wis., Milwaukee—Mar. 6, by Dept. Pub. Wks., R. E. Stoelting, comr., storm sewers in 26th St., 1,333 ft. 7 ft. 6 in. and 1,345 ft. 7 ft. monolithic sewer tunnel, 3 manholes approximately 121 ft. deep, 1 standard gauging chamber, etc. J. Schwada, City Hall, engr.

Ia., Audubon—Taking bids disposal plant, incl. filter and Imhoff tank, 12,000 ft. 18 in. outlet, etc. $60,000. W. E. Buell & Co., 206 Davidson Bldg., Sioux City, engr. Noted Feb. 4.

Minn., St. Paul—Mar. 9, by A. E. Eggert, city purch. agt., approximately 6,000 ft. 12- to 30-in. and 813 ft. 48 in. sewer, etc., for Maryland-Como Sewerage System, Contr. B. $50,000. G. M. Shepard, city engr.

S. D., Sioux Falls — Mar. 25, by City Commissioners, sewage treatment plant and appurtenances for Divs. A, B, C, D and E. A. A. Chenoweth, 226 Paulton Blk., consult. engr.; adv. E. N.-R. Mar. 4.

Mo., Kansas City—Mar. 24, by Bd. Pub. Wks., City Hall, Accessory Sewers 1 and 2 to Blue River Sewer, etc. Black & Veatch and E. M. Stayton, Mutual Bldg., consult. engrs.; adv. E. N.-R. Mar. 4. Noted Feb. 4.

BIDS RECEIVED

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, Feb. 24, from A. Mattia, 310 North 65th St., branch sewers in Atlantic St. between Gaul and Belgrade Sts. $15,718, Erdrick St. between Napfle and Hartel Sts. $24,467, Pickwick St. between Salmon and Thompson Sts. $3,846; from Vattieri & Pontarelli, 523 Rising Sun Lane, Gaul St. between Tioga and Venango Sts. $15,954, Hartel and Meriden Sts. between Franklin and Erdrick Sts. $24,559, and Lycoming St. between M and N Sts. $26,259; from McIntyre Constr. Co., 6811 North Franklin St., Miller St. between Atlantic and Venango Sts. $16,517, Cottman St. between Rowland and Sackett Sts. $12,014, Lansing St. between Franklin and Walker Sts. $26,128, and 58th St. between Gibson and Elmwood Sts. $4,491; from J. Moss, 1652 Wakeling St., Cheltenham St. between Frontence and Loretto Sts. $4,773; from A. Bonitatibus, 300 West Mt. Pleasant Ave., Edgewood St. between Gibson and Eastwick Sts., $5,666; from A. Parna & Son, 752 South 10th St., 45th St. between Sansom and Walnut Sts. $3,170, and Theodore St. between 69th and 70th Sts., $5,830; from A. Di Sandro & Son, 3906 North 5th St., Markland St. between Hunting Park and Lycoming St., $8,999; from Pastore & Co., 5903 Woodland Ave., Millick St. between Gibson and Eastwick Sts., $6,228; from F. Buckins, 4050 Kensington Ave., N St. between Luzerne St. and Hunting Park, $24,895; from A. Frunzi, 536 High St., Silverwood St. between Fountain and Delarm Sts., $14,064; from De Mayo Bros., 817 South Hutchins St., Spangler St. between Allegheny and Clearfield Sts., $9,069; from P. Pinciatti, 4103 Roosevelt Blvd., Vankirk St. between Loretto and Oxford Sts., $22,083; from O'Neill Co., 127 East Mermaid St., main sewer in Sanger St., $27,814; from C. G. Centrone, Bailey Bldg., Aramingo Ave., $39,989; and from Acchione & Caruso Paving Co., sewers and pumping station equipment for south of Pattison Ave. and west of Broad St. $66,262, also sewers and pumping station south of Packer and west of Broad Sts. $37,305. Noted Feb. 18.

O., Cleveland — Bd. Comrs. Cuyahoga Co. sewer in Snow Rd., from Gantose Constr. Co., Columbia Bldg., $49,739.

Wis., Milwaukee — J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., Feb. 13, two 2,500 g.p.m. motor driven float controlled centrifugal pumps, for Mud Creek low level sewage booster station, Villard Ave., from Amer. Well Wks., 112 North Bway., Aurora, Ill., $8,570. Noted Feb. 4.

Calif., Glendale—City Council, Feb. 18, from A. G. Giebisch, Virgil Walk, Long Beach, sewer in Sewer Dist. 2, 8,281 ft. 10 in. vitr. pipe $1.95 per ft., 80 ft. 10 in. pipe encased $2.60, 58,840 ft. 8 in. vitr. pipe $1.60, 46 ft. 8 in. encased $2.10, etc. total approximately $165,605. Noted Jan. 21.

Calif., Los Angeles—For 10,024 ft. 6 in. rein.-con. and 10,125 ft. 8 in. vitr. clay sewer in June St., from M. Chutuk, 1506 Pleasant Ave., $23,237. Engrs. est. $25,535.

Calif., Oakland—From W. J. Tobin, 527 Santa Ray Ave., sewer in Webster St. between 12th and 20th Sts., 126 lin.ft. 24 in. vitr. pipe $4.40, 2,960 lin.ft. 18 in. $3.40, 799 lin.ft. 15 in. $2.74, 573 lin.ft. 12 in. $2.17, 628 lin.ft. 10 in. $1.73, 207 lin.ft. 10 in. vitr. pipe conduit $1.73, etc. Noted Feb. 4.

Calif., Richmond—A. C. Faris, city clk., 23,570 ft. 6- to 10-in. vitr. sewer, etc., in Costa, Rheem Sts., etc., and 30,159 ft. 6- to 10-in. vitr. sewer, etc., portions of Howard North Sts., etc., from L. L. Page, 728 Bissel Ave., $15,667 and $19,398 respectively. Noted Feb. 18.

CONTRACTS AWARDED

Ill., Niles Center—Village Clerk, Howard Ave. Sewer, vitr. tile and concrete pipe, etc., to N. Santucci, Oak Park, $701,953.

Ill., East St. Louis—See "Streets and Roads."

Wis., Wauwatosa—Bd. Pub. Wks., A. V. Brigham, secy., to A. H. Koch, 2917 Grand Ave., Milwaukee, 8 in. vitr. sewers in Albert St. $758, Aberdeen Court $1,064, and Pleasant St. $341, to Ribbens Bros., Mayville, Richmond Court $924, and Rogers Ave. $676; to Mierswa Constr. Co., 1619 Oregon St., Oshkosh, East North Ave. $325; to G. E. Zimmermann, 3402 Grand Ave., Milwaukee, East North Ave. $21,186. Grand total $25,274. Noted Feb. 4.

Wis., Milwaukee — Dept. Pub. Wks., monolithic concrete storm sewers in Sect. 4, to Wenzel & Henoch Constr. Co., 498 27th St., $204,582; Sect. 5, to J. Brogan & Sons, 211 Grand Ave., $102,786; Sect. 6, to M. Synovitz, 944 2nd Ave., $138,217; Lake St., to Mierswa Constr. Co., 1619 Oregon St., Oshkosh, $6,438; also St. Paul and 22nd Sts., to P. & L. Co., Edgewater Ave., $11,844 and $1,241 respectively. Grand total $465,008. Noted Feb. 25.

Ark., Little Rock — See "Streets and Roads."

Calif., Los Angeles—Constructing Sect. 2 Arroyo de la Sacatella storm drainage system, to W. F. Peck, Hollywood Security Bldg., $764,765. Noted Feb. 18.

Calif., Los Angeles—Sewer in Milton Ave. between Melrose and 3rd Sts., to M. J. Simonovich, 727 Alpine St., $74,061, engrs. est. $75,621; also Burnside Ave., to J. Chutuk, 343 Wilcox Bldg., $26,681, engrs. est. $27,124. Noted Feb. 25.

Waste Disposal

PROPOSED WORK

Ont., Walkerville—Bd. Pub. Wks., A. J. Stephens, chn., plans concrete and brick garbage incinerator with furnaces, etc. $25,000-$40,000. Noted Jan. 28 under "Streets and Roads."

BIDS DESIRED

Calif., Long Beach—C. D. Windham, city engr., taking bids incinerator. $75,000 or more. R. D. Van Alstine, city engr.

Bridges

PROPOSED WORK

North Carolina—State Hy. Dept., Raleigh, plans rein.-con. bridges and culverts on Project 398, Robeson Co. $32,000, Project 591, Rockingham Co. $45,000, and Project 6690, Rowan Co. $42,000. C. M. Upham, Raleigh, engr.

North Carolina — State Hy. Dept., Raleigh, rejected bids Feb. 8, rein.-con. bridge on Project 303, Bladen Co. $27,700. Will readvertise. Noted Feb. 11.

Ga., Wrightsville — See "Streets and Roads."

Miss., Biloxi—See "Unclassified."

Mich., Flint — Plans bridge over Flint River connecting Harrison and Clifford Sts. with 2nd Ave. and Payne St. $125,000. H. C. McClure, city engr.

Ill., Mount Carmel — State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, plans rein.-con. bridge across Wabash River, Wabash Co., here. F. T. Sheets, ch. engr.

Ia., Toledo—See "Streets and Roads."

Minnesota and Wisconsin—R. C. Buck, Inc., engrs., 15-16 U. S. Natl. Bank Bldg., Superior, Wis., making plans and take bids about Apr. 1, 3,600 ft. steel bascule bridge, incl. 2 spans opening upward at center, 30 ft. approach at each end, etc., over St. Louis River, connecting Duluth, Minn., and Superior, Wis., for Arrowhead Bridge Co., 522 Lyceum Bldg., Duluth, Minn. $500,000.

Minn., Duluth — Duluth, Missabe & Northern R.R., W. H. Hoyt, Duluth, ch. engr. and Duluth & Northern Pacific R.R. Co., St. Paul, H. E. Stevens, ch. engr., plan 4 concrete bridges on Beck's Road Blvd. connection. $45,000.

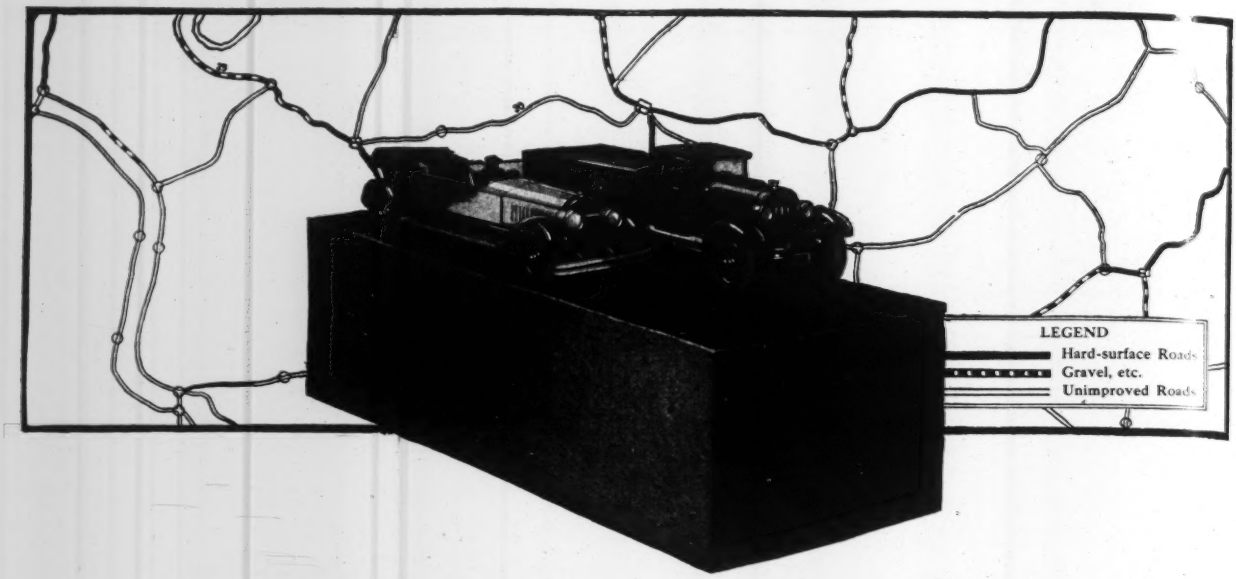
Missouri — State Hy. Dept., Jefferson City, making plans three 80 ft. steel truss spans, etc., on road from Lamar west, Barton Co.; two 10 ft. and two 12 ft. rein.-con. slab spans, etc., over stream, one 20 ft. rein.-con. slab span, etc., over south fork Deer Creek, one 30 ft. rein.-con. deck girder span, etc., over north fork Deer Creek, one 40 ft. rein.-con. deck girder span, etc., over Mackafish Branch, also one 60 ft. steel truss and two 30 ft. rein.-con. deck girder spans, etc., over Marmon Fork, all foregoing in Bates Co.; two 12 ft. and one 24 ft. rein.-con. slab span, etc., over McKinney Branch, one 20 ft. rein.-con. slab span, etc., over Smith Branch, three 20 ft. rein.-con. slab and one 45 ft. rein.-con. deck girder spans, etc., over Richland Creek, all in Callaway Co.; three 24 ft. rein.-con. slab spans, etc., over Green Valley, four 40 ft. rein.-con. and one 140 ft. steel truss spans, etc., over James River, Christian Co.; two 80 ft. steel truss and two 30 ft. rein.-con. deck girder spans, etc., over Petite Saline, Cooper Co.; two 45 ft. rein.-con. deck girder spans, etc., over Wild Cat Creek, Douglas Co.; three 100 ft. rein.-con. open spandrel spans, etc., over Sac River, Greene Co.; two 10 ft. rein.-con. slab, etc., over Kaolin Branch, Iron Co.; four 12 ft. rein.-con. slab, one 40 ft. and one 45 ft. rein.-con. deck girder spans, etc., over Heart Grove Creek, and two 12 ft., rein.-con. slab spans, etc., over Mouse Creek, all foregoing in Jackson Co.; one 80 ft. steel truss and two 35 ft. I-beam spans, etc., over Blackwater River, also one 80 ft. steel truss and four 35 ft. I-beam spans, etc., over Blackwater D. D., all in Johnson Co.; one 40 ft. rein.-con. deck girder and two 20 ft. rein.-con. slab spans, etc., over stream, Lewis Co.; four 22 ft. rein.-con. slab spans, etc., over Frederick Creek, Oregon Co.; two 12 ft. rein.-con. slab spans, etc., on Sta. 459 plus 12, two 30 ft. rein.-con. deck girder spans, etc., on Sta. 380 plus 90, and one 30 ft. rein.-con. deck girder span on Sta. 521 plus 27, all in Polk Co.; three 30 ft. rein.-con. deck girder spans, etc., over Beeler Creek, Texas Co.; and three 24 ft. rein.-con. slab spans, etc., over Willow Branch, Vernon Co. B. H. Piepmeier, ch. engr.

Mo., Carthage—City and State Hy. Dept., Jefferson City, making preliminary plans rein.-con. viaduct to carry State Highway over railroad tracks. $225,000. City, state and railroads appropriate toward cost. This corrects report in Feb. 18 issue under "Joplin, Mo."

Mo., Springfield — Plans election soon, $390,000 bonds, rein.-con. viaduct, Grant Ave.; $310,000 bonds for Robberson St. viaduct, and $200,000 bonds Benton St. viaduct.

Ark., Cody (mail Hulbert) — Arkansas City and State Hy. Dept., Little Rock, making plans 167 ft. vertical lift span bridge, Crittenden Co., near here. To

See proposal advertisements on page 151, Advertising Section.



The only reason that

there are not more miles of improved roads at your service, is the brutally excessive annual cost of maintaining and repairing inferior pavements already laid.

Keeping old roads open is the leak through which your tax-dollars are pouring.

Those communities in which vitrified brick pavements were laid 20, 25, 30 and 35 years ago are the fortunate ones. Many of those streets and roads have not yet cost the tax-payers a dollar in repairs. In numbers of instances those veteran brick pavements have outlasted two and three successive nearby pavements built of other materials.

Don't let this upkeep and maintenance leak continue into the future. Advocate to your neighbors, friends and business associates *vitrified brick*—the pavement that outlasts the bonds.

For facts and figures to support your arguments, let us send you official data and information collected from public records.

NATIONAL PAVING BRICK MANUFACTURERS ASS'N
Engineers Building Cleveland, Ohio

Advocate VITRIFIED **Brick**

The Pavement That OUTLASTS The Bonds

Bridge (Continued)
exceed $25,000. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs.

Tex., Abilene—See "Streets and Roads."

Tex., Dickens—See "Streets and Roads."

Tex., Groesbeck — See "Streets and Roads."

Tex., Quanah—See "Streets and Roads."

Okla., Lovedale (Buffalo P. O.) — State Hy. Dept., Oklahoma City, making preliminary plans 2 span 144 ft. steel truss bridge on concrete piers, Blaine Co., here. $31,000. J. M. Page, highway engr.

BIDS DESIRED

N. Y., Poughkeepsie — Mar. 30 by F. S. Greene, supt. Pub. Wks., 55 Lancaster St., Albany, 2 main piers Mid Hudson Bridge, Contr. 3, here; $2,145,535.; adv. E. N.-R. Mar. 4.

Pa., Waynesburg — Mar. 6, by Comrs. Greene Co., Court House, double 60 ft. span concrete bridge over South Ten Mile Creek, State Highway Route 268, about 3 mi. east of here; also temporary bridge and approaches for accommodating traveling public while new bridge is being built in Franklin Twp. T. B. Dinsmore, Waynesburg, co. engr.

Louisiana—Mar. 30, by State Hy. Comn., Baton Rouge, **(S. A. P. means State Aid Project)**, 69 ft. creosoted timber bridge over Little Bayou Block, Houma-Central Highway, S. A. P. 530-A, and 59 ft. bridge over Bayou Canne, Houma-Thibadoux Highway, S. A. P. 531-A, both in Terrebonne Parish; also 61 ft. bridge over drainage canal on Raceland-Lockport Highway, S. A. P. 344-C, Lafourche Parish. W. B. Roberts, Reymond Bldg., highway engr.

La., Jones—Apr. 6, by Police Jury Morehouse Parish, (Bastrop) 526 ft. creosoted timber and steel bridge over Bayou Bartholomew, at Zachary Ferry, Project 77, here. J. W. Brodnax, pres.

Ore., Kernville—State Hy. Dept., Salem, taking bids bridge over Siletz River, Lincoln Co., here. $85,000. Former bids rejected. R. Klein, Salem, engr. Noted Jan. 21.

BIDS RECEIVED

Pennsylvania—State Hy. Dept., Harrisburg, Feb. 19, rein.-con. and steel bridge on South Creek-Victory Twp. Rd., Route 233, Venango Co., from A. C. Bailey, Phillipsburgh, $92,107. Noted Jan. 24, under "Streets and Roads."

La., Hammond—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Ohio — Dept. Highways & Pub. Wks., Columbus, improving bridge by extending abutments and building slab rail Sect. "H" Natl. Rd. Harmony Twp., Clark Co., from Standard Eng. Co., 2463 B'way., Toledo, $21,181; building 100 ft. span bridge plate girder encased in concrete over Buck Creek, Sect. "N" same road, from Reedy Bros., Warren $46,607, and 86 ft. span concrete arch bridge Sect. "C" Kenton-Wapakoneta Rd., Hardin Co., from Anstine & Carey, Kenton, $16,858; removing present steel bridge and constructing concrete culvert Sect. "T" Muskingum Rd., Washington Co., from H. Pattin, Beverly, $11,232.

Michigan — State Hy. Dept. at office comrs. Shiawassee Co., Corunna, superstructure Bridge File 761,306, two 65 ft. spans, from J. P. Walters, Owasso, $26,746; steel, from Amer. Bridge Co., 2273 Beecher St., Detroit, $6,555. Noted Feb. 4.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, 150 ft. steel superstructure on Route 1, Sect. 2-C, Iroquois Co., 160,030 lb. reinforcing, etc., from Vincennes Bridge Co., Vincennes, Ind., $22,480; three 35 ft. span concrete girder bridge over railroad tracks, Route 1, Sect. 38-V, Johnson Co., from W. H. Shons, 11 South Liberty St., Freeport, $7,986; one 60 ft. span steel superstructure and repairing abutments, on Route 7, Sect. 8-D, Bureau Co., 42,600 lb. reinforcing, etc., from L. A. Plum, Wapella, Ia., $2,834; substructure for one 85 ft. span bridge on Route 29, Sect. V-1, Bureau Co., from Hurtgen & Sayer, St. Louis, Mo., $14,696; and one 85 ft. steel superstructure on Route 29, Sect. V-2, Bureau Co., 100,000 lb. reinforcing, etc., from Schmidt Constr. Co., Peoria, $7,912. Noted Feb. 11.

Illinois—See "Streets and Roads."

Oklahoma—State Hy. Dept., Oklahoma City, Feb. 2, 3 span rein.-con. trestle bridge at Turner Falls, Murray Co., from W. K. Davis, Madill, $70,019. Engrs. est. $90,000. Noted Jan. 21.

CONTRACTS AWARDED

Massachusetts—See "Railways."

N. J., Paterson — Passaic Co., Moffit Bridge, to Parker-Graham Co., 191 Railroad Ave., Paterson, $208,370.

South Carolina—See "Streets and Roads."

Georgia — State Hy. Dept., East Point, bridge over Altamaha River, also 2 approaches, all on Lyons-Baxley Rd., Federal ~~Aid Project 127, Tuombs and~~ Appling Counties, to Hardaway Constr. Co., Columbus Bldg., Columbus, $195,264.

Alabama—State Hy. Dept., Montgomery, **(F. A. P. means Federal Aid Project, S. A. P. means State Aid Project and e. e. engrs. est.)**, 425 ft. steel superstructure over Coosa River, S. A. P. 41, Cherokee Co., to Vincennes Bridge Co., Vincennes, Ind., $54,631, e. .e $61,567; 431 ft. bridge on Town Creek-Federal Aid Project 38 Rd., S. A. P. 101, Lawrence Co., to G. A. Thompson, Macon, Ga., $31,892, e. e. $32,532; 1,800 ft. bridge on Federal Aid Project 150, Tuscaloosa Co., to Peterson & Ernhart, Montgomery, $77,928, e. e. $101,209; 485 ft. bridge on Seale-Girard Rd., S. A. P. 50-B, Russell Co., to McCoy & Garrett, Lafayette, $31,193, e. e. $35,000. Grand total $195,644. Noted Feb. 25.

O., Dayton — G. F. Baker, dir. Pub. Serv., two 95 ft. span half through steel girder bridge encased in concrete, 24 ft. roadway, two 7 ft. sidewalks over Wolf Creek, at Williams St., to E. F. Smith, Summit St., $77,950. Noted Feb. 4.

Illinois—See "Streets and Roads."

Ia., Denison—Crawford Co., 140 ft. high truss bridge, 20 ft. with 40 ft. I-beam approach spans, etc., on Federal Aid Project 232-E, to Snyder & Johnson, Humboldt, $25,900. Noted Feb. 18.

Texas and Mexico—Eagle Pass & Piedras Negras Co., 1st Natl. Bank Bldg., Eagle Pass, twenty 25 ft. I-beam trestle, three 150 ft. and two 72 ft. riveted steel truss span bridge across Rio Grande River, between Eagle Pass, Tex., and Piedras Negras, Mexico, to Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, Mo. $202,003.

Okla., Wetumka — Hughes Co., steel over Canadian River, 3 mi. from here, to Yeocum, Gaines & Mackey, Oklahoma City, $62,000; and steel bridge over Wewoka Creek, 4 mi. from here, to H. Cowens, Wetumka, $56,000.

Washington—State Hy. Dept., Olympia, replacing existing temporary structures with one 126 ft. steel, two 82 ft. and one 55 ft. concrete I-beam spans, etc., between Chehalis and Cowlitz, Chehalis, & Cascade R.R. tracks, on State Rd. 1, Lewis Co., to D. Nygren, 3216 Government Way, Seattle, $53,545. Noted Jan. 28.

Calif., Oakland — Alameda Co. reconstructing steel bridge over Estuary, on Webster St., here, to J. H. Tillman, 310 East Cabrillo St., Santa Barbara, $149,000. Noted Feb. 25.

Dams

PROPOSED WORK

Nev., Lovelock — Lovelock Water Users Assn., plans election $1,200,000 bonds, Oreana Dam 1 on Humboldt River earth fill type, 1,585 ft. long. 100 ft. high to irrigate more than 30,000 acres. King & Malone, Cheney Bldg., Reno, engrs. Noted Nov. 12.

Tex., La Grange — See "Excavation, Drainage, Irrigation, Levees, Dam, River and Harbor."

Railways

PROPOSED WORK

Illinois—Pennsylvania R.R. Co., Broad St. Sta., Phila., Pa., W. G. Coughlin, ch. engr., plans 10.3 mi. double track from Altamont to Brownstown, 12.7 mi. from Pierron to St. Jacobs and 22 mi. from Casey to Montrose, here. $4,000,000.

Nebraska—Chicago, Burlington & Quincy R.R. Co., A. W. Newton, ch. engr., 547 West Jackson Blvd., Chicago, Ill., making plans improving tracks, and roadbed, also enlarging roundhouse, in Omaha. $1,250,000.

Ontario—Windsor Hydro-Electric Railways, Windsor, plan double tracking Ouellette Ave. and Wyandotte St., etc., in Windsor. $1,000,000. A. Fairley, c/o owner, engr. Noted Dec. 17.

Ontario—Canadian Natl. R.R. Co., C. S. Gzowski, ch. engr., 231 St. James St., Montreal, Que., plans relaying approximately 50 mi. 100 or 110 lb. rails between Chatham and Windsor. $750,000.

Ontario—Hydro-Electric Power Comn. of Ontario, 190 University Ave., Toronto, plans constructing larger loops in downtown district of Windsor; also purchase 12 new electric street cars. $250,000. F. A. Gaby, c/o owner, engr.

CONTRACTS AWARDED

Massachusetts — Boston & Albany R.R., F. B. Freeman, ch. engr. North Sta., Boston, 4 mi. main track incl. 7 or 8 culverts, and 1 bridge, from Warren to West Warren, to New England Constr. Co., 274 Main St., Springfield. Engrs. est. $250,000.

Excavation, Drainage, Irrigation, Levees River and Harbor

PROPOSED WORK

Illinois—Dept. Purchases & Construction, State House, Springfield, rejected bids Jan. 5, Brandon Road Pool, incl. 202,000 cu.yd. excav., 150,000 yd. concrete and 2,000,000 lb. steel and iron, at Joliet. Work may be readvertised. Noted Jan. 14.

Wis., Milwaukee—See "Buildings—Commercial."

Tex., LaGrange — Colorado River Impvt. Assn., A. J. Ellers, pres. plans forming irrigation district embracing portions of Bastrop, Fayette, Colorado, and Wharton Counties, and constructing dam across Colorado River. $5,000,000-$10,000,000. Engineer selected soon.

Nev., Lovelock—See "Dams."

Calif., Whittier—See "Streets and Roads."

BIDS DESIRED

New Jersey—Mar. 16, by Morris Canal & Banking Co., Dover, reconstructing and dismantling Sects. 58-85 Morris Canal from Port Morris to Boonton, Morris Co. H. B. Kummel, State Office Bldg., Trenton, genl. engr.

N. J., Newark—Mar. 10, by Dept. Pub. Affairs, City Hall, T. L. Raymond, dir., 500,000 cu.yd. dredging and 30,000 cu.yd. rock removal, in City Channel, Port Newark Terminal; adv. E. N.-R. Mar. 4.

La., Hammond — Mar. 25, by Comrs. Tangipahoa D. D. 1, H. Carrol, secy., dredging 69 mi. canals and laterals, incl. 2,600,000 cu.yd. excav.; also 3 concrete and 33 timber bridges. E. G. Frieler, Hammond, engr.

La., Shreveport—Mar. 26, by State Bd. Engineers, New Courthouse, New Orleans, widening and deepening 15 mi. Kelly Bayou from Arkansas state line to Black Bayou; also for bank protection at White Hall plantation, for Caddo Levee Dist. $70,000.

Ind., Peru—Apr. 5, by Bd. Comrs. Peru Flood Control Dist., Cole Blk., concrete wall with sluiceways, gates, etc. L. E. Roberts, Old Post Office Bldg., ch. engr.; adv. E. N.-R. Mar. 4.

Wis., Milwaukee—Van Ryn & De Gelleke, archts., 114 Grand Ave., taking bids excavating for 2 story and basement, 60 x 110 ft., 65 x 250 ft., and 66 x 83 ft., brick and tile school, plain foundation, Hartford Ave., for Milwaukee University School, 560 Bway. $400,000.

CONTRACTS AWARDED

New Jersey — Hudson Co. (Jersey City) Mosquito Extermination Comn., Trust Co. of New Jersey Bldg., Bergen and Sip Aves., Jersey City, 75,000 ft. (more or less) drainage ditches, and clearing 150,000 ft. (more or less) old drainage ditches, on salt marsh meadows, Hudson Co., etc., to J. D. Manahan, 921 Bergen Ave., Jersey City.

Fla., St. Augustine — Bd. Trustees Reclamation of Marsh or Submerged Lands, 10,000 ft. rein.-con. bulkhead, to P. T. Cox Contg. Co., 154 Nassau St., New York City, N. Y., $250,000. Noted Jan. 28.

Fla., Tampa — Council, dredging deep water channel, to R. A. Perry, Tampa, $799,990.

Ala., Mobile — Mobile Bay Bridge Co., Meaher Bldg., dredging, fills and riprap on Mobile-Baldwin Co. bridge, to J. Jacobson, Galveston, Tex., $403,500. Engrs. est. $410,000. Noted Jan. 21.

Streets and Roads

PROPOSED WORK

Conn., Hartford — Plans widening, etc., Windsor Ave., from Capen to Main Sts., $150,000; also improving 8 to 10 mi. New Britain Ave. from Connecticut Blvd., Elm, Holcomb, Hudson, State and Franklin Sts. $375,000. R. N. Clark, city engr.

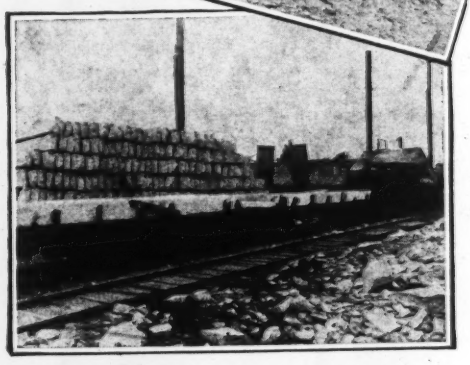
New York — Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, plans extending Bronx River Parkway, from Kensico Dam through Valhalla to Mt. Kisco, and to Peeskill and Bear Mountain Bridge Route. $2,000,000. J. Downer, c/o owner, ch. engr.

See proposal advertisements on page 151, Advertising Section.

Quarrying Curbstone

Wedges in place ready to split

The Split



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No curbing material is as strong and everlasting, unchangingly durable as massive, even-textured, natural *granite*. It is not expensive. Its widespread distribution makes it the lowest cost curbing material available. And it lasts for generations — its first cost is *final*. It is not chipped or broken. *It lives forever,* enhancing the appearance of both sidewalk and roadway. Write your nearest granite quarry—you will be promptly supplied with data on the various styles and qualities of granite for curbing, insuring the maximum of durability with the minimum outlay.

The Most Economical Curb

The most economical curb is one whose depth is three times its width.

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31 State Street, BOSTON, MASS.
Representing The World's Greatest Granite Quarries

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Streets and Roads (Continued)

New Jersey—State Hy. Dept., Trenton, plans concrete paving approximately 1 mi. Stuyvesant Ave. from Whittlesey Rd. to State Hospital, $70,000. W. G. Sloan, Trenton, highway engr.

N. J., Bradley Beach—Plans curbing, constructing bulkhead and graveling Bradley Blvd. from Main St. to Ocean Ave. $70,000. N. Rogers, Asbury Park, engr.

N. J., Bridgeton—Cumberand Co. plans concrete paving 6 mi. Bridgeton-Port Norris Rd. $265,000. W. M. Sharp, Bridgeton, engr.

N. J., Camden—State Hy. Comn., Trenton, plans constructing 4 mi. Crescent Route, approach to new river bridge, here, Camden Co. W. G. Sloan, Trenton, highway engr.

N. J., Red Bank—Monmouth Co. (Freehold), plans paving 3½ mi. Red Bank-Homedell Rd., here. $150,000. G. K. Allen, 60 Broad St., Red Bank, engr.

Pa., Pittsburgh—Soon takes bids grading, curbing and paving Hodgkiss St. between Stayton and Superior Aves., $39,000, and Bensonia Ave. between Shiras St. and Mackinaw Ave., 33 ft. $30,000. City Dept. of Pub. Wks., City County Bldg., engrs.

W. Va., Williamson—City and Mingo Co. soon take bids paving 1 mi. or more various streets. $40,000. P. M. Burton, Williamson, co. engr.

North Carolina—State Hy. Dept., Raleigh, plans clearing, grading and topsoiling 7.595 mi. Project 574, Moore Co., $38,000; grading and concrete or asphalt paving 2.86 mi. Project 9060, Buncombe Co. $86,000, 7.881 mi. Project 112, Camden Co. $236,000, and 6.041 mi. Project 6690 $180,000; clearing and grading 13.361 mi. Project 685, Stanly Co. $67,000, 11.11 mi. Project 591, Rockingham Co. $51,000, 11.509 mi. Project 480, Wake Co. $65,000, 10.505 mi. Project 398, Robeson Co. $65,000, 11.553 mi. Project 244, Jones Co. $80,000, and 8.34 mi. Project 135, Halifax Co. $45,000. C. M. Upham, Raleigh, engr.

North Carolina — State Hy. Dept., Raleigh, plans clearing, grubbing and grading 20 mi. Project 270 from Sampson Co. from Cumberland Co. line to Clinton. $140,000. C. M. Upham, Raleigh, engr.

North Carolina — State Hy. Dept., Raleigh, rejected bids Feb. 8, clearing, grading and topsoiling 12 mi. Project 303, Bladen Co. $75,000. C. M. Upham, Raleigh, engr. Noted Feb. 18.

Ga., Jasper—Pickens Co. voted $100,000 bonds, constructing roads.

Ga., Toccoa—Stephens Co. election soon $200,000 bonds constructing roads.

Ga., Wrightsville — Johnson Co. voted $200,000 bonds, constructing roads and bridges.

Miss., Biloxi—See "Unclassified."

Miss., Gulfport — Harrison Co. making preliminary plans Warrenite, etc., paving Beach Highway and Porter Ave. Election soon $175,000 bonds for same. W. S. Hawkins, co. engr.

Miss., Ripley — Tippah Co. voted $100,000 bonds, improving roads in Dist. 1; and $150,000 bonds, roads in Dist. 2. Noted Jan. 14.

Louisiana—State Hy. Dept., Baton Rouge, soon takes bids graveling 22 mi. highway from Lake Providence to Jackson Ferry Bridge across Bayou Macon, State Project 45, East Carroll Parish. W. B. Robert, Reymond Bldg., Baton Rouge, engr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 15 mi. Ripley-Haywood Co. line Rd., Lauderdale Co., and 7 mi. Mosheim-Hawkins Co. line Rd., Greene Co. C. N. Bass, acting comr.

Tenn., Clarksville — Plans improving 2 mi. various streets. $25,000.

Tenn., Dyer — Plans probably concrete paving various streets. To exceed $25,000. L. E. Elkins, mayor.

Tenn., Madisonville — Monroe Co. plans improving 10 mi. Tellico Plains-Coker Creek Rd. $25,000.

Tenn., Ripley—Plans probably concrete paving various streets. To exceed $25,000.

Ky., Paducah—McCracken Co. election Apr. 17, $500,000 bonds, improving various roads. H. L. Meyers, genl. chn.

O., Akron—W. F. Peters, dir. Pub. Serv., soon takes bids grading, cindering and walks, etc. on 55,000 sq.ft. Stanton Ave. et al., $23,500; also 8,000 sq.ft. Sheck St., $6,600. E. A. Kemmler, Municipal Bldg., engr.

O., Canton—Stark Co. plans grading and gravel widening Brester-Canal Fulton Rd. $52,000. A. M. Wise, Canton, engr.

O., Chesepeake—City Council soon takes bids widening and paving 3rd Ave. $47,000. J. J. Paull, mayor.

O., Cleveland—Plans grading and paving with (a) brick (b) asphalt (c) concrete, etc., 514 ft. Spring St. from Grant Ave. to Cleveland Ave., 46 ft., (a) $6,243 (b) $5,585; 612 ft. Olive St. from Westmoor Ave. to Brinker Ave., 24 ft., (a) $10,518 (b) $7,874; 20,079 ft. Columbian Ave. from Sullivant Ave. to Mound St., 26 ft., (a) $48,930 (b) $38,932; 638 ft. Palmetto Ave. from Westmoor to Brinker Aves., 24 ft., (a) $15,089 (b) $11,870; 322 ft. alley west Hawkes Ave. from State St. to alley north Town St., 16 ft., (a) $2,679 (c) $2,433; 740 ft. alley west Belvidere Ave. from 4th alley north Sullivant Ave. to 3rd alley north Sullivant Ave., 20 ft., (a) $6,824 (c) $6,100; 515 ft. alley west Avondale Ave. from State to Town Sts., 16 ft., (a) $3,628 (c) $3,240; 346 ft. alley north Bellows Ave. from Davis to Souder Aves., 16 ft., (a) $2,662 (c) $2,408; 1,131 ft. alley west 22nd St. from 1st alley north Long St. to 4th alley north Long St., 15 and 20 ft., (a) $7,939 (c) $6,991. R. H. Simpson, city engr.

O., Cincinnati — Plans grading, curbing, guttering and sheet asphalt paving 31,500 sq.yd. Central Parkway from Bway. to 12th St. (Sect. 1), $543,481; 36,000 sq.yd. Central Parkway from 12th St. to Mohawk (Sect. 2), $504,940; 12,500 sq.yd. Central Parkway from Brighton to Mohawk (Sect. 3), $200,976; and 60,000 sq.yd. Central Parkway from Brighton to Ludlow Ave. (Sect. 4), $1,714,643. F. Raschig, City Hall, engr.

O., Cincinnati—Hamilton Co. plans tar bound macadam paving 105,400 sq.yd. Section Rd. from Cincinnati-Dayton Rd. to Cincinnati-Zanesville Rd. $70,230. E. A. Gast, Court House, engr.

O., Dayton — Plans stone curbing, and brick on concrete paving 2,700 ft. Findlay St. from 3rd to Canal Sts., $50,000; also brick on present concrete repaving 2,000 ft. Forest St. from River Neal Sts., $20,000. J. F. Hale, city engr.

O., Marietta—Soon takes bids brick on 7 in. rein.-con., asphalt filter paving Putnam St. $91,015. F. H. Mautz, Marietta, engr. Noted Dec. 3.

Mich., Flint — Plans paving 28 streets, $349,920; and sidewalks on various streets, $50,000. H. C. McClure, city engr.

Mich., Holland—Plans paving 2 mi. various streets. $217,889. J. Zuidema, city engr.

Ill., East St. Louis — Soon takes bids grading, curbing and 8 in. concrete paving, etc., 6 blocks North 3rd, Illinois and St. Louis Aves. $69,400. W. McK. Brown, City Hall, engr.

Ill., Farmington—City and Farmington Twp. take bids in March, 18 car loads road oil on various streets and roads. F. Sutton, highway comr.

Ill., Geneseo — Takes bids in spring or early summer grading and rein.-con. paving 21,000 sq.yd. Main and Oakwood Sts. J. A. Bryan, City Hall, engr. Noted Dec. 10.

Ill., Knoxville — C. Wymon, highway comr., takes bids in May 4 or 5 car loads road oil on various streets in Knox Twp.

Ill., Mount Carmel—Making preliminary plans improving 38 mi. various roads, 38,000 cu.yd. gravel, etc. $107,000. D. A. McClung, supt. County Highway Dept.

Ill., Rockford — Plans grading, curbing and concrete paving 10 blocks West St., 30 ft. $57,880. B. C. Harvey, City Hall, engr.

Wis., Beaver Dam—W. A. Gergen, city clk., making preliminary plans concrete and various types paving approximately 10,000 sq.yd. York, East 3rd and Haskell Sts. To exceed $25,000. E. B. Parsons, 419 North Washington St., Watertown, engr.

Wis., Madison—W. R. Winckler, city clk., plans rein.-con. or asphalt paving Curtiss Pl., Washington, Thornton and Sherman Aves., Wirth, Delphion, Givinnett and Haven Courts, Regent, Knickerbocker, Bryon, Bashford, Oak, Garrison, Marquette, Union, Broom, Superior, Langdon, Lake, Doty, Garfield and Pond Sts. $394,000. Engineer not selected.

Wis., Tomahawk—H. G. Bell, city clk., plans rein.-con. paving, etc. 38,000 sq.yd. 4th St., Wisconsin and Tomahawk Aves. E. B. Parsons, 419 North Washington St., Watertown, engr.

Ia., Cedar Rapids—L. J. Storey, city clk., takes bids about Mar. 25, grading, curbing, guttering and concrete paving 6,472 cu.yd. Bowling St. Noted Dec. 3.

Ia., Clinton—Clinton Co. plans grading, bridging and concrete paving 33 mi. various roads, 18 ft., for period of 3 years. $1,500,000. E. Lorenzen, Clinton, co. engr.

Ia., Ottumwa—Wapello Co. election Mar. 16, $1,000,000 bonds, improving various sections Roads 8, 13 and 98. H. E. Hansell, Court House, engr.

Ia., Toledo — Tama Co. plans grading, bridging and gravel surfacing 150 mi. various roads, and paving 25 mi. primary system. $900,000. L. W. Croft, Toledo, co. engr.

Kan., Independence — Montgomery Co. making plans bituminous macadam surfacing 1.191 mi. Havana-Niotaze Rd., 18 ft. To exceed $25,000. H. K. Hibbard, Independence, engr.

Kan., Iola—Allen Co. plans grading and concrete surfacing, etc., 4.036 mi. Federal Aid Project 328-A, 18 ft. A. R. Stroup, Iola, co. engr.

Mo., Kansas City—Making plans 5,170 ft. concrete curbing, 1,250 sq.yd. bituminous macadam and 8,200 sq.yd. 7 in. concrete paving in front of Memorial Park. $32,000. P. McGeeharn, city engr.

Kan., Newton—Harvey Co. plans grading and concrete surfacing, etc., 4.053 mi. Federal Aid Project 329-A, 18 ft. A. Hay, Newton, co. engr.

Kan., Olathe—Johnson Co. making preliminary plans brick or concrete paving 5.157 mi. Midland Trail, 18 ft., Federal Aid Project 315-B. E. J. Terrill, Olathe, engr.

Neb., Holdrege — Making plans curbing and paving, etc. 7,400 yd. various streets. To exceed $25,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Neb., Omaha—Plans widening, grading, curbing, paving, etc. 20th St. between Howard and Farnam Sts. $200,000. J. Koutsky, city comm.

Mo., Platte City—Election Mar. 16, $26,000 bonds, asphalt on concrete paving approximately 23,000 sq.yd. various streets. W. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, engrs.

Mo., Webb City—Election Apr. 6, $40,000 bonds, amiesite paving various streets.

Tex., Abilene—Taylor Co. making plans grading, bridging and paving 32.71 mi. State Highway 30, through Taylor Co., 18 ft. $453,400. L. C. McCanlies, Abilene, engr.

Tex., Anderson — Grimes Co. making plans grading and bridging 10 mi. Navasota-Conroe Highway. $30,000. O. A. Seward, Jr., Navasota, engr.

Tex., Anson — Jones Co. making plans gravel surfacing 15.39 mi. Highway 18, $52,000; also 9.68 mi. Highway 30, $26,000. J. W. Puckett, Stamford, engr.

Tex., Beaumont—Jefferson Co. election soon $2,500,000 bonds, hard paving 90 mi. roads not improved. B. F. Shipley, Beaumont, engr.

Tex., Beeville—Making preliminary plans asphaltic paving 21 blocks St. Marys St. from Southern Pacific R.R. tracks to Courthouse and intersecting streets off Washington St. $35,000. Address Mayor.

Tex., Coleman — Coleman Co. making plans bituminous surfacing 61 mi. highways through county, 18 ft. $250,000. G. E. Franklin, Eastland, div. engr.

Tex., Denison—Election Apr. 6, $50,000 bonds paving various streets. C. E. Haydon, Denison, engr.

Tex., Dickens—Dickens Co. making plans grading, bridging and gravel surfacing 3.4 mi. Highway 18. $25,000. J. W. Alger, Dickens, engr.

Tex., Franklin—Robertson Co. making plans hardsurfacing 9 mi. Highway 6 between Calvert and Hearne. $200,000. L. A. Peterman, Hearne, engr.

Tex., Galveston — Galveston Co. plans rein.-con. paving 21 mi. Highway 6 between La Marque Crossing and League City, 18 ft. $400,000. C. C. Washington, Galveston, engr.

Tex., Groesbeck — Limestone Co. making plans grading, bridging and 9 in. waterbound macadam with 2½ in. block base and 1 in. asphalt topping 3½ mi. Highway 7, Mexia-Teague Rd., $146,000; 4.92 mi. Highway 14, west from Mexia toward Wortham, $226,800; 2¾ mi. Highway 14 between Mexia and Groesbeck, $117,500, all 18 ft. H. Boyette, Mexia, engr.

Tex., Groesbeck—Limestone Co. making plans grading, bridging and 9 in. waterbound macadam, 2½ in. block base and 1 in. asphalt topping 8.8 mi. Mexia-Waco Rd., Highway 7. $385,000. H. Boyette, Mexia, engr.

Tex., Kaufman—Kaufman Co. made plans rein.-con. paving 10.74 mi. Highway 40 between Brushy Creek and Dallas Co. line, 9 ft. $154,600. S. J. Treadway, Terrell, engr.

Tex., Palestine — Anderson Co. making plans gravel surfacing 10.75 mi. Highway 43, 18 ft. $29,700. E. W. Davis, Palestine, co. engr.

Tex., Quanah—Hardeman Co. making plans grading, bridging and concrete paving 7.56 mi. Highway 5 extending east from Quanah city limits, 18 ft. $284,500. J. B. Nabors, Quanah, engr.

Okla., Fairview—Plans grading and concrete paving 26,600 sq.yd. Central, Bway., F and East Railroad Sts., Dist. 3. $76,000. H. G. Olmstead, 2230 West 18th St., Oklahoma City, engr.

Okla., Morrison — Making preliminary plans concrete paving 9,600 sq.yd. Main St.

See proposal advertisements on page 151, Advertising Section.

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Streets and Roads (Continued)

$30,000. T. D. Noonan, mayor. Engineer not announced.

Okla., Red Oak — Making preliminary plans grading and concrete paving 8,870 sq. yd. Main St. $28,000. J. G. Hanell, mayor. Engineer not announced.

Wash., Hoquiam—Election soon $96,000 bonds, paving Emerson Ave.

Calif., Coronado—Made plans curbing and 4 in. bituminous macadam paving Pomona and Miguel Aves., etc. To exceed $25,000. W. T. Clark, city clk.

Calif., Glendale—City Trustees soon take bids improving Canyon Dr., etc., 162,109 sq.ft. concrete paving, 176,415 sq.ft. grading, etc. J. F. Johannsen, city engr.

Calif., Lodi—Making plans paving, etc. portions of Lockeford, Stockton Sts., etc. $35,000. L. F. Barzellotti, city engr.

Calif., Los Angeles — Los Angeles Co. plans improving 114th St. between Hawthorne Blvd. and Western Ave., 17,399 cu.yd. excav., 290,467 sq.ft. Willite paving, 306,775 sq.ft. disintegrated granite sub-base, etc., to exceed $95,000.

Calif., Pomona—Making plans improving Hamilton Blvd., etc., 268,000 sq.ft. 5 in. oil macadam paving, 14,000 sq.ft. guttering, 7,400 ft. curbing, etc. F. C. Froedhe, city engr.

Calif., San Diego—San Diego Co. plans improving Ramona-Julian Highway, 68,053 sq.yd. 5 in. concrete paving, etc., approximately $300,000; streets in Talmadge Park 1, 22,936 sq.yd. 1½ in. on 2½ in. asphaltic concrete paving; Talmadge Park 2, 16,665 sq.yd. 4 in. concrete paving, etc. E. R. Childs, Court House, engr.

Calif., San Diego—San Diego Co. made plans improving University Ave. and Chollas Rd., 16,181 lin.ft. cement curbing, 77,924 cu.yd. excav., 40,109 sq.yd. 1½ in. asphaltic concrete on 5 in. concrete paving, etc.; also Arizona, Collier, Hamilton, Oregon and Idaho Sts., 25,263 sq.yd. 1½ in. asphaltic concrete on 4 in. concrete paving, etc. F. A. Rhodes, City Hall, engr.

Calif., Salinas—Making plans 5 in. concrete paving portions of Lake and Sausal Sts. $25,000. H. Cozzens, city engr.

Calif., Stockton—San Joaquin Co. made plans improving Jacobs Rd. 338, 1,400 tons 2½ in. course gravel, 1,050 tons top course, 1½ in. gravel. F. E. Quail, Stockton, co. surv.

Calif., Whittier — Made plans improving Philadelphia St. between Tract 7381 and Worsham Dr., 189,200 sq.ft. grading, 78,764 sq.ft. 6 in. and 110,435 sq.ft. 5 in. concrete paving, 13,854 lin.ft. concrete curbing, 39,911 sq.ft. concrete walks, 6,800 lin.ft. 6 in. and 1,351 lin.ft. 4 in. sewers, 13,000 cu.yd. excav., 3,000 cu.yd. fill, etc. To exceed $70,000. M. R. Bowen, city engr.

Ontario—Dept. Pub. Highways, Parliament Bldgs., Toronto, plans improving provincial highways in Kent Co. $60,000. R. M. Smith, 110 University Ave.; Toronto, engr.

Ontario—Dept. Pub. Highways, Parliament Bldgs., Toronto, plans macadam or concrete paving 8.95 mi. Longwoods Rd., $268,000; and surface treating 9.4 mi. Longwoods Rd., $8,460, in Kent Co. R. M. Smith, 110 University Ave., Toronto, ch. engr.

Ont., Chatham—Kent Co. plans grading, graveling, concrete and macadam paving various roads. $220,500. W. D. Colby, Harrison Hall, engr.

Ont., Cobourg — Northumberland and Durham Counties, plan macadam, concrete and gravel surfacing various roads. $90,000. G. Greer, County Bldg., engr.

Ont., Hamilton — Making plans curbing, guttering and asphalt on concrete paving 6,500 sq.yd. Cameron Ave. $27,540. W. L. McFaul, City Hall, engr.

Ont., Oshawa — Ontario Co. plans concrete paving approximately 1 mi. Simcoe St. from city limits northward to intersection of Five Points Rd. $25,000-$30,000. D. J. Kean, County Bldg., Whitby, Ont.

Ont., Ottawa — Ottawa Suburban Road Comn., 279 Carling Ave., Ottawa, soon takes bids paving 9 mi. March Road, about 12 mi. west of here. $35,000. A. K. Hay, 279 Carling Ave., engr.

Ont., Ottawa — Bd. Control soon takes bids asphalt on concrete paving O'Connor St. $34,000; and Canal Sts. $25,000. A. J. Macallum, City Hall, engr. Noted Feb. 18.

Ont., Perth — Making plans concrete, asphalt or macadam paving main streets. $50,000. Wynne-Roberts, Son & McLean, 88 Church St., Toronto, engrs.

Ont., St. Thomas—Elgin Co. plans grading, graveling, macadam and concrete paving various roads. $75,000. F. Pineo, County Bldg., engr.

Ont., Toronto—Plans asphalt on concrete paving Poplar Plains Rd., $10,132; concrete sidewalks on Jane St. $12,399, and Armadale Ave. $345; extending Weston Rd., $1,936; opening lane between Erskine and Keewatin Aves., $3,200; widening Rowntree Ave., $9,712; also grading, curbing, guttering, concrete sidewalks and probably asphalt on concrete paving Shuter St. from Sherbourne to Seaton Sts. and Sydenham St. from Ontario to Seaton Sts., $120,000. R. C. Harris, city engr.

Ont., Toronto—York Twp. plans bituminous on concrete paving 4,150 ft. Oakwood Ave. from Earlsdale Ave. to Vaughan Rd., and from Eglington Ave. to Vaughan Rd., 24 ft. $65,000. F. G. Goedike, 40 Jarvis St., engr.

Ont., Toronto — East York Twp. soon takes bids grading, etc., Don Valley Dr. and Hillside Crescent. $26,000. G. R. Jack, 443 Sammon Ave., Toronto, engr.

Que., Quebec—Plans paving streets in various wards. $150,000. W. D. Baillarge, City Hall, engr.

Que., Quebec — Voted $125,000 bonds, widening Cote d'Abraham. W. D. Baillargeon, City Hall, engr. Noted Feb. 4.

British Columbia—Municipality of Burnaby and Provincial Government, Victoria, making plans constructing 8½ mi. road from Hastings to Barnet, in Burnaby, 18 and 40 ft. $256,450. A. K. McLean, Burnaby, recvr.

B. C., Vancouver — City, W. McQueen, clk., making plans paving and sidewalks on various streets. $200,000. C. Brakenridge, city engr. Noted Nov. 12.

Mexico and Texas—Governor Gil of State of Tamaulipas, Mexico, and committees from Matamoras, Mexico and Brownsville, Tex., Chamber of Commerce, making preliminary plans hardsurfacing 200 mi. highway from Matamoras, Mexico, to Laredo, Tex., via Victoria. $8,000,000.

BIDS DESIRED

Rhode Island—Mar. 17, by State Bd. Pub. Rds., State House, Providence, concrete paving 2.3 mi. Contr. 2602, Warwick; bituminous macadam paving 2.2 mi. Contr. 2603, North Smithfield; graveling 2 mi. Contr. 2504, Foster; and sheet asphalt paving 0.87 mi. Contr. 2601, North Providence; adv. E. N.-R. Mar. 4.

New Jersey — Mar. 22, by State Hy. Comn., Trenton, grading and rein.-con. paving 24,951 sq.yd. Route 18 (North) Sect. 2, Alpine to New York State Line, Bergen Co. A. L. Grover, secy.; adv. E. N.-R. Mar. 4.

Pa., Altoona—Mar. 10, by City Council, W. J. Hamer, clk., 28,652 sq.yd. rein.-con., 5,663 sq.yd. vibrolithic, 4,448 sq.yd. Warrenite bitulithic, and 1,565 sq.yd. concrete carolite paving various streets. H. J. Baum, City Hall, engr.

Pa., Ebensburg — Mar. 12, by I. J. McKendrick, Ebensburg, solicitor Cambria Co., grading and one course concrete paving 1 mi. Blandburg Rd., 16 ft., Reade Twp., $50,000.

Pa., Phila.—Mar. 9, by Dept. Pub. Wks., Bureau of Highways, Schedule A, grading 380,102 cu.yd. Afton, Faunce, Loney, Aldine, Bleigh, Cottage, Erdrick, Jackson, Loring, Marple, Napfle, Oakmont, Shelmire, Teesdale, Tudor, Vista, Walker, Andrews, Georgian, 19th, 20th, Aurania, Bean, Evergreen, Lare, Parker, Summit, Bellfield, Cliveden, Cemetery, Chelwynde, Este, Guyer, Island, Sylmar, 57th, 58th, 65th, 68th, 69th, 74th, Colonial, Smedley, 16th, Gates, Glen Echo, Kingsley, Large, Longshore, Manatawna, Penn, Tilden, Vaux, Philmont, Ritner, 12th, Spangler, Westmoreland, 31st, 34th, Wadsworth and 68th Sts.; Schedule B, asphalt paving (assessment work), 18,421 sq.yd. Bowman, Vaux, Sherwood, 69th, 20th and 21st Sts.; Schedule C, surfacing 34,065 sq.yd. Terminal and 11th Sts.; Schedule D, asphalt repaving 13,690 sq.yd. Clarion, Page, Dudley, Hoffman, Wilder and Susquehanna Sts.; Schedule E, redressed granite block repaving 26,759 sq.yd. Carlton, Leland, Master, Olive, 11th and 16th (track area) Sts.; Schedule F, demolition and removal of Rhawn St. Bridge over Pennypack Creek; Schedule G, repairs to Lutz asphalt heaters; and Schedule I, furnishing ready mixed concrete and asphalt paving mixtures. G. H. Biles, dir.

Md., Baltimore—Mar. 10, by Bd. Awards, sheet asphalt paving 12,200 sq.yd. streets listed in Contr. 310; 6,950 sq.yd. in Contr. 311; 6,300 sq.yd. in Contr. 312; and 4,160 sq.yd. in Contr. 313. S. Purcell, City Hall, highways engr.

Md., Towson—Mar. 9, by Baltimore Co., Courthouse, concrete paving 1.17 mi. Worthington Ave. from end of concrete to Tufton Ave.; and 0.2 mi. Tufton Ave. from Worthington Ave. to end of concrete. S. A. Green, Courthouse, road engr.

Fla., Tampa — Mar. 9, by City Comrs., City Hall, 4 in. granite curbing, 2½ in. asphalt on 6 in. rock or shell paving Impvts. 180-188-192, $34,000; Impvts. 132-146-147-148-149-177-218, $30,000; and Impvts. 217 and 259, $29,000. R. D. Martin, city engr.

Fla., Tampa — Mar. 12, by Bd. Comrs. Hillsborough Co., Courthouse, grading, curbing and 2 in. amiesite on 6 in. lime rock paving various streets. W. T. Williams, chn.; adv. E. N.-R. Mar. 4.

Alabama—Mar. 10, by State Hy. Dept., Montgomery, improving 6.75 mi. Montgomery-Wetumpka Rd., Federal Aid Project 153, Montgomery Co., 5.808 acres clearing and grubbing, 85,012 cu.yd. excav., 15,539 yd. overhaul, 35,000 lb. reinforcing, 20,000 sq.yd. Bermuda sod, 72,500 sq.yd. concrete, macadam, sheet asphalt, or asphaltic concrete, paving, etc. W. A. McCalla, highway engr.

Tenn., Nashville — See "Contracts Awarded."

Tenn., Johnson City—Mar. 11, by Bd. City Comrs., Municipal Bldg., grading, curbing, guttering 14,500 ft. 6- to 18-in. sewers, and paving 57,000 sq.yd. various streets. W. I. Hart, comr.

O., Dayton—Mar. 8, by Comrs. Montgomery Co., rein.-con. or asphalt on concrete paving 70,000 sq.yd. Windsor, Princeton, Kensington, Everett, Emerson, Mumma, Hoover, Fairview, Rosemont and other streets. $200,000. W. O. Pease, Dayton, co. surv.

Ind., Anderson—Mar. 15, by Comrs. Madison Co., Court House, grading, curbing and concrete paving ¾ mi. West 9th St. from Madison to Raible Aves., 30 ft. $50,000. M. A. Steele, Court House, co. surv.

Ind., Anderson—Madison Co. taking bids concrete paving 1¼ mi. road, 18 ft., in Jackson Twp. $29,000. M. A. Steele, Anderson, engr.

Michigan—Mar. 16, at office Comrs. Kent Co., Grand Rapids, two 75 ft. span State Reward Bridge, File 410,803, Contr. 1. G. C. Dillman, Lansing, engr.

Mich., Grand Rapids—Mar. 9, by Kent Co., graveling 61,001 sq.yd. Kent Co. Road Project, incl. 24 ft. T beam bridge.

Mich., Kalamazoo — Mar. 8, by Kalamazoo Co., 16 ft. graveling 2.5 mi. Climax Twp. Rd. and 2.25 mi. Oshtenco Twp. Rd.

Ill., Chicago—Mar. 10, by City, City Hall, road binder on various streets. A. A. Sprague, comr.

Ill., Joliet—Mar. 19, by Clerk Will Co., grading, curbing and concrete or macadam paving 3.19 mi. Sect. Y-15-D, near Symerton. $40,000-$44,000. W. H. Smith, co. supt.

Wisconsin—Mar. 9, by State Hy. Dept. at Division Office 5, Court House, La Crosse, improving 6.21 mi. Hustler-Sparta Rd., Monroe Co., Div. Job 5692, 42,650 cu. yd. earth, 1,335 cu.yd. channel change, 780 cu.yd. loose and 2,084 cu.yd. solid rock excav., 8,673 cu.yd. borrow, 3,690 cu.yd. pea gravel surfacing, 14,707 cu.yd. 18 ft. shale surfacing, etc.; 4.48 mi. New Lisbon-Sparta Rd., Federal Aid Project 325-A, Monroe Co., 20 acre clearing, 15.6 acre grubbing, 52,231 cu.yd. excav., 110 cu.yd. borrow, 5,389 cu.yd. pea gravel and 10,447 cu.yd. 18 ft. shale surfacing, etc.; 1.35 mi. Winona-Marshland Highway, Federal Aid Project 340-B, Buffalo and Trempealeau Counties, 22,416 cu.yd. earth, 50 cu.yd. loose and 1,600 cu.yd. solid rock excav., 4,739 cu.yd. borrow, 5,406 sq.yd. concrete paving, one 120 ft. steel truss span bridge over Whiskey Creek and one 100 ft. steel truss span bridge over county line, etc. Alternate bids on (1) grading, surfacing, etc., and bridges; (2) bridges (3) grading and surfacing, etc. J. T. Donaghey, highway engr.

Wis., Sheboygan Falls—Mar. 16, by L. Kalk, city clk., improving various streets, 24,050 ft. concrete curbing and guttering, 14,455 cu.yd. excav., 40,000 sq.yd. two course concrete, vibrolithic concrete and one course concrete paving, etc. J. Donohue Eng. Co., 608 North 8th St., Sheboygan, engrs.

Kan., Erie — Mar. 31, by Clerk Neosho Co., grading, and concrete surfacing, etc. 24,756 sq.yd. Federal Aid Project 334-A. C. P. Donald, Erie, co. engr. Noted Jan. 14.

Kan., Erie — Mar. 31, by Clerk Neosho Co., grading, etc. 9.06 mi. Federal Aid Project 308-A, 36,769 cu.yd. excav., etc.; and 7.67 mi. same road Sect. B, 48,563 cu.yd. earth and 2,109 cu.yd. rock excav., etc. C. P. Donald, Erie, co. engr. Noted Dec. 24 and Feb. 25.

Kan., Hays—Mar. 26, by Clerk Ellis Co., grading, etc., 10.02 mi. Federal Aid Project

See proposal advertisements on page 151, Advertising Section.

Streets and Roads (Continued)

286-A and B, 28 ft. L. J. Loreditsch, Hays engr. Noted Mar. 13.

Kan., Holton—Mar. 24, by Clerk Jackson Co., grading, etc. 11.855 mi. Federal Aid Project 291-A, B and C, 28 ft. P. W. Wright, Holton, co. engr. Noted Jan. 7.

Kan., Larned—Mar. 23, by Clerk Pawnee Co., grading and sand clay surfacing, etc. 7.918 mi. Federal Aid Project 295-A, 18 ft. Le Roy Harris, Larned, co. engr.

Kan., Oskaloosa—Mar. 29, by Clerk Jefferson Co., vitr. brick, concrete or bituminous macadam paving 74,693 sq.yd. Federal Aid Project 227-A. R. C. Ham, Oskaloosa, co. engr.

Kan., Ottawa—Mar. 30, by Clerk Franklin Co., grading, etc. 5.057 mi. Federal Aid Project 280-C, 48,586 cu.yd. excav., etc.; 4.914 mi. same road, Sect. D, 41,433 cu.yd. excav., etc.; and 4.402 mi. same road Sect. E, 36,436 cu.yd. excav., etc. E. F. Loveless, Ottawa, co. engr.

Neb., Hastings—Mar. 8, by B. T. Naylor, Hastings, engr., curbing, guttering and paving, etc., approximately 13,000 yd. various streets in Dist. 125, for City. $25,000.

Montana—Mar. 16, by State Hy. Dept., Helena, grading, gravel surfacing, etc., 7.5 mi. Ravalli-Dixon Rd., Federal Aid Project 197, Sanders Co., $58,000, and 15.5 mi. Billings-Hardin Rd., Federal Aid Project 187, $125,000, also crushed gravel resurfacing 11 mi. Yellowstone Trail, Federal Aid Project 53-B, $22,500, both in Yellowstone Co.

Mo., Maryville—Mar. 10, by M. C. Smith, city clk., improving 4,347 ft. Walnut and 5th Sts., 3,062 cu.yd. excav., 10,125 sq.yd. 7 in. rein.-con. paving with 5 in. integral curb, 853 ft. 30 in. curbing and guttering, 230 ft. 4 in. concrete sidewalks, and 3,500 ft. 10 and 12 in. c.i. mains, etc.

Mo., St. Louis—Fairview Investment Co., 110 North 8th St., taking bids 8 in. concrete paving 23,000 sq.yd. streets, etc., in Russell Park Subdivision. $25,000-$30,000.

Tex., Cleburne — Mar. 19, by Mayor, permanent paving 40,000 sq.yd. Brazos Ave., North Robinson and East Wilson Sts., etc. $90,000. C. H. Tiesdale, Box 121, Cleburne, engr.

Tex., Medina — Medina Co. taking bids surfacing 10.47 mi. Highway 3, Federal Aid Project 270, Sect. C., $64,400; also 7.85 mi. Highway 3, Sect. D, $48,500, both 17 ft. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Tex., Uvalde—Uvalde Co. taking bids asphalt surfacing 5.88 mi. Sect. A Highway 3, Federal Aid Project 289, Unit 2. $32,900. M. B. Hodges, Uvalde, engr.

Tex., Uvalde — Uvalde Co. taking bids rock asphalt surfacing 14.11 mi. Highway 3, Federal Aid Project 289, Unit 2, $82,300; also 5.36 mi. same road, Sect. B, 18 ft., $29,300. M. B. Hodges, Uvalde, engr.

Okla., Okemah—Mar. 15, by J. S. Price, town clk., grading, curbing and concrete paving 11,650 sq.yd. South 3rd St. $32,600. J. M. Richards, Okemah, engr.

Nev., Reno—Mar. 15, by J. B. Reese, city clk., 660,000 sq.ft. 1.5 in. on 3.5 in. asphaltic concrete paving and 60,000 sq.ft. repairing various streets. H. Chism, city engr.

Washington—Mar. 16, by State Hy. Dept., Olympia, concrete paving approximately 2 mi. State Rd. 2, Lincoln Co 1.7 mi. road from Spokane west, Spokane Co., and 0.3 mi. State Rd. 12, Lewis Co.; crushed gravel surfacing approximately 8,000 cu.yd. State Rd. 11, Adams Co., and 5,000 cu.yd. State Rd. No. 3, Benton Co.; clearing, grading and crushed gravel surfacing 8,440 cu.yd. 5.3 mi. State Rd. 4, Okanogan Co.; also grading, etc. 77,000 cu.yd. State Rd. 8, Clarke Co., J. W. Hoover, Olympia, ch. engr.

Wash., Walla Walla — See "Contracts Awarded."

Calif., Santa Cruz—S. A. Evans, city clk., taking bids improving Mission St., etc., 43,365 sq.ft. grading for concrete paving, 27,418 sq.ft. grading for concrete guttering, 197,461 sq.ft. grading for macadam surfacing, 5,261 sq.ft. 4 in. concrete sidewalks, 3,680 lin.ft. concrete curbing, 27,418 sq.ft. concrete guttering, 197,461 sq.ft. 2½ asphaltic macadam surfacing, etc. J. K. James, city engr.

Ont., Toronto—See "Contracts Awarded."

BIDS RECEIVED

N. Y., Hamburg—Village, Feb. 23, concrete paving Buffalo St., from Holmes & Murphy, Buffalo St., Orchard Park, $43,200. Noted Feb. 11.

New Jersey—State Hy. Comn., Trenton, Mar. 1, grading, asphalt and concrete paving 30,828 sq.yd. Route 3, Sect. 14, in Absecon, Atlantic Co., from Interstate Eng. & Constr. Co., 918 Catherine St., Phila., Pa., $159,303. Noted Feb. 18.

Pennsylvania—State Hy. Dept., Harrisburg, Feb. 19 and Feb. 20, (**R. means Route and A. means Application**), one course rein.-con. paving 15,097 ft. Newberry Twp.-Goldsboro Rd., R. 449, A. 3547, York Co., from Continental Contg. Co., Knickerbocker Bldg., Baltimore, Md. $107,721, 22,670 ft. Upper Darby-Springfield-Nether Providence Twp. Rd., R. 130, Delaware Co., from W. Eisenberg, 5th and Market Sts., Camden, N. J. $174,890, 1,829 ft. East Pike Run Twp. Rd., R. 268, Sect. 9, A. 3919, Washington Co., from T. W. Munro & Co., Du Bois $28,538, 10,102 ft. Unity Twp. Rd., A. 3592-3633, Westmoreland Co., from Gray Bros., 817 Salt Spring St., Youngstown, O. $70,380, 7,446 ft. Jackson Twp. Rd., R. 111, A. 1451-3117, Greene Co., from Mosteller & Virgin, 315 Franklin Ave., Wilkinsburg $99,402, 8,907 ft. Hampton Twp. Rd., A. 3578, Allegheny Co., from T. Cronin Co., South 18th and Fox Sts., Pittsburgh $84,556, 7,343 ft. Hopwell Twp. Rd., A. 3325, Beaver Co., from Jones Constr. Co., Salem, O. $78,972, 1,978 ft. Mars Borough Rd., R. 309, A. 3702, Butler Co., from J. J. Meneice Sons Co., Ellwood City $25,454, 46,788 ft. Columbia, Springfield-South Creek Twp. Rd., R. 20, Sect. 10, Bradford Co., from Colonial Constr. Co., 901 Arrott Bldg., Pittsburgh $413,159, 23,693 ft. Arnagh Twp. Rd., R. 29, Mifflin Co., from Lord Constr. Co., Hastings $230,773, 37,987 ft. Reilly, Norwegian-Branch Twp. Rd., R. 199, Sect. 3, Schuylkill Co., from D. Schoentag, Inc., Saugerties, N. Y. $464,211, 25,095 ft. Oley, Upper Alsace, Exeter-Lower Alsace Twp. Rd., R. 197, Sect. 2, A. 3372, Berks Co., from Rudolph & Delano, 302 Peoples Trust Bldg., Tamaqua $215,995, and 27,856 ft. Greenwich-Albany Twp. Rd., Sect. 2, A. 3222, Berks Co., from Jar Constr. Co., Inc., 2261 Millburn Ave., Maplewood, N. J. $207,079; rein.-con. paving, etc. Shippen Co. Rd., R. 102, Tioga Co., from J. A. Crawford, Blossburg, $98,188; grading, etc. 46,982 ft. Carroll Twp. Rd., R. 40, Perry Co., from Ancon Constr. Co., 100 Oakley Rd., Upper Darby, $131,920. Noted Jan. 15.

South Carolina—State Hy. Dept., Columbia, Feb. 16, improving 3.1 mi. State Route 12, State Project S-522-B, Aiken Co., from B. W. Richardson & Son, Sumter, $23,529; asphaltic concrete paving 0.677 mi. Route 10, Federal Aid Project 170, Laurens Co., from Slattery & Henry, Greenville, $23,820. Noted Feb. 4.

Louisiana — State Hy. Comn., Baton Rouge, Feb. 23, constructing 7.65 mi. Jonesboro-Monroe Highway, State Project 414 C, Jackson Parish, from L. M. Goldberg, Abbeville, $37,384. Noted Jan. 28.

Ohio—Dept. Highways & Pub. Wks., Columbus, Feb. 19, grading and paving with (a) concrete (b) asphaltic macadam (c) tar macadam (1) 3.144 mi. Sect. "B" Carrollton-New Philadelphia Rd., 18 ft., Carroll Co. (2) 1.922 mi. Sect. "B" National Rd., 20 ft., Clark Co. (3) 2.202 mi. Sect. "E" same road (4) 3.82 mi. Sects. "C-2" and "C-3" Findlay-Delphos Rd., 16 ft., Hancock Co. (5) 0.97 mi. Sect. "L-1" Mansfield-Millersburg Rd., 18 and 19 ft., Holmes Co. (6) 3.85 mi. Sects. "O," "P" and "Solon" Springfield-Washington C. H. Rd., 18 and 20 ft., Madison Co. (7) 3.93 mi. Sect. "A" East Akron-Massillon Rd., Summit Co. (8) 3.377 mi. Sect. "P" Chagrin Falls-Greenville Rd., 18 ft., Trumbull Co.; gravel surfacing (9) 2.95 mi. Sect. "E" Mt. Vernon-Coshocton Rd., 16 ft., Coshocton Co.; grading shoulders and widening, etc. (10) 2.467 mi. Sect. "G" Allensburg-Lynchborg Rd., 17 ft., Highland Co.; traffic bound limestone paving (11) 0.097 mi. Sect. "B-2" McArthur Logan Rd., 18 ft., Hocking Rd. (12) 6.693 mi. Sects. "8-3" and "B" same road, 17 ft.; grading, etc. (13) 2.229 mi. Sect. "G" Newark Coshocton Rd., Licking Co., from Urban Bros., Massillon, (a1) $139,824; from Dougherty & Leach, Steubenville, (b1) $144,000 (c1) $146,000; from Schmidt & Radebaugh, Columbus, (a2) $50,168; from Putnam Eng. Co., Toledo, (b2) $52,929 (c2) $53,258 (c3) $53,443; from Mannix Bros., Greenville, (a3) $53,696; from W. H. Ringwald, Chillicothe, (b3) $52,479 (a6) $101,947; from D. C. Imbold, McComb, (a4) $87,253 (c4) $80,856; from C. E. Edington, Findlay, (b4) $74,918; from Allen County Paving Co., Lima, (a5) $2,957; from N. B. Putnam, Columbus, (b6) $88,587; from Craig & Jordon, Blanchester, (c6) $92,902; from McCourt Constr. Co., Akron, (g7) $192,975; from G. S. Mellert, Medina, (a7) $135,293; from Laubis Stone Co., Kenton, (b8) $89,739 (c8) $92,608; from Brilhardt & Wright, Warsaw, (9) $39,858; from Losey Eng. Co., Kenton, (10) $13,136; from L. S. Gaty, 387 Linwood Ave., Columbus, (11) $7,927 (12) $83,522; from Edwards Constr. Co., Sunbury, (13) $21,334. Noted Feb. 11.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, Feb. 19, from Amer. Paving Corp., 1325 Grace St., Omaha, Neb., 18 ft. concrete paving 1.96 mi. Route 30, Sect. 1, $20,038, and [illegible] mi. Route 30, Sect. 2, $82,490, both Pe[illegible] Co., from Globe Constr. Co., Evansvi[illegible] Ind., 11.81 mi. Route 30, Sects. 7 and 8, [illegible] Co. $219,404, from Regenhardt Con[illegible] Cape Girardeau, Mo., 4.81 mi. Ro[illegible] Sect. 14, Pike Co. $75,236, 4.86 mi. Sect. 15 $75,544, 3.5 mi. Sect. 16 $65,6[illegible] 4.86 mi. Sect. 17 $76,168, from [illegible] Smith Co., Rensalaer, Ind., 6.04 mi. [illegible] Sect. 40, Madison and Bond C[illegible] $128,313, from Edwardsville Const[illegible] Edwardsville, 1.65 mi. Route 4, Sec[illegible] Macoupin Co. $34,686, and from [illegible] Thompson Constr. Co., Joliet, 0.27 mi. [illegible] 22, Sect. 13-S, Will Co. $22,472; fro[illegible] D. Lonergan, Streator, grading and [illegible] crete paving 18.5 mi. Route 40, S[illegible] 5-A, 7 and 8, Carroll and Whitesi[illegible] and one 40 ft. and one 60 ft. span rein.-con. girder bridge on Route 40, Sect. 5-B, Carroll Co. $437,636. Noted Feb. 11.

Wis., La Crosse—W. J. Fries, city secy., paving various streets, from T. E. Wooley, 148 West Ave. S., rein.-con. $58,886; General Contg. Co., 1222 Plymouth Bldg., Minneapolis, Minn., bitulithic $70,913; and from O'Dea & Schafer, Madison, vibrolithic concrete $69,820. Engrs. est. $60,000. Noted Feb. 4.

Calif., Fullerton—City Trustees, Feb. 16, from Griffith Co., Ry. Bldg., Los Angeles, improving South Lawrence Ave., etc., 67,000 sq.ft. 5 in. asphaltic concrete paving $0.18 per sq.ft., 31,000 sq.ft. 6 in. concrete paving $0.18, etc., total $42,220.

Calif., Los Angeles—Bd. Pub. Wks., Feb. 8, from North Pacific Constr. Co., Delaller Bldg., improving Pico Blvd. between Crenshaw and Exposition Blvds., grading $122,617, 2,318,431 sq.ft. 8 in. concrete paving $0.23 per sq.ft. 11,415 sq.ft. 6 in. concrete paving $0.185, 99,391 sq.ft. asphaltic concrete paving remodel $0.265, 51,019 sq.ft. asphaltic concrete paving (2 in. surfacing paint binder, 6 in. concrete base) $[illegible]21, 28,192 sq.ft. remodel with rock and oil surfacing $0.13, etc., total approximately $1,034,885.

Calif., Los Angeles—From C. T. Sakota, 4551 East 6th St., improving Cristobal St., 2,466 lin.ft. curbing $0.55 per lin.ft., 11,242 lin.ft. sidewalk $0.15, 5,437 sq.yd. 8 in. concrete base $0.24, 4,135 sq.ft. 2 in. remodel rock and oil $0.10, etc. total $22,891; from Goddard & Briggs, Los Angeles, improving LaLoma Rd., 1,631 lin.ft. curbing $0.45, 1,081 sq.ft. sidewalk $0.145, 1,793 sq.ft remodel rock and oil paving $0.10, 35,070 sq.ft. 6 in. concrete base $0.22, etc., total $12,511; from G. H. Oswald, 366 East 58th St., improving 22nd St. and Lorena St. Impvt. Dist., 18,604 lin.ft. curbing $0.55, 1,737 sq.ft. 8 in. guttering $0.235, 1,899 sq.ft. 7½ in. guttering $0.22, 15,371 sq.ft. 6½ in. guttering $0.20, 92,919 sq.ft. sidewalk $0.13, 50,982 sq.ft. 2 in. sheet asphalt on 6 in. concrete paving $0.21, 36,451 sq.ft. cement on 6 in. concrete paving $0.19, 231,211 sq.ft. concrete 5 in. concrete paving $0.17, etc., total $114,554. Noted Feb. 18.

Calif., Los Angeles — Los Angeles Co., from B. R. Ford, 407 West 17th St., Santa Ana, improving Co. Impvt. 211, 23,454 cu.yd. excav. $0.43 per cu.yd., 11,533 ft. curbing $0.48, 56,730 sq. ft. walks $0.148, 43,452 sq.ft. guttering $0.19, 502,823 sq.ft. concrete paving $0.20, etc. total $165,446.

Calif., Los Angeles — Los Angeles Co., from L. J. Turner, 205 East 1st St., Long Beach, improving City Boundary Impvt. 26, 3,838 cu.yd. excav. $0.55 per cu.yd. 111,295 sq.ft. concrete paving $0.2085 per ft., total approximately $25,316.

Calif., Los Angeles—Supervs. Los Angeles Co., from B. R. Ford, 407 West 17th St., Santa Ana, improving Vermont Ave. between Los Angeles city limits and 120th Ave. (Co. Impvt. 211), 23,454 cu.yd. excav. $0.43 per cu.yd., 502,823 sq.ft. concrete paving $0.20, 56,730 sq.ft. sidewalk $0.148, etc., total $165,446, engrs. est. $188,563; from L. J. Turner, 205 East 1st St., Long Beach, improving Vermont and 182nd Sts., 3,838 cu.yd. excav. $0.55, 111,295 sq.ft. 9-7-9 in. concrete base, $0.2085, total $25,316, engrs. est. $27,517.

Calif., San Anselmo—From Valley Paving & Constr. Co., Visalia, improving Richmond Rd., Mariposa and Belle Aves., etc., 12,857 cu.yd. excav. $0.75 per cu.yd., 74,210 sq.ft. 5 in. asphaltic concrete paving $0.19, 162,281 sq.ft. 4 in. asphaltic concrete paving $0.175, 236,491 sq.ft. grading $0.01, etc., total $89,095. Noted Feb. 4.

Calif., San Diego — A. H. Wright, city clk., from G. R. Daley, 4430 Boundary St., improving Muir Ave. between Abbot and Guizot Sts., 2,873 cu.yd. excav. $1, 125,593 sq.ft. 1½ in. asphaltic concrete on 3 in. bituminous paving $0.169, 33,264 sq.ft. concrete sidewalk $0.22, 6,200 lin.ft. 8 in. concrete curbing $0.65, total $36,067; from Griffith Co., 25 14th St., improving Essex, Herbert and Vermont Sts., 212 cu.yd. excav. $1, 189,040 sq.yd. 1½ in. asphaltic concrete

See proposal advertisements on page 151, Advertising Section.

Streets and Roads (Continued)

on 4 in. concrete paving $0.198, 3,351 sq.ft. concrete sidewalk $0.21, 693 lin.ft. concrete curbing $0.64, etc., total $39,397. Noted Feb. 4.

Calif., San Rafael—Supervs. Marin Co., from W. Moreing, Harris Bldg., Stockton, improving Red Hill Rd. from Nicasio Rd. west to Platform Bridge, 3,000 cu.yd. surfacing $1.50 per cu.yd., 33,000 cu.yd. grading, owner furnishing culverts $16,340, contractor furnishing culverts, $17,400, etc. Noted Feb. 18.

CONTRACTS AWARDED

N. Y., Peekskill — Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading and concrete paving portion State Parkway from State Camp Rock to Bear Mountain Bridge Approach at Roa Hook, near here, to W. F. Carey, Inc., Peekskill, $21,380. Noted Feb. 4.

Pennsylvania—State Hy. Dept., Harrisburg. **(A means Application and R. means Route)**, rein.-con., paving, etc. 22,180 sq.yd. A. 3652, West Wheatfield Twp. Rd., Indiana Co., to R. V. Baldwin, Coraopolis $92,184, 77,457 sq.yd. R. 19 and 16, Sect. 3, Sullivan Co., to James & Nicholson Co., Johnstown $440,482, 8,280 sq.yd. R. 18 and 20, Lycoming Co., to A. W. Hinaman, Williamsport $47,363, 27,901 sq.yd. A. 3604, Spring-Lower Heidelberg Twp., Rd., Berks Co., to M. Staub, Reading $120,059, 9,582 sq.yd. R. 363, Sect. 2, A. 3661, Fayette Co., to Vipond & Strite, Altoona $48,166, 9,605 ft. R. 228 and 348, A. 3730, West Moreland Co., to State Constr. Co., New Kensington $116,709, 29,508 sq.yd. A. 3583 and 3631, Blair Co., to Lincoln Constr. Co., Strafford $112,435; and grading, etc. 38,555 ft. R. 40, North Middleton-Middlesex Twp. Rd., Cumberland Co., to Tristate Eng. Co., Cumberland, Md. $79,577. Grand total $1,056,975. Noted Feb. 18 and 25.

W. Va., Charleston—Kanawha Co. grading and paving Projects 171, 172 and 174, to Bruce Constr. Co., Charleston, $90,277. Noted Feb. 4.

North Carolina—State Hy. Dept., Raleigh, to N. L. Teer, Durham, improving 7.95 mi. Project 479, Wake Co. 76,800 cu.yd. common and rock excav. at $0.40 per cu.yd. 27,200 cu.yd. borrow $0.30, 1,028 lin.ft. 18 in. reinforced pipe $2.45, 248 lin.ft. 24 in. reinforced pipe $3.75, 234 lin.ft. 30 in. reinforced pipe $6.50, etc., total $47,766; to Hanford Bros., Burlington, 15.54 mi. Project 240, Johnston Co., 196,600 cu.yd. common excav. and borrow $0.41 100 cu.yd. solid rock excav. $2, 1,856 lin.ft. 18 in. rein.-con. pipe $1.80, 518 lin.ft. 24 in. $2.75, 674 lin.ft. 30 in. $4.50, etc., total $98,163, to Huffstitler & Ginn, Gastonia, 8.73 mi. Project 635, Gaston Co., 40 acres clearing $50, 500 cu.yd. drainage ditch excav. $0.60, 207,800 cu.yd. common excav. and borrow $0.34, etc. total $101,909, to W. E. Graham, Mt. Ulla, 6.47 mi. Project 650, Mecklenburg Co., 29 acres clearing $60, 700 cu.yd. drainage ditch excav. $0.60, 11,700 cu.yd. sloid rock excav. $0.90 634 lin.ft. 18 in. rein.-con. pipe $2.20, etc. total $68,619; to G. T. Martin, Salisburg, 5.76 mi. Project 465, Person Co., 500 cu.yd. drainage ditch excav. $0.60, 75,300 cu.yd. common excav. and borrow $0.45, 100 cu.yd. solid rock excav. $3, 54,190 sq.yd. plain concrete $2.47, etc. total $173,457; to R. H. Wright & Son, Bryson City, 10.27 mi. Project 579, Randolph Co., 100 cu.yd. drainage ditch excav. $0.75, 108,400 sq.yd. plain concrete $2.43, etc. total $273,037; to Highway Eng. & Constr. Co., Selbyville, Del., 6.57 mi. Project 4870, Wake Co., 11,600 cu.yd. common excav. and borrow $0.60, 67,820 sq.yd. plain 8 in. 7 in. 8 in. concrete paving $2.58, total $182,811; to O. F. Leighton & Co., Mutual Bldg., Richmond, Va., 13.46 mi. Project 3960, Robeson Co., 14,000 cu.yd. drainage ditch excav. $0.45, 126,090 sq.yd. plain 6 in. concrete paving $2.25, etc. total $294,593; 8.56 mi. Project 1020, Beaufort Co., 500 cu.yd. drainage ditch excav. $0.50, 9,000 cu.yd. common excav. $0.45, 80,390 sq.yd. plain 6 in. concrete $2.23, total $187,-340; to Powell Paving Co., Inc., Winston-Salem, 11.63 mi. Project 5230, Davidson Co., 13,000 cu.yd. common excav. $0.60, 122,780 sq.yd. cement concrete $1.66, 101,-940 sq.yd. asphaltic concrete $1, total $324,-155; to Tallassee Power Co., Calderwood, Tenn., 6.34 mi. Project 932-A, Graham Co., 53,800 cu.yd. common excav. and borrow $0.35, 61,800 cu.yd. solid rock excav. $0.90, 3,856 lin.ft. 18 in. corrugated metal pipe $2.60, etc., total $96,489. Grand total $1,848,339. Noted Feb. 18.

North Carolina—State Hy. Dept., Raleigh, to E. A. Wood & Co., Andrews, bridge on Project 240, Johnston Co., 103 cu.yd. Class "AA" concrete $34, 2,493 cu.yd. Class "A" concrete $32, 404,520 lb. reinforcing $0.05, etc., total $114,204, and on Project 465, Person Co., 15 cu.yd. Class "AA" concrete $30, 849 cu.yd. Class "A" concrete $27, 121,150 lb. reinforcing $0.05, etc., total $31,-344; to D. S. Blount, Charlotte, on Project 650, Mecklenburg Co., 941 cu.yd. Class "A" concrete $26.50, 126,190 lb. reinforcing $0.05, total $31,246; to T. A. Loving & Co., Goldsboro, on Project 479, Wake Co., 28 cu.yd. Class "A" concrete $30, 70 cu.yd. Class "B" concrete $24, 199,630 lb. reinforcing $0.05, total $48,573. Grand total $225,367. Noted Feb. 18.

South Carolina—State Hy. Comn., Columbia, topsoiling, etc. 6.4 mi. State Route 43, Federal Aid Project 268-A, Edgefield Co., to Nichols Constr. Co., 1 La France St., Atlanta, Ga., $35,829; also concrete bridge over Atlantic Coast Line R.R. tracks, on State Route 28, Federal Aid Project 12, Barnwell Co., to D. M. Richardson, Union $6,473, and 2 rein.-con. bridges on State Project S-522-B, Aiken Co., to Latimer & Peake, Columbia, $16,767. Noted Feb. 4.

Georgia—State Hy. Dept., East Point, **(F. A. P. means Federal Aid Project)**, earth approach fills to proposed overhead crossing near Ways, from Sta. 2325 to Sta. 2341, F. A. P. 177, Bryan Co., to Gibson Constr. Co., Savannah, $24,026; bituminous surfacing on bridges and surface treating 2.23 mi. Hazelhurst-Lumber City Rd., F. A. P. 210, Telfair and Jeff Davis Counties, to Hardaway Constr. Co., Columbus Office Bldg., Columbus, $19,670; topsoiling 5.2 mi. Royston-Danielsville Rd., F. A. P. 402-B, Madison Co., to W. C. McCoy Constr. Co., Lafayette, Ala., $27,856, and 2.5 mi. Alto-Baldwin Rd., F. A. P. 423-B, Habersham Co., to M. R. Woodal Co., Walton Bldg., Atlanta, $24,387; concrete surfacing 5.9 mi. Newman-Lagrange Rd., F. A. P. 33, Troup Co., to J. B. McCrary Eng. Corp., Citizens Southern Bank Bldg., Atlanta, $140,986, and 3.9 mi. Royston-Hartwell Rd., F. A. P. 189 and 448-B, Hart Co., to Campbell Constr. Co., Georgia Home Bldg., Columbus, $123,930; sand clay surfacing 5 mi. Lyons-Swainsboro Rd., F. A. P. 417-A, Emanuel Co., and paving 13.1 mi. Louisville-Wrens Rd., F. A. P. 249, Jefferson Co., to J. R. and J. B. Miller, Beaconton, $34,839 and $305,100 respectively. Grand total $700,794.

Ga., Atlanta — To Pittman Constr. Co., Rhodes Bldg., concrete paving 3,804 sq.yd. Matthews Ave. at $2.18 per sq.yd., 2,336 sq.yd. Kent Ave. $2.20, 2,222 sq.yd. Highland Terrace $2.20, and 1,405 sq.yd. Raymond St. $2.20, and to J. N. Saunders, 663 Gordon St. concrete paving 770 sq.yd. Tower St. $2.40; to Meador Constr. Co., 10 West Harris St., 54,000 sq.yd. concrete sidewalks on various streets at $1.47 per sq.yd., 56,000 sq.yd. concrete tile in city during this year at $1.49, and constructing concrete driveway in city $1.65; to MacDougall Constr. Co., 1803 Spring St., asphalt on Willite paving 3,772 sq.yd. Stephens St. at $2.40.

Fla., Key West—Monroe Co., constructing approximately 20 mi. Projects 7 and 9, to S. J. Groves & Sons, 306 Globe Bldg., Minneapolis, Minn., $875,000.

Alabama—State Hy. Dept., Montgomery, **(e. e. means engineers estimate)**, gravel surfacing 10.9 mi. Courtland-Town Creek Bridge Rd., 18 ft., Lawrence Co., to Nixon & Phillips, Lineville, $126,204, e. e. $130,-000; asphalt and top soil surfacing 2 mi. Camp Hill Rd., 20 ft., Tallapoosa Co., to J. A. Taylor, Tuscaloosa, $33,979, e. e. $34,-000; grading 2.5 mi. Moulton-Russellville Rd., Lawrence Co., to O. Littrell Constr. Co., Decatur, $21,088 e. e. $25,000, 14.86 mi. Seale-Girard Rd., Russell Co., to A. H. Singer, La Fayette, $83,495 e. e. $85,-000, and 19.4 mi. Tuscaloosa-Fosters Ferry-Greene Co. line Rd., Tuscaloosa Co., to Fountain, Lamb & McLemore, Montgomery, $137,620 e. e. $140,000, all foregoing 18 ft. Grand total $402,386. Noted Feb. 25.

Ala., Birmingham—City Comn., **(e. e. means engineers estimate)**, to Independent Paving Co., Amer. Trust Bldg., sheet asphalt paving 9 blocks 2nd Ave. S., 60 ft., $42,211 e. e. $85,900, to H. N. Bowdry, Alabama Power Co. Bldg., 1 block 32nd St., 60 ft., $4,178 e. e. $5,050, 1 block 23rd St., 60 ft. $5,331 e. e. $6,150, concrete paving 3 blocks 10th St. and Grayson Ave., 50 ft., $12,008 e. e. $15,500 and 2 blocks Pike Rd., 50 ft., $9,782 e. e. $11,345; to Morgan Hill Paving Co., Woodward Bldg., concrete paving 3 blocks Court R, 40 ft., $16,002 e. e. $19,250, sheet asphalt paving 7 blocks 5th Ave. S., 40 ft., $43,787 e. e. $78,000, asphalt paving 3 blocks Court Y and Ave. Z, Ensley, $18,980 e. e. $35,500; to Wood Rucker Constr. Co., Amer. Trust Bldg., sheet asphalt paving 2 blocks 16th St., 40 ft., $6,492 e. e. $8,280, and asphalt paving 2 blocks 4th Ave. S., 40 ft., $10,776 e. e. $26,350; to Dunn Constr. Co., Chamber of Commerce Bldg., sheet asphalt paving 8 blocks 3rd Ave. S., 40 ft., $47,703 e. e. $69,100, and 1 block 24th St., 60 ft., $2,682 e. e. $3,100; to Federal Asphalt paving Co., Amer. Trust Bldg., asphalt paving 5 blocks 2nd Ave., 40 ft., $35,499 e. e. $59,050, to P. Richter, 1805 Pearson Ave., 1 block Woodland Ave., 40 ft., $715, e. e. $1,900; to C. F. Browne, 224 Cornelia Ave., concrete paving 3 blocks 41st Alley S., 20 ft., $1,370 e. e. $1,650. Grand total $257,516. Noted Dec. 24 and Feb. 4.

Ala., Mobile — Mobile Bay Bridge Co., Meaher Bldg., roadways in connection with Mobile Bay Bridge, Mobile and Baldwin Counties, to J. Gwin, Age-Herald Bldg., Birmingham, $279,300. Engrs. est. $280,-000. Noted Jan. 21.

Miss., Jackson—Bd. Supervs. Hinds Co. and Advisory Committee, completing Jackson-Raymond Highway, to Horie & Gordon, Jackson concrete $437,632 or vibrolithic $462,376.

Tenn., Nashville—City will surface with granite block Union St. from 9th Ave. to Viaduct, and macadam surface 48th St. from Elkins Ave. to Wyoming Ave., by day labor. To exceed $25,000. W. W. Southgate, City Hall, engr.

Kentucky—State Hy. Dept., Frankfort, grading, etc., 4.064 mi. Columbia-Greensburg Rd., Federal Aid Project 143-A, Adair Co., to E. Young, Columbia, $39,-027. Noted Feb. 18.

O., Lisbon—Columbiana Co., surfacing North Georgetown-Valley Salem Rd., also grading and surfacing 4 mi. East Rochester-North Georgetown Rd., to Holmes Constr. Co., Wooster, $99,133 and $50,891 respectively. Engrs. est. $100,000 and $50,-000 respectively.

O., Portsmouth—Grading, curbing, widening and brick on 7 in. concrete paving 3,800 ft. Chillicothe St. from 2nd to 9th Sts., 40 ft., to T. J. McQuaide, Portsmouth, $25,007. Noted Feb. 11.

Mich., Mason—Ingham Co., 16 ft. graveling 2.042 mi. road, to M. W. Friedley, Eaton Rapids, $15,656; 3.221 mi. road, to C. A. Deihl, Dansville, $18,868; and 2.325 mi. road, to Welker & Van Dosler, Ney, O., $18,512. Grand total $53,035. Noted Feb. 18.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, grading Route 3, Sect. 33-X, Warren Co., to Wilson & Co., Peoria, $3,832 and Route 30, Sect. 3-A, Peoria Co., to Knapp & Cruse, East Peoria, $29,638; bridges on Route 30, Sects. 8-B and 3-B, Peoria Co., to Herrick Constr. Co., Carlinville, $13,850 and $6,513 respectively, and bridge on Route 30, Sect. 3-C, Peoria Co., to Clinton Bridge Co., Clinton $5,702. Grand total $59,535. Noted Dec. 3.

Ill., Batavia—To McCarthy Impvt. Co., Kahl Bldg., Davenport, Ia., concrete paving 27,000 sq.yd. various streets at $2.30 per sq.yd., grading $0.50 per cu.yd. and curbing and guttering at $0.64 per ft. Noted Feb. 11.

Ill., East St. Louis—Improving 18th St. from Bway. to Illinois Sts., 3,360 cu.yd. excav., removing 7,720 sq.yd. 8 in. concrete, 3,760 ft. curbing, also 8- to 12-in. vitr. clay sewers in Exchange Ave. from 18th to 20th Sts., to L. Rich & Sons, 1520 Winstanley Ave., $31,640 and $4,750 respectively; grading, curbing, sewering and 8 in. concrete paving 1,860 sq.yd. Wabasha St. from Summit to Clair Sts., to Moore Bros. Constr. Co., 925 North 8th St., $9,546. Grand total $45,936.

Ill., Galesburg — Grading, curbing and brick on concrete paving 8 blocks Day St., 27 ft., to H. H. Gunther, 571 North Seminary St., $42,096. Engrs. est. $44,830. Noted Feb. 18.

Ill., Pittsfield—Bd. Local Impvts., 7 in. rein.-con. paving, etc., 27,385 sq.yd. Central Paving Dist., to Divine Constr. Co., Papineau, $74,379. Noted Feb. 11.

Ia., West Liberty — City Clerk, 6 in. rein.-con. paving 35,000 sq.yd. various streets, to Union Constr. Co., 200 New York Life Bldg., Des Moines, at $2.03 per sq.yd. Noted Feb. 11.

Minnesota — State Hy. Dept., St. Paul, **(F. A. P. means Federal Aid Project and S. P. means State Project)** to C. F. Sculley Equipment Co., 212 Dakota Bldg., St. Paul, paving 47,298 sq.yd. Forest Lake-Wyoming Rd., S.P. 1-34, F.A.P. 322 $64,602, 30,132 sq.yd. White Bear-Hugo Rd., S.P. 1-36, F.A.P. 259 $48,429, 52,285 sq.yd. Hugo-Forest Lake Rd., S.P. 1-38, Div. B, F.A.P. 268 $71,360, and 12,500 sq.yd. road from Wyoming east, S.P. 46-23, F.A.P. 2 $32,908; and to Thornton Bros., 318 Endicott Bldg., St. Paul, 28,252 sq.yd. road north and south of Barnum, S.P. 1-44, Sect. 9, F.A.P. 123-D, $44,989. Grand total $252,288. Noted Jan. 14.

Minnesota — State Hy. Dept., St. Paul, grading 260,000 cu.yd. Moorhead-North Clay Co. line Rd., Federal Aid Project 349, State Project 6-44, to Stanley Bros., St. Cloud, $70,934; and 364,240 cu.yd. International Falls-Koochiching Co. line Rd., to Superway, Inc., Fergus Falls, $182,487. Noted Jan. 21.

Minn., Duluth — W. H. Tischer, city comr., grading and gravel surfacing 2.25 mi. Becks Road Blvd. connection, 24 ft.,

See proposal advertisements on page 151, Advertising Section.

Streets and Roads (Continued)

to Campbell Brewer Co., 1506 Alworth Bldg., $52,764.

Mo., Forsyth—For 7 in. concrete paving 11,500 sq.yd. various streets, to De Jarnett & Schrader, 506 West 2nd St., Sedalia, $34,-307.

Mo., Hamilton—C. F. Ridings, city clk., grading, curbing and 7 in. concrete paving 11,500 sq.yd. various streets, to DeJarnett & Schrader, Sedalia, $32,307. Noted Jan. 28.

Ark., Little Rock—Improving streets in Paving Dist. 431, 8,000 cu.yd. excav., 11,800 ft. concrete curbing, 17,000 sq.yd. 6 in. rein.-con. paving, also 200 ft. 12 in. and 200 ft. 18 in. storm sewers, etc., to Grady Garmes, Home Life Bldg., $46,522. Noted Feb. 11.

Tex., Abilene—Taylor Co., 1½ in. Warrenite bitulithic on 2 in. concrete and 6 in. gravel paving Sayles Blvd. to Butternut St., to West Texas Constr. Co., Abilene, $42,166. Engrs. est. $45,000.

Tex., Brownsville — Asphalt on wood block paving 30 blocks various streets, to Chapin Paving Co., 910 Austin St., San Antonio, approximately $60,000.

Tex., Cleburne — Permanent paving Buffalo St. from Harrell to West Chambers Sts., and College Ave. from Buffalo to Pendell Sts., to West Texas Constr. Co., Abilene, $45,673.

Tex., Denton—Paving 12,000 yd. Normal Ave. from Oak St. to Scripture Sts., Bell Ave. to Texas & Pacific Ry. tracks, Oak St. from North Locust St. to Texas & Pacific Ry. tracks, to W. M. Jagoe Constr. Co., Denton, $2.25 per cu.yd.

Tex., Groesbeck — H. F. Kirby, judge Limestone Co., 2 in. rock asphalt on 8 in. crushed rock paving 7.5 mi. Shiloh Rd. and Reunion Grounds Rd., 18 ft., to Brammer & Wilder, Stewart Bldg., Houston, $176,910. Engrs. est. $190,000. Noted Feb. 4.

Tex., San Angelo—For 3 in. brick on 6 in. concrete and inverted penetration on 10 in. gravel surfacing 13 blocks various streets, to Panhandle Constr. Co., Lubbock, $163,533. Noted Feb. 4.

Tex., San Antonio—Asphalt topping 16 blocks Kendall, Hoefgen, Mason, Post and South Pecos Sts., to Southwestern Bitulithic Co., c/o Gunter Bldg., $29,000.

Tex., Tulia—For 2½ in. brick on 4 in. concrete paving 47,000 sq.yd. various streets, to Jordan Constr. Co., Plainview, $131,806.

Tex., Wichita Falls—For 2 in. Warrenite bitulithic on 5 in. concrete paving 6 blocks Kemp Blvd., to West Texas Constr., Staley Bldg., $2.93 sq.yd. Engrs. est. $28,000.

Oklahoma — State Hy. Dept., Oklahoma City, concrete surfacing 121,718 sq.yd. Federal Aid Project 130-D and E, Logan Co., to Green Constr. Co., 519 West Main St., Oklahoma City, $211,041. Engrs. est. $280,000. Noted Feb. 18.

Okla., Hennessey—Grading and concrete paving 19,300 sq.yd. Main St., to E. W. Baker, 1116 West Main St., Oklahoma City, $52,128. Engrs. est. $65,587.

Colorado—State Hy. Dept., Denver, sand surfacing 6.856 mi. Federal Aid Project 278-B, extending southeast from Hugo on Rd. 8, Lincoln Co., to D. S. Reid Constr. Co., 501 Tramway Bldg., Denver, $17,223; paving 0.879 mi. Federal Aid Project 275-D, Douglas Co., to J. F. Roberts & Sons Constr. Co., Tramway Bldg., Denver, $55,701; and grading 5.772 mi. Federal Aid Project 279-C, Jefferson & Park Counties, to W. A. Colt & Son, Las Animas, $125,996. Noted Jan. 14. Grand total $198,920.

Washington—State Hy. Dept., Olympia, improving 0.92 mi. State Rd. 8, 43,000 cu. yd. earth and 27,000 cu.yd. rock excav., 565 cu.yd. concrete, 16 ton reinforcing and 3,800 lin.ft. timber piles, to Myers & Goulter, 607 Cherry St., Port Angeles, $55,698, and 3.1 mi. State Rd. 6, to Cole & Strong, Riverside, $13,843, both in Skamania Co.; crushed rock resurfacing 7,100 cu.yd. State Rd. 3, Walla Walla Co., to H. W. Anderson, 311 California Bldg., Tacoma, $10,489, and crushed gravel resurfacing 6,500 cu.yd. State Rd. 2, Douglas Co., to Chenault & Wagner, 331 Couch St., Portland, Ore., $8,951. Grand total $88,981.

Wash., Walla Walla — Comrs. Walla Walla Co. will grade and 7 in. crushed rock surfacing 6,427 cu.yd. Harry Shaw Rd., by day labor. $25,540. L. O. Kennedy, Walla Walla, engr.

Oregon—State Hy. Dept., Salem, grading and concrete paving 6.86 mi. George Ranch-Deer Creek Sect. Redwood Highway, Josephine Co., to E. McNutt, Eugene, $69,325.

Calif., Alhambra—To Curtis Paving Co., 2440 East 26th St., Los Angeles, improving portions of 8th St., 9,414 cu.yd. grade $0.50, asphaltic concrete paving $0.16 per sq.ft., etc., total $26,165.

Calif., Brawley—City Trustees, 6 in. concrete paving 119,997 sq.ft. K St., to B. Noble, Spreckels Bldg., San Diego, $37,-566. Noted Feb. 11.

Calif., Compton—Improving Belle, Pearl, Van Ness Aves., etc., 72,260 sq.ft. walks, 14,151 ft. curbing, 263,601 sq.ft. grading, 263,601 sq.ft. 5 in. concrete paving, etc., to V. Kovacevich, 1553 Loma Ave., Long Beach, $74,565.

Calif., Hermosa Beach — Improving Camino Real between 14th St. and Pier Ave., 290,840 sq.ft. concrete paving, 400 lin. ft. concrete curbing, etc., to H. Wigman, 1095 Summit St., $63,065. Noted Jan. 21.

Calif., La Mesa—Grading and 5 in. concrete paving 5,600 ft. Chollas Rd. (University Ave. extension) 30 ft., to D. H. Ryan 1615 Fern St., San Diego, $42,156. Noted Feb. 4.

Calif., Los Angeles—Curbing, walks and concrete paving, etc., La Cienga Blvd. between Pico Blvd. and Airdome St., to O. U. Miracle, 227 Ave. D, Redondo Beach, $33,775.

Calif., Oakland—E. K. Sturgis, city clk., grading and warrenite bituminous paving, etc., 478,787 sq.ft. Peralta St. between 7th St. and north city limits, to Oakland Paving Co., 5000 Bway. Noted Feb. 25.

Calif., Sacramento — Sacramento Co., grading and rock surfacing 12,000 cu.yd. Joint Highway Dist. 4, to W. Moreing, Harris Bldg., Stockton, $38,650. Noted Feb. 25.

Calif., San Diego — Common Council, grading and paving Kettner Blvd., Spruce, Winder, Laurel and Pierce Sts., to Hazard Contg. Co., 2548 Kettner Blvd., $100,067. Noted Jan. 28.

Calif., San Diego—San Diego Co., 5 in. concrete, paving 27,736 sq.yd. Chollas Rd. (University Ave. extension), to R. E. Hazzard Contg. Co., 2548 Kettner Blvd., $51,689.

Calif., San Rafael—Supervs. Marin Co., grading approximately 9 mi. Fairfax-Alpine Rd., to F. C. Cuffer, Masonic Bldg., $61,000. Owner will furnish culverts. Noted Feb. 25.

Ont., Toronto — City will repair with asphalt, concrete, macadam and gravel various roads during 1926, by day labor. $796,073. R. C. Harris, City Hall, engr.

Buildings—Commercial

PROPOSED WORK

Mass., Allston (Boston P. O.)—WAREHOUSE—Pittsburg Plate Glass Co., 99 Portland St., Boston, soon lets contract 3 story and basement, 125 x 200 ft., rein.-con., Babcock St., here. $250,000. Densmore, LeClear & Robbins Co., Park Sq. Bldg., Boston, archts.

Mass., Amherst — THEATRE — Lawler Bros., Greenfield, plans 2 story and basement, brick and steel, Amity and Pleasant Sts., here. $150,000. Engineer and architect not selected.

Mass., Boston—OFFICE—Salada Tea Co. having plans prepared by Densmore, LeClear & Robbins, 31 St. James St., 9 story and basement, 80 x 160 ft., brick, stone and steel addition, Stuart St. $700,000.

Mass., Fall River—HOSPITAL—Truesdale Hospital, P. E. Truesdale, dir., plans 3 story and basement, 45 x 130 ft., brick, steel and concrete addition. $500,000.

Mass., Spencer—TOWN HALL—Plans rebuilding 3 or 4 story and basement town hall, recently destroyed by fire. $150,000-$200,000.

Conn., Hartford—THEATRE—D. Weinstock, 22 Girard Ave., having plans prepared by E. T. Wiley, 75 Pratt St., 2 story and basement, brick, steel and stone, State St. $150,000. Noted Jan. 7.

Conn., New Britain—BANK—Fidelity Finance Corp., 87 West Main St., J. M. Chernoff, pres., plans brick and steel, West Main St. $150,000. Engineer and architect not selected.

N. Y., Albany — BANK and OFFICE — New York State Natl. Bank, 65 State St., having plans prepared by H. I. Cobb, engr. and archt., 1465 Bway., New York City, brick, steel and stone, plain foundation, State St. $1,000,000.

N. Y., Bay Shore — THEATRE — M. Glynne, c/o Rialto Theatre, Patchogue, having plans prepared by G. A. Sandblom, engr. and archt., 145 West 45th St., New York City, brick, steel and stone, plain foundation, Montauk Highway. $250,000.

N. Y., Mt. Vernon — OFFICE — Westchester Lighting Co., South 1st Ave., F. A. Stratton, pres., having plans prepared by B. S. King, engr. and archt., 18 East 41st St., New York City, 10 story, brick, steel and stone, plain foundation, 1st Ave. $1,000,000. Noted Jan. 7.

N. Y., New York—APARTMENT—Vario Realty Corp., c/o Moore & Landsseidel, engrs. and archts., 148th St. and 3rd Ave. having plans prepared 5 story, brick, steel and stone, plain foundation, 229th St. and Sedgewick Ave. $175,000.

N. Y., New York — APARTMENT — Schwartz & Rosenberg, c/o Gronenberg & Leuchtag, engrs. and archts., 450 4th Ave., having plans prepared 15 story, brick, steel and stone, plain foundation, West 81st St. $750,000.

N. Y., New York—APARTMENT—One Thousand Eight Hundred Sixty-One University Ave. Corp., c/o Gronenberg & Leuchtag, engrs. and archts., 450 4th Ave., having plans prepared 15 story, 100 x 162 ft., brick, steel and stone, plain foundation, 25-31 West 81st St. $750,000.

N. Y., New York—CLUBHOUSE—Pan Hellenic Assn., H. B. Hepburn, chm., 626 Park Ave., having plans prepared by firm of Donn Barber, engrs. and archts., 101 Park Ave., 20 story, brick, steel and stone, plain foundation, 1st Ave. and 49th St.

N. Y., New York—HOSPITAL—St. Elizabeth Hospital, 415 West 51st St., soon lets contract 6 story, 120 x 200 ft., brick, steel and stone, plain foundation, Fort Washington Ave. $800,000. O'Connor, Delaney & Schultz, 162 East 37th St., engrs. and archts. Noted Jan. 7.

N. Y., New York—OFFICE—New York Central R.R. Co., 446 Lexington Ave., having plans prepared by Warren & Wetmore, 10 East 47th St., 35 story, 85 x 170 ft., brick, steel and stone, plain foundation, Park Ave. from 45th to 46th Sts. $16,000,000. H. G. Kittredge, 446 Lexington Ave., ch. engr.

N. J., Atlantic City — HOTEL and RESTAURANT — Childs Co., 200 5th Ave., New York City, having plans prepared by G. B. Post & Sons, engrs. and archts., 101 Park Ave., New York City, 18 story, brick, steel and stone, plain foundation, Boardwalk and Carolina Ave., here. $2,500,000.

N. J., Jersey City—CLUBHOUSE—Order of Odd Fellows, c/o Dodge & Morrison, engrs. and archts., 160 Pearl St., New York City, plans brick, steel and stone, plain foundation, Bergen Sq.

N. J., Perth Amboy—HOSPITAL—City plans enlarging hospital. $200,000. S. Riddlestorffer, pres.

Pa., Phila.—THEATRE—Stanley Co. of America, 1916 Race St., having plans prepared by Hoffman-Henon Co., Finance Bldg., 1 story and basement, 120 x 150 ft. theatre, Kensington and Cumberland Sts.

Pa., Phila.—THEATRE—Stanley Co. of America, 1916 Race St., having plans prepared by Hoffman-Henon Co., Finance Bldg., theatre, Broad and Erie Sts.

Pa., Phila. — THEATRE, STORE and SALES—Brown & Sons, 145 Fairmount Ave., having plans prepared by I. W. Levin, 1011 Chestnut St., theatre, store, sales service, etc., 47th St., Baltimore and Warrington Aves. $1,000,000.

Md., Point Lookout — HOTEL — Point Lookout Corp., having plans prepared by Milburn, Heister & Co., Union Savings Bank, Wash., D. C., for hotel. $200,000.

Ga., Decatur—HOTEL—Hotel Committee, J. H. Green, pres., plans granite hotel. $200,000.

Fla., Sarasota—OFFICE—O. Neesoig, 307 West Johnson St., Madison, Wis., purchased site and plans brick, steel and rein.-con., plain foundation, Central Ave., here. $150,000. Engineer and architect not selected.

Fla., Tampa — CLUB — Tampa Y.W.C.A. A. K. Dickinson, pres. plans to raise $750,000, 9½ story building, incl. gymnasium, swimming pool, office space, etc. in downtown section. M. I. Manley, 303 Brickell Ave., Miami, archt. Noted Feb. 11.

Fla., West Palm Beach—APARTMENT—Ocean & Lake Realty Co., Palm Beach, plans 3 story, 86 x 86 ft., steel and tile, Royal Palm Way, here. $200,000. Addison Mizner, Boca Raton Developers, Miami, archt.

Miss., Biloxi — HOTEL — See "Unclassified."

Miss., Jackson—STATION—Illinois Central R.R. Co., 135 East 11th Pl., Chicago, Ill., having preliminary plans prepared 2 story and basement, rein.-con., brick, stone and tile station, here. $250,000. F. L. Judd, engr. of buildings. This corrects report in Feb. 18 issue.

Miss., McComb — OFFICE — X. A. Kramer having plans prepared by C. H. Lindsley, Lamar Life Bldg., Jackson. 7 story, 100 x 200 ft., rein.-con., brick and stone, Main and Front Sts.

Miss., Meridian—HOTEL—Meyers Bros., S. Meyers, pres., soon takes bids 10 or 11 story, 75 x 100 ft., rein.-con., brick and stone, 21st Ave. and 5th St. P. J. Krouse, Meridian, archt.

La., Alexandria — MEMORIAL — Amer. Legion of Honor, C. E. Barrow, commander, plans raising funds war memorial at Bolton High School.

La., Lafayette — COURT HOUSE — Lafayette Parish Police Jury having plans prepared by W. T. Nolan, 1,026 Canal-Com-

See proposal advertisements on page 151, Advertising Section.

Buildings—Commercial (Continued)

mercial Bldg., New Orleans, courthouse. $300,000. Noted Jan. 21.

Tenn., Bristol—HOTEL—J. A. and W. R. Stone, plan General Shelby Hotel, 8 story and basement, Front and Cumberland Sts. $500,000.

Tenn., Knoxville—LODGE—B. P. O. E. Fraternity, State St., purchased site and plans lodge, Gay St. $150,000.

Tenn., Memphis—OFFICE and STORE—C. F. Farnsworth, 1st Natl. Bank Bldg., having plans prepared by E. L. Harrisson, U & P Bank Bldg., and takes bids in fall, 12 story, modern office and store building, South Main St. and Union Ave.

Tenn., Murfreesboro—HOSPITAL—City, Rutherford Co. and endowment, S. B. Christy, chn., take bids about Mar. 15, concrete, brick and stone hospital. $150,000. Berlin & Swern, 19 South La Salle St., Chicago, Ill., archts. Noted Feb. 4.

Tenn., Nashville — GARAGE — Marr & Holman, archts., Stahlman Bldg., preparing preliminary plans four 3 story, rein.-con., brick and stone garages in business section. $500,000. Owner's name withheld.

Tenn., Nashville—GARAGE—O. F. Noel Estate, Noel Blk., having plans prepared by Hart, Nevens, Freeland & Roberts, engrs. and archts., Independent Life Bldg., 5 story, 550 car capacity, concrete and brick, 3rd and Church Sts. To exceed $150,000.

O., Akron—OFFICE and GARAGE—W. F. Peters, dir. Pub. Wks., soon takes bids 1 and 2 story, 156 x 280 ft., brick and steel, plain foundation, Johnston St., for City. $150,000. Good & Wagner, Mohawk Bldg., archts. M. P. Tucker, Municipal Bldg., engr.

O., Cleveland—INSTITUTIONAL—Y. M. C. A., c/o F. W. Ramsey, pres., East 22nd St. and Prospect Ave., having surveys made by Hubbell & Benes, archts. and engrs., 4500 Euclid Ave., engrs. and archts., brick, steel and concrete building. $4,000,000.

O., Columbus — BANK and OFFICE — Buckeye State Building & Loan Assn., 22 West Gay St., having plans prepared by Hopkins & Dentz, 415 Lexington Ave., New York City, 13 story and 2 basements, 95 x 187½ ft., brick, steel and concrete, East Gay St. $850,000.

O., Columbus—STORAGE and GARAGE—J. E. McCrehen, 880 East Broad St., having plans prepared by Richards, McCarty & Bulfard, 684 East Broad St., 3 story and basement, 100 x 100 ft., brick, steel and concrete, South 4th St. $200,000.

O., Columbus—STORE and OFFICE—R. G. Hanford, (owner and archt.), 681 East Broad St., making plans 4 story and basement, 53 x 140 ft., brick, concrete and stone, 683 East Broad St. $175,000.

O., Columbus — THEATRE — James Theatre Enterprises, 39 West Broad St., having plans prepared by C. H. Crane, 542 Griswold St., Detroit, Mich., 9 story and basement, 115 x 167 ft., concrete, steel and terra cotta, High St. $250,000.

O., Portsmouth—STORE—Steahly Dry Goods Co. having plans prepared 5 story and basement, 30½ x 100 ft., brick, steel and concrete, 4th and Chillicothe Sts. $185,000.

Ind., Fort Wayne—THEATRE—Keenan Hotel Co. having plans prepared by C. R. Weatherhogg, 250 West Wayne St., 4 story and basement, 150 x 185 ft., brick, steel and rein.-con. vaudeville and motion picture theatre, 3,100 seating capacity. $1,000,000.

Mich., Battle Creek—EXCHANGE and GARAGE — Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., Detroit, take bids about Mar. 8, 3 story and basement, rein.-con., brick and steel, plain foundation, for Michigan Bell Telephone Co., Cass Ave., Detroit. $150,000.

Ill., Chicago — HOTEL — Syndicate, c/o E. J. Meles, archt., 105 West Monroe St., having plans prepared and takes bids about Apr. 26, 9 story and basement, 100 x 100 ft., rein.-con., brick and terra cotta, Clarendon Ave. and Gordon Terrace. F. A. Randall, 160 North La Salle St., engr.

Ill., Chicago — HOTEL — Rissman & Hirschfeld, archts., 64 West Randolph St., takes bids in March, 14 story and basement, 107½ x 200 ft., rein.-con., brick, stone and terra cotta, Walton Pl. near North Michigan Ave., for Davis Hotel Corp., 831 Wilson Ave. Total $3,000,000. Noted Dec. 17.

Ill., Evanston—HOTEL—A. E. Johnson & Co., Main and Maple Aves., having plans prepared by Ronneberg & Pierce, 10 South La Salle St., Chicago, 7 story, 75 x 180 ft., rein.-con., brick and stone addition.

Wis., Baraboo—HOTEL—Warren Hotel, c/o L. H. Hill, proprietor, having plans prepared by O. J. and R. E. Sorenson, 226 Main St.; La Crosse, 4 story and basement, 50 x 75 ft., rein.-con., brick and steel hotel. Noted Jan. 21.

Wis., La Crosse—DEPOT—Chicago, Milwaukee & St. Paul R.R. Co., Canal and Adams Sts., Chicago, Ill., plans rebuilding depot, here, recently destroyed by fire. $350,000. Architect not selected. C. F. Loweth, ch. engr.

Wis., Milwaukee—APARTMENT—C. J. Keller & Son, archts., 432 Bway., prepared plans 3 story and basement, 48 x 128 ft., brick and timber, plain foundation, Cedar St., and taking bids on excavation for same, for Cedar St. Realty Co., c/o architects. $150,000. Noted Dec. 17.

Wis., Milwaukee—BUSINESS and RECREATION—Recreation Co., c/o E. G. Schroeder Co., archts., 405 Bway., having sketches made 2 story and basement, rein.-con., brick and terra cotta, plain foundation, North Ave. $150,000.

Wis., Milwaukee—CLUBHOUSE—Beth-El Mens Club, I. Brossell, pres., 585 Maryland Ave., plans 2 story and basement, brick and concrete, plain foundation, 49th St. $150,000. Engineer and architect not selected.

Wis., Wales—INFIRMARY—State Bd. Control, J. Hannan, pres., State Capitol, Madison, having plans prepared by A. Peabody, state archt., Madison, rein.-con., brick and steel infirmary. $250,000. Noted Jan. 28.

Ia., Davenport—SANITARIUM—Beuttler & Arnold, archt., Sioux City and E. G. Holbrook, associated archt., Masonic Temple Bldg., soon lets contract altering and constructing 3 story and basement, 38 x 165 ft. and 44 x 101 ft. rein.-con. and brick additions, plain foundation, for Masonic Grand Lodge of Iowa. $150,000. Noted Nov. 12.

Ia., Iowa City—DEPARTMENT STORE—Davidson Bros. plans 8 or 10 story, 80 x 160 ft. department store. $1,250,000. Engineer and architect not selected.

Minn., Red Wing—COURT HOUSE—Goodhue Co., c/o H. Meyer, aud., plans 3 story and basement court house. $200,000.

Neb., Hastings—HOTEL—R. E. Bryant plans 4 story and basement, 125 x 154 ft. hotel. $20,000. Engineers and archt. not selected.

Neb., Lincoln — BUSINESS — Spelers Clothing Co., 10th and O Sts., had plans prepared by Davis & Wilson, 525 South 13th St., 4 story and basement, 50 x 134 ft., brick and terra cotta business building.

Neb., Omaha — MEMORIAL — Omaha War Memorial Society, J. L. Webster, chn., plans brick and stone memorial in Elmwood Park. $500,000.

Neb., Omaha — OFFICE — Metropolitan Utilities Dist., T. A. Leisen, mgr. and engr., City Hall, having plans prepared by G. B. Prinz, Omaha Natl. Bank Bldg., 4 story and basement, 68 x 136 ft., rein.-con. and brick, 18th and Harney Sts. $275,000. Noted Jan. 21.

S. D., Rapid City—HOTEL and LODGE—Eitel, Inc. (R. J. and M. Eitel), Madison Ave. and Canal St., Chicago, Ill., having plans prepared by L. Guenzel, 879 North State St., Chicago, Ill., 7 story and basement rein.-con., brick and stone, here. $700,000.

S. D., Tyndall — HOSPITAL — Sacred Heart Hospital plans 100 room hospital addition. $225,000.

N. D., Linton—COURT HOUSE—Emmons Co., A. T. Atha, aud., plans 3 story and basement, rein.-con. and brick court house. $150,000.

Mo., Farmington—COURT HOUSE—St. Francois Co. takes bids about Mar. 15, 3 story and basement, 96 x 96 ft., rein.-con., brick and stone court house. $250,000. Howard & Finley, International Life Bldg., St. Louis, archts. Noted Jan. 14.

Mo., Independence—COURT HOUSE—Jackson Co. plans election $225,000 bonds, court house.

Mo., Kansas City—OFFICE—See "Buildings—Industrial."

Mo., Kansas City—HOTEL—E. Thompson & R. Rodgers, Amarillo, Tex., having plans prepared by Sheppard & Wiser, 1208 R. A. Long Bldg., Amarillo Hotel, 11 story and basement, 48 x 76 ft., rein.-con., brick and stone, here. $300,000.

Mo., Kansas City—THEATRE—J. C. Nichols Investment Co. having plans prepared by Boller Bros., 114 West 10th St., 2 and 3 story, brick, steel, concrete and terra cotta theatre and business building. $150,000.

Mo., Kansas City—WAREHOUSE—The (Great) Atlantic & Pacific Tea Co., 818 Summer Ave., Newark, N. J., purchased site and plans warehouse 80,000 sq.ft. floor space, 20th and Cherry Sts., here.

Mo., St. Louis — REFECTORY and LOCKER—Bd. Pub. Serv., 208 City Hall, having plans prepared by H. E. George, Division Parks & Recreation, and takes bids about June 1, 1 story and basement, 94 x 230 ft., rein.-con. and brick refectory and locker, etc., Forest Park. $150,000.

Mo., St. Louis — SERVICE — Bd. Pub. Serv., 208 City Hall, takes bids in April, 3 story, rein.-con. and brick, incl. 200 ft. smoke stack and power plant, etc., 12th and Clark Sts. $750,000. Study & Farrar, Arcade Bldg., archts.

Tex., Amarillo—HOTEL—E. Thompson & R. Rogers, having plans prepared by Shepard & Wiser, R. A. Long Bldg., Kansas City, Mo., 11 story and basement, 48 x 76 ft., rein.-con., brick and stone hotel. $300,000.

Tex., Brownsville — BUSINESS — J. L. Mendlewitz & Associates plan 6 story and part basement, rein.-con. and brick, plain foundation. $150,000. Engineer and architect selected soon.

Tex., Brownsville — HOTEL — Hotel El Jardin Co., c/o J. N. Nix, c/o Lanier Hotel, San Antonio, and A. D. Dickinson & L. James, Brownsville, having preliminary plans prepared by Kelwood Co., archts. and engrs., c/o Travis Bldg., San Antonio, 7 story and basement, rein.-con., brick, tile and stone addition, plain foundation. $300,000.

Tex., Corpus Christi — BANK and OFFICE — Texas State Bank & Trust Co., J. E. Garrett, pres., having preliminary plans prepared 12 story and basement, 50 x 150 ft., rein.-con., brick and stone, plain foundation. $750,000. Private plans.

Tex., Corpus Christi — HOTEL — H. C. Wood & associates, c/o Travis Bldg., San Antonio, had plans prepared by Kelwood Co., c/o Travis Bldg., San Antonio, and takes bids after Mar. 10, 6 story and basement, rein.-con., tile and stucco hotel, here. $300,000.

Tex., Dallas — BANK and OFFICE — Dallas Natl. Bank, c/o J. D. Gillespie, vice-pres., having preliminary plans prepared by C. D. Hill & Co., 2006 Republic Natl. Bank Bldg., 15 story and basement, rein.-con., brick, steel and stone, Main St. $800,000.

Tex., Kerrville—HOTEL—R. L. Burney (promoter), c/o Walsh & Burney, 929 North Flores St., San Antonio, plans 6 story and basement, rein.-con. brick and stone, plain foundation, here. $200,000. Engineer and architect selected soon.

Tex., Levelland—COURTHOUSE—Hockley Co. plans election soon $200,000 bonds, 3 story, concrete courthouse. J. R. Evans, Levelland, co. judge.

Tex., Mineral Wells — HOTEL and PAVILION — Crazy Water Co., c/o S. Webb, pres., having plans prepared by Withers & Merrell, 104½ Oak St., Dallas, 125 room, brick, stone and rein.-con. hotel and pavilion. $300,000.

Tex., San Antonio — HOTEL — H. B. Rouse & Co., 2214 Ward St., Chicago, Ill., having preliminary surveys, etc. made 12 story, brick and stone, plain foundation, here. $1,000,000. Private plans.

Tex., Vernon—HOTEL—E. O. Thompson, Memphis, having plans prepared, Shephard & Wiser, 1208 R. A. Long Bldg., Kansas City, Mo., 5 story and basement, 75 x 140 ft., rein.-con. and brick hotel. To exceed $150,000. Noted Feb. 11.

Okla., Durant—HOTEL—R. T. Storey plans 80 room hotel. $250,000. Engineer and architect not selected.

Wash., Seattle — HOTEL — C. Linde, archt., Seaboard Bldg., takes bids about July 1, 12 story and basement, 120 x 120 ft., rein.-con., brick and terra cotta, 9th and Pine Sts. $1,500,000. Owner's name withheld.

Wash., Seattle—OFFICE—H. Bittman, archt., Securities Bldg., takes bids about Mar. 15, 2 story (ultimately 8 story), 111 x 120 ft., rein.-con., stone and steel, 3rd and Union Sts., for E. L. Mann, c/o architect. $200,000.

Ore., Portland — APARTMENT — E. B. Hallwork, Northwest Natl. Bank Bldg., having plans prepared by J. H. Grant, Br. Trade Bldg., 4 story, 95 x 110 ft., concrete, East 20th and Madison Sts. $200,000.

Ore., Portland — BANK — Northwestern Natl. Bank Bldg., 6th and Morrison Sts., E. Olmsted, pres., having preliminary plans prepared by H. Westcott, Spokane, Wash., for bank addition. $175,000.

Ore., Portland — CITY HALL — H. E. Plummer, city comr., submitted preliminary plans for addition to City Hall. $845,000.

Calif., Boyes Springs—HOTEL—Sonoma Properties Co., c/o J. L. Stewart, archt., Spreckels Bldg., San Francisco, had plans prepared rein.-con. hotel, here. To exceed $150,000.

Calif., Burbank — STUDIO — First Natl. Pictures, Inc., c/o Austin Co., California, archts., 777 East Washington St., Los Angeles, having plans prepared motion picture studio, incl. power plant, garages, cottages, shops, etc., approximately 40 buildings in all. $500,000 or more.

See proposal advertisements on page 151, Advertising Section.

Buildings—Commercial (Continued)

Calif., Fresno—HOSPITAL and OFFICE—G. Sclaroni, Pacific Southwest Bldg., plans 2 or more story, rein.-con., Calaveras and Van Ness Ave. $150,000.

Calif., Long Beach — APARTMENT — E. Eastman, c/o H. R. Davies, archt., Farmers & Merchants Bldg., had plans prepared 12 story and basement, fireproof, East Ocean Blvd. To exceed $150,000.

Calif., Long Beach—CLUB and HOTEL—Seaside Commercial Club & Hotel having plans prepared by L. A. Smith, Film Exch. Bldg., Los Angeles, 8 story and basement, 120 x 165 ft., rein.-con., East Ocean Blvd. To exceed $250,000.

Calif., Los Angeles—HOTEL and STAGE DEPOT—Pickwick Stage Co., 6th and Los Angeles Sts., plans 8 story, 80 x 150 ft. with 6 story addition to structure at present adjoining site, 6th St. and Maple Ave. Engineer and architect not selected.

Calif., Los Angeles—LOFT—L. Conrad, et al, 940 South Western St., having plans prepared by S. C. Lee, 530 Pet. Sec. Bldg., 13 story and basement, 55 x 125 ft., concrete and terra cotta, 8th and Santee Sts. $500,000.

Calif., Los Angeles—LOFT—M. R. Gray, c/o Morgan, Walls & Clements, archts., Van Nuys Bldg., having plans prepared 5 story (ultimately 12 story) and basement, 65 x 130 ft., rein.-con., South Los Angeles St.

Calif., Los Angeles — LODGE, OFFICE and STORE—Golden West Lodge 86, I. B. P. O. E. of W. O. plans 3 story and basement, brick, Central Ave. $150,000. P. R. Williams, Stock Exch. Bldg., archts.

Calif., Los Angeles—STORE and LOFT—L. Conrad, et al., c/o S. C. Lee, archt., Petroleum Securities Bldg., having plans prepared 13 story and basement, 55 x 125 ft., rein.-con., 8th and Santee Sts. To exceed $250,000. Noted Dec. 3.

Calif., Los Angeles — STORE and OFFICE—Dodd & Richards, archts., Brack-Shops Bldg., making plans 12 story and basement, 60 x 160 ft., 5th and Figueroa Sts. To exceed $750,000. Owner's name withheld.

Calif., Oakland — HOSPITAL — Hillcrest Hospital Corp., c/o Reed & Corlett, archts., Bank of Savings Bldg., having plans prepared 8 story and basement, steel and rein.-con., Orchard St. near Summit St. $500,000.

Calif., Oakland — HOTEL—Co-Operative Realty Co., c/o V. W. Houghton, archt., 275 Post St., San Francisco, having preliminary plans prepared 6 story and basement, steel and concrete, 21st and San Pablo Sts. $250,000 or more.

Calif., Oakland—JAIL—Alameda Co. plans fireproof annex, 5th and Washington Sts. $150,000. H. H. Meyers, Kohl Bldg., San Francisco, archt.

Calif., Pasadena — LODGE — Masonic Lodges of Pasadena, plans fireproof lodge. $250,000 or more.

Calif., San Diego—CLUB—Y. W. C. A. of San Diego, had plans prepared by C. E. Decker & F. W. Stevenson, 645 Spreckels Bldg., 5 story and basement, 100 x 150 ft., rein.-con., 11th and C Sts. $300,000.

Calif., San Diego—STORE—H. Perry had plans prepared by T. Fitzhue, 401 West Ave. 50, 6 story, 100 x 100 ft., rein.-con., 4th and B Sts. $250,000. H. L. Benbough, lessee for 20 years.

Calif., San Francisco — APARTMENT — J. Greenback, et al, Hearst Bldg., having plans prepared by C. O. Clausen, Hearst Bldg., 15 story and basement, rein.-con. and steel, Geary St. near Hyde St. $325,000.

Calif., San Francisco—APARTMENT—Quandt & Bros., archts., Humboldt Bank Bldg., preparing preliminary plans, 6 story, basement and sub-basement, rein.-con., Union and Leavenworth Sts. $200,000. Owners name withheld.

Calif., San Francisco — FACTORY and WAREHOUSE — See "Buildings — Industrial."

Calif., San Francisco — HOTEL — Y. M. C. A., Leavenworth and Golden Gate Ave., having plans prepared by F. H. Meyer, 742 Market St., 16 story and basement, Turk St. near Leavenworth St. $800,000.

Calif., San Francisco — OFFICE — San Francisco Builders Exch., W. H. George, pres., 180 Jessie St., purchased site and plans approximately 12 story and basement, 80 x 120 ft., Class A construction, Mission and New Montgomery Sts. $750,000. Engineer and architect not selected.

Calif., San Jose — OFFICE — Local Physicians & Surgeons, c/o M. Hopkins, 485 South 16th St., plans fireproof office building. To exceed $150,000.

Calif., San Jose—TEMPLE—San Jose Labor Temple Assn., A. W. Crawford, secy., plans fireproof labor temple. $150,000. Engineer and architect not selected.

Calif., San Pedro—LODGE—San Pedro Lodge 136, Knights of Pythias, plans 3 story and basement, 50 x 140 ft., brick, Pacific Ave.

Que., Three Rivers — HOSPITAL — Le Corporation de l'Hospital Cook, P. Bique, pres., having plans prepared by Asselin & Deunienut, Three Rivers, for hospital. $150,000. $100,000 fund appropriated.

Ont., Hamilton—APARTMENT—Godson Building Co., 435 Parkside Dr., Toronto, plans 5 story, brick, tile, stone and steel, plain foundation, James St. S. $175,000. Private plans.

Ont., Hamilton—MAUSOLEUM—Canada Mausoleums Ltd., Metropolitan Bldg., Toronto, having plans prepared by Cameron & Ralston, Bartlett Bldg., Windsor, stone, steel and marble, Woodland Cemetery, here. $250,000.

Ont., Ottawa—LIVE STOCK—Bd. Control having plans prepared by Burritt & Hazelgrove, Hope Bldg., Sparks St., and soon takes bids brick or stone, and steel, plain foundation, Bank St. $225,000. Noted Feb. 11.

Ont., Toronto—OFFICE—Federal Building Corp., 85 Richmond St., having plans prepared by Chapman & Oxley, Northern Ontario Bldg., 11 story and basement, 75 x 85 ft., rein.-con. and brick, plain foundation, Bay and Albert Sts. $500,000. Noted Feb. 18.

Ont., Walkerville — HOSPITAL — Essex Border Utilities Comn., Murray Bldg., Windsor, having plans prepared by Pennington & Boyde, Bartlett Bldg., Windsor and Stevens & Lee, 62 Charles St., Toronto, 3 story, rein.-con., brick and steel, plain foundation. $500,000. Noted Jan. 21.

Man., Winnipeg—GARAGE—T. Eaton Co., Ltd., Toronto, Ont., takes bids about Mar. 15, 4 story and basement, 100 x 120 ft., concrete, brick and steel, 255-57 Carlton St., here. J. Woodman, 408 Great West Permanent Loan Bldg., archt.

Man., Winnipeg—HOSPITAL—Sisters of Misericorde, Sherbrooke and Wolseley Sts., having plans prepared by Viau & Venne, 99 St. James St., Montreal, 3 story, basement, and sub-basement, 46 x 150 ft., and 46 x 205 ft., rein.-con., brick and stone addition. $175,000.

T. H., Honolulu—Y. M. C. A., 347 Madison Ave., New York City, N. Y., having plans prepared by L. Rodgers, 533 Spreckels Bldg., San Diego, Calif., 5 story, 176 x 250 ft., Y. M. C. A., here. $650,000.

B. C., Vancouver—APARTMENT HOTEL—Georgia Hotel, c/o G. S. Harrison Co., Seymour and Pender Sts., having plans prepared 10 or 12 story, 120 x 150 ft., rein.-con., brick and steel, Georgia and Howe Sts. $1,000,000.

BIDS DESIRED

Mass., West Springfield (br. Springfield)—Mar. 20, by Y. M. C. A., 2 story, brick and steel addition. $150,000. L. R. Howes, 41 Keith St., Springfield, archt.

Conn., Norwich — SANATORIUM — Mar. 6, by State Hospital Comn., Hartford, F. M. Salmon, comptroller, 2 story and basement, 40 x 190 ft. brick and steel employes building, 2 story, 60 x 80 ft., stone and timber addition, and 1 story infirmary, here. $150,000. Noted Jan. 21.

N. Y., New York — APARTMENT — See "Contracts Awarded."

N. Y., New York—THEATRE—See "Contracts Awarded."

N. J., Plainfield—APARTMENT—Wigton-Abbott Corp., engrs. and contractors, 552 West 23rd St., New York City, taking sub bids 4 story apartment, Crescent Ave. and East 7th St., here, for One Hundred Sixty-Five Crescent Ave. Corp., 552 West 23rd St., New York City. Simpson & Rolston, Newark, archts.

N. J., Trenton—HOSPITAL, etc.—Mar. 12, by Bd. Institutions & Agencies, W. J. Ellis, acting comr., State Office Bldg., group 6 hospital buildings, etc. at New Jersey State Hospital, here. $742,000. Former bids rejected. Noted Feb. 18.

Pa., Phila.—STORE—Mar. 7, by J. G. McCrory Co., 919 Market St., 8 story and basement, 50 x 125 ft., rein.-con., brick and steel, plain foundation. $500,000. Constr. Dept. of J. G. McCrory Co., 1107 Bway., New York City, N. Y., archts.

Pa., Williamsport—LODGE—Mar. 15, by H. R. Davis, chn. Building Com. B. P. O. E. Lodge 173. 3 story and basement, 60 x 192 ft., rein.-con., brick and Indiana limestone, 4th and State Sts. $350,000. Noted Feb. 4.

Md., Catonsville (br. Baltimore)—HOSPITAL—Mar. 18, H. P. Hopkins & A. Burton, archts., 347 North Charles St., Baltimore, 4 story and basement, 50 x 115 ft., stone, plain foundation wing to Foster Clinic, at Spring Grove Hospital, here. $150,000. Noted Oct. 15.

Ala., Anniston—OFFICE—Mar. 25, by L. B. Liles, 10 story, 100 x 150 ft., rein.-con., 10th and Noble Sts., for L. B. Liles, et al. $500,000. Warren, Knight & Davis, Empire Blk., Birmingham, archt.

Miss., Gulfport — BANK and OFFICE — Apr. 1, by Bank of Gulfport, 48 x 75 ft., rein.-con., brick and terra cotta, 10½ ft. high, 14th St. and 25th Ave. $125,000-$150,000. N. W. Overstreet, Overstreet Bldg., Jackson, archt. Noted Feb. 11.

O., Cleveland — COMMERCIAL and APARTMENT — One Hundred Thirtieth Buckeye Co., and A. F. Janowitz, archt., 811 Prospect Ave., taking bids 3 story and basement, 67 x 140 ft., brick, East 130th St. and Buckeye Rd. $150,000.

O., Cleveland Heights (Warrensville P. O.) — COMMERCIAL, THEATRE and APARTMENT—W. T. Arnos, 402 Engineers Bldg., Cleveland, and J. F. Steffens, archt., Fidelity-Mortgage Bldg., Cleveland, taking bids 3 story and basement, 100 x 176 ft., brick, steel and concrete, Green Rd. $200,000.

Ind., Seymour—BANK—Mar. 9, by First Natl. Bank, 2 story and basement, 40 x 132 ft. bank. $150,000. McGuire & Shook, Pythian Bldg., Indianapolis, archts. Noted Jan. 21.

Mich., Detroit—OFFICE—Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., taking bids 4 story, 100 x 100 ft., rein.-con., brick and steel, Clifford St., for Detroit City Gas Co., 415 Clifford St. $175,000. Noted Feb. 18.

Mich., Detroit—OFFICE and BANK—Detroit Trust Co., West Fort St., taking bids 1 story, basement and mezzanine, 100 x 138 ft., rein.-con., brick, stone and steel, plain foundation, Fort St. A. Kahn, 1000 Marquette Bldg., archt. $250,000. Noted Jan. 28.

Mich., Pontiac—HOSPITAL—Mar. 12, by W. Brewer, secy. Building Com. Oakland Co., 3 story and basement, brick, steel and stone, plain foundation. $300,000. F. D. Madison, Royal Oak, archt. Noted Jan. 28.

Ill., Chicago—APARTMENT—J. J. Jensen, archt., 1105 Lawrence Ave., taking bids 5 story and basement, 60 x 150 ft., rein.-con. and brick, 5324 Winthrop Ave., for Winthrop Building Corp., c/o architects. $300,000.

Ill., Chicago — THEATRE, STORE and APARTMENT — R. G. Wolff, archt., 410 North Michigan Ave., taking bids 3 story, 135 x 225 ft., brick and terra cotta, Irving Park Blvd. and Austin Ave., for Mitchell Bros., c/o architects. $750,000.

Wis., Milwaukee—THEATRE and BUSINESS—Mar. 13, by A. H. Kienappel, archt., 445 Milwaukee St., 2 story and basement, 60 x 90 ft., and 60 x 200 ft., rein.-con. and brick, plain foundation, 8th Ave., for A. H. Bartelt, 1350 8th Ave. $150,000.

Mo., Springfield—DEPOT—Mar. 8, by F. G. Jonah, ch. engr. St. Louis & San Francisco R.R. Co., Frisco Bldg., St. Louis, remodeling and constructing 2 story and basement, 77 x 247 ft. depot addition, here. $150,000. R. C. Stephens, Frisco Bldg., St. Louis, archt.

Mo., St. Louis—GARAGE—See "Contracts Awarded."

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles—HOSPITAL—Mar. 15, by Bd. Supervs. Los Angeles Co., five 1 story, approximately 35 x 165 ft., frame buildings, for infirmary section. To exceed $150,000. Noted July 2.

Calif., San Francisco—APARTMENT—See "Contracts Awarded."

Calif., Watsonville—HOTEL and STORE—W. H. Weeks, archt., 369 Pine St., San Francisco, taking bids 5 story and basement, rein.-con., Lake and Main Sts., here, for Resetar Bros. $250,000.

BIDS RECEIVED

Ind., Indianapolis — WAREHOUSE — Vonnegut Hardware Co., 120 East Washington St., Feb. 15, general contract 6 story and basement, 101 x 195 ft., brick, steel and rein.-con., from Service Constr. Co., Castle Hall Bldg., $207,852. Noted Feb. 11.

Mo., St. Louis — MORGUE — Bd. Pub. Serv., 208 City Hall, Feb. 16, 1 and 2 story and basement, 88 x 130 ft., rein.-con., brick and terra cotta, Clark Ave., from G. Griffiths Constr. Co., 705 Olive St., $204,543. Noted Jan. 21.

CONTRACTS AWARDED

Mass., Lynn — LODGE — Knights of Pythias, S. Parsons, 7 Conant Rd., Marblehead, 3 story and basement, 65 x 150 ft., brick and steel, Market St., here, to K. Swanson, 133 Euclid Ave. Archts. est. $300,000.

Conn., New Haven—TEMPLE—Masonic Temple Assn., W. A. Warner, chn. building com., 2 story and basement, 80 x 140 ft., Whitney Ave., to Larkin Carey Co., 166 Brewery St., about $400,000. Noted Feb. 25.

N. Y., New York—APARTMENT—High View Building Corp., c/o C. Kreymborg &

See proposal advertisements on page 151, Advertising Section.

Buildings—Commercial (Continued)

Son, engrs. and archts., 2534 Marion Ave., will build 6 story brick, steel and stone, plain foundation, Ogden Ave. and 162nd St., by day labor. $340,000.

N. Y., New York—APARTMENT—Jadore Constr. Co., c/o C. Kreymborg & Son, engrs. and archts., 2534 Marion Ave., will build 6 story, brick, steel and stone, plain foundation, Nelson Ave. by day labor. $215,000.

N. Y., New York—OFFICE—M. Natanson, 552 5th Ave., 22 story, brick, steel and stone, plain foundation, Bway. and 57th St., to G. Richard Davis, 30 East 42nd St. Archts. est. $6,000,000.

N. Y., New York—THEATRE—Feldshill Constr. Corp., c/o I. L. Cransman, engr. and archt., 370 East 149th St., will build brick, steel and stone, plain foundation, Webster Ave., by day labor. $175,000.

Pa., Fox Chase (Phila. P. O.)—HOSPITAL, etc.—Jeanes Memorial Hospital, c/o Heacock & Hokenson, archts., 1211 Chestnut St., Phila., 42 x 185 ft. hospital, with 40 x 43 ft. and 53 x 58 ft. wings, 53 x 100 ft. administration building, and 38 x 157 ft. nurses home, all 2½ story and basement, rein.-con., brick and steel, plain foundations, Filmore, Hartel, Shelmire and Hasbrook Sts., to R. E. Lamb Co., 843 North 19th St., Phila. Archts. est. $1,000,000. Noted May 28.

La., New Orleans—BANK and OFFICE—E. Weil, archt., Whitney Bldg., 18 story, granite and limestone, Baronne and Common Sts., to O. W. Gwin Constr. Co., Union Indemnity Bldg., for Canal Bank & Trust Co. About $4,000,000. Noted Jan. 21.

Tenn., Memphis—WAREHOUSE—Standard Sanitary Supply Co., Bessemer Bldg., 4 story, 70 x 270 ft., rein.-con., brick and steel, plain foundation, Beale Ave. and Southern Ry. tracks, to Kaucher, Hodges & Co., Shrine Bldg. Archts. est. $225,000.

O., Columbus — BANK and OFFICE — Buckeye State Building & Loan Assn., 22 West Gay St., 13 story and 2 basements, 95 x 187½ ft., terra cotta, stone and steel, East Gay St., to R. H. Evans & Co., Atlas Bldg., about $850,000. Noted Mar. 4.

O., Youngstown—GARAGE—J. H. Fitch Co., 304 Mahoning Bank Bldg., general contract garage, Phelps St., to Heller Bros. Co., Thurman and Rayen Aves., $200,000.

Ind., Indianapolis—GARAGE—Merchants Heat & Light Co., Washington and Meridian Sts., general contract garage and storage of records building, 200 cars capacity, to J. R. Curry Constr. Co., Lombard Bldg., 4400 North Meridian St., $120,000.

Mich., Detroit — ADMINISTRATION — Park Davis & Co., 2951 Atwater St., 4 story and basement, 85 x 100 ft., rein.-con., brick and steel, plain foundation, Jefferson Ave., to A. A. Albrecht Co., 1130 Penobscot Bldg. Archts. est. $150,000. Noted Feb. 4.

Mich., Detroit — GARAGE — Chevrolet Motor Car Co., 3044 West Grand Blvd., 3 story and basement, 150 x 150 ft., rein.-con., brick and steel, Amsterdam Ave., to Davis McGonigle Co., 1210 Buhl Bldg. Archts. est. $160,000. Noted Feb. 4.

Mich., Detroit—THEATRE—D. Nederlander, 11 Campus Martius, general contract 2 story and part basement, 115 x 165 ft., rein.-con., brick and steel, plain foundation, Six Mile Rd., to N. M. Lerner Constr. Co., 1107 Lafayette Bldg. Archts. est. $170,000.

Mich., Jackson — OFFICE — Consumers Power Co., 11 story and basement, 69 x 126 ft., and 50 x 133 ft., rein.-con. and brick, plain foundation, Main St., to H. L. Vander Horst, Kalamazoo. Noted Feb. 4.

Ill., Chicago—BANK—Columbia State Savings Bank, 5000 West Chicago Ave., general contract 2 story and basement, 50 x 125 ft., brick, marble and stone, 5146 West Chicago Ave., to A. Houston, 5946 West Division St. Noted Jan. 7.

Ill., Chicago — THEATRE, STORE, APARTMENT and OFFICE — Addison Southport Building Corp., general contract 4 story, 125 x 150 ft., rein.-con., brick and terra cotta, Addison St. and Southport Ave., to J. J. Redding & Co., 10 North Clark St. Archts. est. $750,000.

Ill., Fairmount City (mail East St. Louis)—CLUB—Fairmount Jockey Club, C. Bruce, genl. mgr., Hotel Jefferson, St. Louis, Mo., general contract 3 story, 80 x 200 ft., brick and steel, here, to W. H. Smith-Nelson Cunliff Co., 107 North 7th St., St. Louis, Mo. Archts. est. $150,000. Noted Feb. 11.

Ill., Waukegan—THEATRE, STORE and APARTMENT—W. G. Burnett general contract 3 story, 137 x 205 ft., rein.-con., brick and terra cotta, Genesee and Clayton Aves., to J. J. Redding & Co., 10 North Clark St., Chicago. Archts. est. $1,200,000.

Ia., Mason City—Y. M. C. A., C. H. MacNider, chn. building comn., general contract 3 story and basement, rein.-con., brick and stone, to Mason Constr. Co., 618 Natl. Bldg., Minneapolis, Minn., $172,250. Noted Feb. 18.

Ia., Newton—HOTEL—F. L. Maytag, 6 story, 66 x 133 ft., rein.-con. hotel, plain foundation, to Lanning Constr. Co., Oskaloosa, $208,000. Noted Oct. 29.

Neb., Omaha—THEATRE—A. H. Blank Theatre Co., 300 Commonwealth Bldg., Des Moines, Ia., general contract 3 story and basement, 132 x 205 ft., brick, 20th and Farnam Sts., to Seldon-Breck Co., Arthur Bldg. Archts. est. $1,000,000. Noted Jan. 28.

Mo., St. Louis—GARAGE—Burdeau Real Estate Co., 801 Chestnut St., will build 1 and 2 story, rein.-con. and brick, Iron St. and Missouri Pacific R.R. tracks, by day labor. $200,000. Peoples Motorbus Co., 2854 Chippewa St., lessee.

Mo., St. Louis—STORE and OFFICE—N. Pelligreen, 1123 Hodiamont Ave., 6 story and basement, 45 x 210 ft., rein.-con. and stone, Hodiamont and Easton Aves., to Pelligreen Constr. & Investment Co., 816 Pine St. Archts. est. $500,000.

Tex., Houston—HOTEL—Terminal Investment Co., c/o J. H. Crocker, 1202-10 State Natl. Bank Bldg., 10 story, 125 x 250 ft., rein.-con., brick and steel, Texas Ave. and Crawford St., to Southwestern Constr. Co., West Bldg., $750,000. Noted Jan. 21.

Tex., Houston — WAREHOUSE, etc. — Southern Pacific R.R., H. M. Lull, ch. engr., Southern Pacific Bldg., 2 story, 40 x 202 ft. head house and office, 45 x 1,080 ft. freight house, 1 story, 28 x 1,140 ft. outbound freight warehouse, 14 x 1,100 ft. transfer platform, etc. all brick, steel and concrete, north side of Buffalo Bayou at San Jacinto St., to Dwight P. Robinson Co., 125 East 46th St., New York City, N. Y. Archts. est. $1,000,000.

Colo., Denver — HOTEL — Points Hotel Co., D. F. Lacy, fiscal agt., Continental Trust Co., 14 story and basement, 75 x 125 ft., brick, terra cotta and steel, 17th and Larimer Sts., to H. Stenmark, 120 South Downing St., $1,100,000.

Wash., Bellingham—HOTEL—Mt. Baker Park Co., 4 story, stone and timber hotel and lodge, here, to Balinger & Ford, Everett, $150,000.

Calif., Beverly Hills—GARAGE—M. A. Wilson, Bradbury Bldg., Los Angeles, 5 story (ultimate 7 story) and basement, 50 x 150 ft., rein.-con., Canon Dr., to Industrial Constr. Co., Chamber of Commerce Bldg., Los Angeles, $150,000.

Calif., Los Angeles—APARTMENT—F. A. Ford, 201 San Canon Dr., Beverly Hills, will build 4 story and basement, 60 x 125 ft., brick, South Hoover St., by day labor.

Calif., Los Angeles—WAREHOUSE—C. F. Plummer, archt., 1108 Story Bldg., general contract 2 story and basement, 95 x 240 ft., rein.-con., 2nd and Vignes Sts., to H. M. Baruch Co., I. W. Hellman Bldg., for Challenge Cream & Butter Assn., 1219 South San Pedro St. $137,560. Noted Feb. 18.

Calif., San Francisco—APARTMENT—California Realty & Finance Co., 319 De Young Bldg., will build three 3 story, timber and brick veneer, Taylor St. near Jackson St., by day labor. $150,000. R. R. Irvine, Call Bldg., archts.

Calif., Santa Monica — CLUB — Beach Club of Southern California, 9 story and basement, 20 x 340 ft., brick and rein.-con., Marine Terrace, to Fidelity Constr. Co., Hill-Street Bldg., Los Angeles, approximately $750,000.

Buildings—Industrial

PROPOSED WORK

Mass., Fall River—MILL—Fall River Mattress Co. plans rebuilding brick and steel mill addition. $50,000-$60,000.

Mass., Somerset — PLANT — Montaup Electric Co. plans plant addition. To exceed $40,000. Engineer and architect not selected.

R. I., Bristol—TEXTILE MILL—Cranston Worsted Co., Thames St., having plans prepared by Jenks & Ballou, 1035 Grosvenor Bldg., Providence, 4 story, 135 x 140 ft., brick addition. $225,000.

N. Y., Buffalo — CORE and MALLEABLE PLANTS—Amer. Radiator Co., 1807 Elmwood Ave., having preliminary plans prepared 1 story, 80 x 300 ft. core plant, $45,000, also 1 story, 100 x 300 ft. and 100 x 300 ft. malleable plant addition, $100,000, both on Elmwood Rd.; also 1 story, warehouse addition, Rano St., $50,000, all brick and steel. L. A. Harding, 1335 Main St., engr., for malleable plant only.

N. Y., Buffalo—INDUSTRIAL—Buffalo Goodwill Industrial, Inc., 372 Michigan Ave., having plans prepared by Hudson & Hudson, Dunn Bldg., 4 story, 75 x 150 ft., rein.-con. and brick, Michigan Ave. $200,000.

Pa., Easton—MILL—Gunning Silk Mills having plans prepared by Ballinger Co., 12th and Chestnut Sts., Phila., silk mill addition.

Pa., McKees Rocks—MANUFACTURING—Enterprises Stamping Co., having plans prepared by J. F. K. Phillips, Wabash Bldg., 1 story, 100 x 236 ft., brick and steel addition.

Pa., Phila. — MILL — Concordia Silk Hosiery Co., A and Courtland Sts., having plans prepared by E. A. Wightman, Bankers Trust Bldg., 2 story and basement, rein.-con. and brick, plain foundation, A and Courtland Sts. $60,000.

Pa., Phila.—FACTORY—E. A. Hopper, archt., 10 South 18th St., soon lets contract 3 story and basement, 33 x 139 ft., rein.-con. and brick addition, plain foundation, Delaware and Howell Sts., for Hellwig Silk Dyeing Co., 9th and Buttonwood Sts., $40,000.

Miss., Cleveland—HEATING PLANT—Mississippi Delta State Teachers College, J. W. Broom, pres., having preliminary plans prepared 2 story central heating plant, rein.-con. and brick. $40,000.

Tenn., Nashville — HEATING PLANT — Montgomery Bell Academy, Harding Rd., having plans prepared by G. D. Waller, 201 Independent Lift Bldg., fireproof central heating plant. $50,000.

Ky., Nortonville — POWER PLANT — Kentucky Electric Power Corp. retained J. G. White Eng. Corp., 43 Exch. Pl., New York City, to design and construct 5,000 kw. capacity steam electric power station.

O., Cleveland—FACTORY—W. S. Tyler Co., C. Zimmerman, secy.-treas., 3615 Superior Ave., had plans prepared 3 story and basement, 68 x 119 ft., brick and rein.-con. addition, East 36th St. $60,000. G. S. Rider Co., Century Bldg., archts.

O., Dayton—FACTORY—York Supply Co., Greenville, having plans prepared by Frank Hill Smith, Inc., Winters Bldg., 3 story, 40 x 120 ft., rein.-con., plain foundation, East 3rd St., $100,000.

Mich., Detroit—CREAMERY—Fairmount Creamery Co., 2452 Eastern Market, had plans prepared 2 story and basement, 150 x 180 ft., rein.-con., brick and steel, plain foundation, Milwaukee Ave. $250,000. Private plans.

Mich., Muskegon — FACTORY — Piston Ring Co., E. Young, having plans prepared 4 story, 122 x 125 ft., rein.-con., Sanford St. $100,000. E. Young, c/o Engr. Dept. of owner, engr.

Wis., Milwaukee—LIGHT MANUFACTURING—J. Ruesch Printing Mchy. Co., 485 Bway., having plans prepared by W. J. Kozick, 664 26th St., 3 story and basement, 30 x 120 ft., brick and concrete or brick and timber, plain foundation, Bway. $50,000. Noted Feb. 18.

Wis., Park Falls—MACHINE SHOP—Flambeau Paper Co. having plans prepared by Brust & Phillip, 405 Bway., Milwaukee, rein.-con., brick and steel machine shop, etc. $150,000.

Ia., Davenport — CEMENT PLANT — Dewey Portland Cement Co., 301 Mutual Bldg., Kansas City, Mo., F. E. Tyler, pres., having plans prepared by J. C. Buckbee Co., engrs. and archts., 38 South Dearborn St., Chicago, Ill., group buildings covering 215 acre area, concrete foundation, here. $3,000,000. Noted Feb. 25.

Neb., Hastings — MANUFACTURING — Roth Mfg. Co., plans 2 story and basement, brick, near Chicago, Burlington & Quincy R.R. tracks. $100,000. Engineer and architect not selected.

Mo., Kansas City — SHOP, etc. — L. Drescher, Ambassador Hotel, having plans prepared by R. F. Gornall, Barclay Bldg., 3619 Bway., 6 story and basement, rein.-con. shop and office, plain foundation, 3724 Bway. $250,000.

Mo., St. Louis—POWER PLANT—See "Buildings—Commercial."

Mo., St. Louis — FACTORY — Century Electric Co., 1806 Pine St., purchased 8 acre tract and plans factory on branch of Wabash R.R., Forest Park Blvd., Spring and Manchester Aves.

Mo., St. Louis—FACTORY—Koken Co., 2528 Texas Ave., plans group buildings for barber supply factory, near here. $2,000,000.

Mo., St. Louis—POWER PLANT—Union Electric Light & Power Co., 12th and Locust Sts., L. H. Egan, pres., plans to expend more than $11,000,000 in construction work to keep pace with growing demand for electric power in territory, incl. additions to Kahoka and Ashley power plants.

Minn., Minneapolis—FACTORY—Strong-Scott Mfg. Co., 413 South 3rd St., plans 2 or 3 story and basement, rein.-con., and brick, Taft St. between Traffic and Kennedy Sts. $175,000. Engineer and architect not announced.

See proposal advertisements on page 151, Advertising Section.

Buildings—Industrial (Continued)

Minn., Winona—POWER PLANT—Mississippi Valley Pub. Serv. Co. plans 1 story, rein.-con., brick and steel additional unit, plain foundation, here. $40,000. Engineer and architect not selected.

Texas — COTTON GINS — Pharr Gin & Warehouse Co., Pharr, plans 2 complete cotton gins, one at Bill Schiltz Switch, and other at San Juan Plantation. $75,000. Work may be done by day labor. Private plans.

Tex., Beeville—BOTTLING PLANT—E. K. Lyons, Mercedes, soon takes bids bottling plant, 4,200 daily capacity. $50,000. Private plans.

Tex., Brownsville — ICE and COLD STORAGE PLANT — Brownsville Ice & Cold Storage Co. having preliminary plans prepared 45 ton capacity ice and cold storage plant. $100,000. Private plans.

Tex., Brownsville — YARN SPINNING PLANT — Merchants & Planters Cotton Mill, New Braunfels, making plans 2 story, 150 x 250 ft., permanent construction, here. $100,000. Private plans. Noted Aug. 20.

Tex., Center Point—TEXTILE MILLS—S. E. Bomar (promoter), Kerrville, plans 2 or 3 story textile mill on Guadalupe River, here. $1,000,000. Engineer and architect not selected.

Tex., Harlingen—COTTON GIN—Henderson & Webb soon take bids 6 stand, 80 saw capacity cotton gin. $40,000. Private plans.

Tex., Plainview — MILL — Harvest Queen Mill & Elevator Co. having plans prepared rebuilding 5 story and basement, rein.-con. mill and warehouse, recently destroyed by fire. Southwestern Eng. Co., Woodruff Bldg., Springfield, Mo., engrs.

Tex., Rochester—COTTON GIN—Farmers Gin Co., plans cotton gin of two separate units. $75,000. Private plans.

Tex., San Antonio—PACKING PLANT—Mission Provision Co., 114 Blue Star St., plans 2 story, 49 x 97 ft., rein.-con. and steel packing plant. $125,000. M. L. Diver, c/o Calcasieu Bldg., engr.

Tex., San Antonio—FACTORY—J. Love, Inc., 20 East 22nd St., New York City, having plans prepared 2 story part basement, rein.-con., brick and stone, plain foundation, here. $200,000. Private plans.

Tex., Temple — COTTON GIN — O. L. Fletcher plans 8 stand, 80 saw capacity cotton gin, 14th St. and Ave. C. $40,000. Private plans.

Tex., Yoakum — HOSIERY MILL — C. Mankin and associates, soon take bids hosiery mill, brick and rein.-con. $65,000. Private plans. Noted Sept. 3.

Okla., Oklahoma City—SEED HOUSE—Southwestern Cotton Oil Co., 6 East Chickasaw St., making preliminary plans rebuilding 1 story, 124 x 270 ft. seed house, steel, recently destroyed by fire. $175,000. H. Hayden, mgr. Engineer and architect not announced.

Wash., Grotto—CEMENT MILL—Northwestern Portland Cement Co., Seattle, plans cement plant, here. $1,000,000.

Wash., Seattle — CEMENT PLANT — Washington Portland Cement Co., Seattle, plans cement plant, 750,000 bbl. yearly capacity. $2,000,000.

Ore., Hood River — COLD STORAGE PLANT — Maynard & Child, Ry. Exch. Bldg., Portland, having preliminary sketches made cold storage plant, here. $100,000.

Calif., Berkeley—PLANT—H. J. Heinz Co., 217 2nd St., San Francisco, and 1062 Progress St., Pittsburgh, Pa., purchased site and plans fireproof food products plant, Ashby and San Pablo Aves. $750,000 or more.

Calif., Chowchilla — PLANT — Danish Creamery Co-Operative Assn., J. R. Murphy, genl. mgr., E and Inyo Sts., Fresno, plans dried milk plant, here. $90,000 or more.

Calif., Fresno — PLANT — Danish Creamery Co-Operative Assn., J. R. Murphy, genl. mgr., E and Inyo Sts., plans dried milk plant. $75,000.

Calif., Oakland—FACTORY—California Wire & Cable Co., 564 Market St., San Francisco, had plans prepared 1 story, brick and steel addition, 81st St. To exceed $40,000. Austin Co. of California, 244 Kearny St., San Francisco, engrs.

Calif., San Francisco—FACTORY, etc.—Granat Bros., 2248 Mission St., having preliminary plans prepared by V. W. Houghton, 275 Post St., 2 story and basement, steel and concrete factory and store, Mission and 20th Sts. $150,000.

Calif., Santa Monica — FACTORY — Symphonaer Organ Co., 504 Wilshire Blvd., plans factory. To exceed $250,000.

Calif., Santa Rosa—PLANT—E. F. and H. P. Sophey, plan rebuilding 1 story, 120 x 200 ft. auto body and truck plant, 3rd and A Sts.

Que., Drummondville—SILK FACTORY Canadian Celanaese Co., Ltd., L. Auger, had plans prepared by D. R. Clavel, Baste, Switzerland, silk factory, here.

Ont., Brampton—FLOUR MILL—Brampton Milling Co., A. H. Balfour, proprietor, plans rebuilding mill, recently destroyed by fire. $50,000.

Ont., Woodstock—FACTORY—Harvey Knitting Co. plans factory addition. $60,000.

B. C., New Westminster — PULP MILL and SAWMILL — Dominion Natl. Consolidated Industries, Ltd., City Hall, S. M. Bump, pres., having plans prepared pulp and saw mill, Poplar Island, near here. $2,000,000. Private plans.

BIDS DESIRED

Pa., Phila.—BOTTLING PLANT—Mar. 4, by G. Schmidt & Sons, Inc., 2nd and Edwards Sts., 2 story, mezzanine and basement, 107 x 176 ft., rein.-con. and brick addition, plain foundation. C. E. Wunder, 1520 Locust St., arch.t

Pa., Phila.—SUB-STATION—Mar. 9, by J. I. Windrem, archt., Commonwealth Bldg., 1 story and basement, 60 x 100 ft., and 15 x 19 ft., rein.-con. and brick, plain foundation, 19th and Oxford Sts., for Philadelphia Electric Co., 10th and Chestnut Sts.

La., New Orleans — GARAGE and WAGON WORKS — Mar. 15, by M. H. Goldstein, archt., Hibernia Bank Bldg., 5 story, rein.-con., Gravier St., for Thomson Bros. $100,000.

Wis., Janesville — PLANT — See "Contracts Awarded."

Wis., Milwaukee — FACTORY — R. E. Oberst, archt., 128 Grand Ave., taking bids 2 story, 88 x 88 ft., brick and timber addition, plain foundation, Harmon St., for B. Nasnot, c/o architect. $40,000.

Wis., Wisconsin Rapids — PLANT — See "Contracts Awarded."

Ia., Des Moines—PLANT—Mar. 15, by J. A. Raymaker, archt. and consult. engr., c/o Woods Brothers Thresher Co. (owner) 160 x 500 ft., 80 x 340 ft. and 28 x 340 ft. plant, also 40 x 60 ft. power plant rein.-con. and steel, concrete foundation.

Ia., Iowa City — HEATING PLANT — Mar. 9, by W. H. Gemmell, secy. State University, State House, Des Moines, 1 story and basement, 120 x 210 ft., rein.-con., brick, steel and stone, here. Former bids rejected. Noted Feb. 25.

Mo., Marionville—VINEGAR FACTORY —See "Contracts Awarded."

Mo., St. Louis—FOUNDRY—See "Contracts Awarded."

Okla., Chickasha—BRICK PLANT—See "Contracts Awarded."

CONTRACTS AWARDED

Conn., Southington—HARDWARE FACTORY—Peck, Stow & Wilcox Co., Railway Sq., 2 story, 97 x 100 ft., brick addition, to H. Wales Lines Co., 134 State St., Meriden. Archts. est. $65,000. Noted Nov. 19.

Conn., Waterbury — FACTORY —Lux Clock Mfg. Co., 97 Sperry St., 5 story and basement, 50 x 322 ft., brick and steel addition, to Tracy Bros. Co., 52 Benedict St. Noted Dec. 31.

N. Y., New York—DISTRIBUTING STATION—New York Edison Co., 130 East 15th St., 1 story, rein.-con., brick and steel, plain foundation, Boston Rd. and 172nd St., to Ken-Well Contg. Co., 45 East 17th St. Archts. est. $150,000.

N. J., Camden — FACTORY — Congress Cigar Co., 3rd and Spruce Sts., Phila., Pa., 4 story and basement, 100 x 160 ft., and 20 x 50 ft., rein.-con. and brick, plain foundation, 9th and Liberty Sts., here, to J. S. Rogers Co., Drexel Bldg., Phila., Pa. Archts. est. $300,000. Noted Feb. 11.

Pa., Phila. — MILL — Artcraft Silk Hosiery Mills, Erie Ave. and Amber St., 1 story and basement, 86 x 192 ft., rein.-con. and brick, plain foundation, M St. north of Gary St., to Robbins Contg. Co., 1137 North Frankford St. Archts. est. $50,000.

Tenn., Dyersburg — ICE and COLD STORAGE PLANT—Dyersburg Ice & Cold Storage Co., 2 story and basement, brick and concrete, along Illinois Central R.R. tracks, to S. Bliven Constr. Co., Dyersburg, $40,000. Noted Dec. 17.

Ill., Chicago — FACTORY — B. Heller & Co., 3925 Calumet Ave., general contract 2 story, 67 x 369 ft., brick and steel addition, to W. McCumber, 140 South Dearborn St. Archts. est. $125,000.

Ill., Chicago — TOY FACTORY — N. Shure, 4537 Fulton St., general contract 4 story, 99 x 100 ft., brick addition, 4631-4639 Fulton St., to G. F. Meyne, 127 North Dearborn St., $150,000.

Ill., Chicago—FACTORY—F. A. Randall, structural engr., 160 North La Salle St., general contract 2 story, 75 x 100 ft. top addition, 1650 Walnut St., to B. J. Regnell Co., 19 South La Salle St., for Jewell Electrical Instrument Co. Archts. est. $40,000.

Ill., Chicago — FACTORY — Universal Stamping & Mfg. Co., 1925 South Western Ave., general contract 1 story, 108 x 175 ft., brick, 2841 North Western Avev., to E. C. Ecker & associates, 110 South Dearborn St. Archts. est. $58,000.

Ill., Fulton — WAREHOUSE — Patent Novelty Co., 2 story and basement, 80 x 140 ft., concrete and brick warehouse, to A. G. Hoese, Fulton. Noted Jan. 14.

Ill., Kankakee—ROUND HOUSE, etc.—Cleveland, Cincinnati, Chicago & St. Louis R.R. Co., Union Central Bldg., Cincinnati, O., O. H. Baldwin, ch. engr., brick round house, service building, etc., to A. J. Glaser, Muncie, Ind. Engrs. est. $208,900. Noted Jan. 28.

Ill., Sycamore — BOOK BINDERY — Chamber of Commerce, 1 story and basement, 100 x 125 ft., concrete and brick, to B. J. Nelson, 560 De Kalb St., De Kalb. Archts. est. $50,000.

Wis., Janesville—PLANT—C. H. Cox, 509 Monroe St., will build 1 story, 40 x 100 ft., rein.-con., brick and steel, plain foundation, here, by day labor. $50,000. Private plans.

Wis., London—REPAIR SHOP—Febock & Nattestad, 1 story and basement, 60 x 100 ft., rein.-con. and brick repair shop, here, to Hanzicker Contg. Co., Lake Mills. Archts. est. $40,000.

Wis., Milwaukee — FACTORY — Amer. Hair Felt Co., 44th and State Sts., 1 story, 132 x 150 ft., brick and timber addition, State St., to J. L. Stanage, 3526 Cedar St. Archts. est. $40,000.

Wis., Wisconsin Rapids—PLANT—Consolidated Water Power & Paper Co., will build 25 x 28 x 40 x 40 ft., rein.-con., brick and steel, plain foundation, by day labor. $50,000. L. A. DeGuere, Wisconsin Rapids, engr.

Mo., Jacksonville — WOOD WORKING PLANT—Huttig Sash & Door Co., 1200 South Vandeventer St., St. Louis, wood working plant addition, approximately 37,000 sq.ft. floor space, here, to N. J. Sutton, 332 East 3rd St., St. Louis. $60,000.

Mo., Marionville—VINEGAR FACTORY —Spears Vinegar Mfg. Co., Nicholson and Watkins Sts., Kansas City, will build 2 story, rein.-con. factory, here, by day labor. $60,000-$75,000. Private plans. Noted Feb. 18.

Mo., St. Louis—FOUNDRY—Koken Co., 2528 Texas Ave., will build 1 story, 100 x 160 ft. foundry, Morganford St., by day labor, under supervision of W. A. Lucas, archt., 3411 Halliday Ave. $50,000.

Okla., Chickasha—BRICK PLANT—Bay Petroleum Co. will build brick plant, by day labor. $80,000. Private plans.

Calif., Bakersfield — NEWSPAPER PLANT—C. H. Biggar, archt., Bank of Italy Bldg., 2 story and basement, 70 x 121 ft., rein.-con. plant, to H. Eissler, Bakersfield, for Bakersfield Daily Californian. $83,500. Noted Feb. 25.

Calif., Los Angeles—FACTORY—Angelus Furniture Mfg. Co., 931 East Pico St., 2 story, 175 x 500 ft., brick, East 9th St., to J. M. Cooper, Rives-Strong Bldg., $150,000.

Calif., Los Angeles—CREAMERY—Jersey Farm Dairy Co., Slauson and Vermont Aves., part 1 and 2 story, 165 x 265 ft., brick and steel, Gramercy Pl., to J. Schuck, 1223 West 61st St., $60,000.

Calif., Oakland — WAREHOUSE — Lawrence Warehouse Co., A. T. Gibson, pres., 37 Drumm St., San Francisco, 5 story, rein.-con., 1st, Water, Franklin and Webster Sts., to Industrial Constr. Co., 815 Bryant St., San Francisco, approximately $350,000. Noted Nov. 26.

Calif., San Jose — CANNERY — U. S. Products Co., c/o Wolfe & Higgins, archts., Auzerais Bldg., 1 story, timber, Race St., to R. O. Summers, 1132 South 2nd St., $40,000.

Calif., South San Francisco—FACTORY —W. P. Fuller Co., 301 Mission St., San Francisco, 3 story paint factory, rein.-con., here, to P. J. Walker Co., Sharon Bldg., San Francisco, to exceed $150,000.

Buildings—Educational Religious

PROPOSED WORK

Mass., Framingham — CHURCH — Grace Congregational Church plans rebuilding church, recently destroyed by fire. $200,000. Engineer and architect not selected.

Mass., Springfield — SCHOOL and OFFICE—Bay Path Institute, Chestnut St., plans 2 and 3 story and basement, 60 x 120 ft., brick and steel, Chestnut St. and Harrison Ave. $150,000-$170,000.

Mass., Worcester—DORMITORY—Worcester Polytechnic Institute plans 3 or 4 story and basement, brick and steel dormitory. $225,000. Engineer and architect not selected.

See proposal advertisements on page 151, Advertising Section.

Buildings—Educational, Religious (Cont.)

Conn., Hartford — SYNAGOGUE and SCHOOL—Emanuel Synagogue, M. Silverman, rabbi, 90 Homestead Ave., having plans prepared by Ebbets & Frid, 15 Lewis St., 1 and 2 story, brick and stone, Greenfield and Woodland Sts. $250,000.

Conn., New Britain — SCHOOL — M. J. Nukelbach, archt., 52 Main St., soon takes bids 3 story school, incl. 20 class rooms, 2 gymnasiums, boys shop room, girls household, art room, Tremont St., for Bd. Educ., J. M. Halloran, chn. school com. $200,000. Noted Feb. 18.

N. Y., Buffalo—CHURCH—St. Rose of Lima Roman Catholic Church, 42 Carmel Rd., having plans prepared by Bley & Lyman, 505 Delaware Ave., 2 story and basement, rein.-con. and brick, Parkside Ave. $150,000. Noted Jan. 21.

N. Y., New York — CHURCH and SCHOOL—Church of Our Lady of Pompei, c/o M. W. Del Gaudio, engr. and archt., 160 West 45th St., having plans prepared brick, steel and stone, plain foundation, 6 Leroy St. $550,000.

N. Y., Oyster Bay—SCHOOL—Bd. Educ. having plans prepared by Tooker & Marsh, engrs. and archts., 101 Park Ave., New York, brick, steel and stone, plain foundation. $600,000.

N. J., Union—SCHOOLS—Bd. Educ. having plans prepared by F. A. Elsasser, 855 Broad St., Newark, 2 twelve room schools. $340,000.

Fla., Lake City—SCHOOL—Bd. Educ. voted $175,000 bonds, school.

Fla., Winterhaven — SCHOOL — Plans election $200,000 bonds, new high school, for Bd. Educ. C. F. Ward, mayor.

Ky., Louisville—HIGH SCHOOLS—Bd. Educ. plans 1 Senior and 8 Junior High Schools. $3,500,000.

La., Ruston — ADMINISTRATION — Louisiana Institute of Technology, having plans prepared by E. F. Neild, Shreveport, 2 and 3 story administration building. $400,000.

Miss., Cleveland — COLLEGE — Mississippi Delta State Teachers College, J. W. Broom, pres., having preliminary plans prepared womens dormitory, $120,000, and academic building, $200,000, each 2 story, brick and concrete.

O., Alliance—LIBRARY—Mt. Union College having plans prepared by Walker & Weeks, 1900 Euclid Bldg., Cleveland, 3 story and basement, Mt. Union St. $450,000.

Ind., Greencastle—CHURCH—Methodist Episcopal Church, having preliminary plans prepared by Daggett & Hibben, 922 Continental Bank Bldg., Indianapolis, brick, steel and rein.-con. church. $200,000. F. Ogg, chn.

Ind., Greencastle—DORMITORIES—De Pauw University having plans prepared by Daggett & Hibben, 922 Continental Bank, Lucy Roland Hall and Longden Hall, both brick and rein.-con., University grounds. $250,000 each.

Ind., Indianapolis—PARISH HOUSE—First Presbyterian Church, M. F. Smith, pastor, 16th and Delaware Sts., having plans prepared by R. F. Daggett, 959 Lemcke Annex, brick and rein.-con., adjoining church. $150,000.

Ind., Indianapolis — SCHOOL — School Comn., 150 North Meridian St., having plans prepared by McGuire & Shook, 320 Indiana Pythian Bldg., Grade School 9, brick and rein.-con., incl. gymnasium, Vermont and Davidson Sts. $160,000. Snider & Rotz, 703 Merchants Bank Bldg., engrs.

Mich., Highland Park (Detroit) — CHURCH—Highland Park Baptist Church had plans prepared by Lane, Davenport & Peterson, 1017 Charlevoix Bldg., Detroit, plans 3 story and basement, 115 x 140 ft., brick and steel, plain foundation. $150,000.

Mich., Oxford — SCHOOL — Bd. Educ. having preliminary plans prepared by Malcolmson & Higginbotham, 1217 Griswold St., Detroit, 2 story and basement, rein.-con., brick and steel, plain foundation. $150,000.

Ill., Normal—HIGH SCHOOL—Bd. Educ., H. Dermert, supt., having preliminary plans prepared by Schaeffer, Roozen & Hooten, Peoples Bank Bldg., Bloomington, rein.-con., brick and stone high school. $200,000.

Wis., Lake Geneva—GYMNASIUM—Bd. Educ., P. Peterson, clk., plans 2 story and basement, brick and concrete, plain foundation. $150,000. Engineer and architect not selected.

Wis., Madison—SCHOOL—University of Wisconsin, c/o J. D. Phillips, bus. mgr., Administration Bldg., plans rein.-con., brick and steel medical building. $600,000. Engineer and architect not selected.

Wis., Milwaukee—SCHOOL, etc.—School Bd., F. Harbach, secy., having plans prepared by G. E. Wiley, c/o owner, North Division High School, 3 story and basement, brick and concrete addition, incl. 44 x 60 ft. power house and 100 ft. brick stack, 12th St. $250,000.

Wis., Milwaukee—SCHOOL—School Bd., F. Harbach, secy., having plans prepared by G. E. Wiley, c/o owner, remodeling West Division High School, and constructing 3 story and basement, 24 x 65 ft., brick and concrete addition, inc. coal vault, gymnasium, locker room and 100 ft. chimney, 23rd St. $200,000.

Wis., Sun Prairie — COMMUNITY — Sacred Heart Congregation, c/o J. J. Salentin, pastor, having plans prepared by Claude & Starck, Badger Annex, Madison, 1 story and basement, rein.-con., brick and steel, plain foundation. $150,000.

Ia., Muscatine—SCHOOLS—Plans election $275,000 bonds, 1 new and additions to 2 schools.

Ia., Newton—SCHOOLS—Voted $170,000 bonds, 2 new grade schools and addition to Washington School. Thomas, McLennan & Thomas, 527 West 17th St., Des Moines, archts. Noted Jan. 28.

Ia., Sioux City—DORMITORY—Morningside College, 1500 Morningside Ave., having plans prepared by Beuttler & Arnold, engrs. and archts., Grain Exch. Bldg., Women's Dormitory, 3 story and basement, 56 x 135 ft. main building and two units, each 2 story, 42 x 80 ft., rein.-con. and brick, concrete pile foundation, Vine Ave. $205,000.

Neb., Hastings—SCHOOL—Election Mar. 9, $450,000 bonds, addition to Longfellow Grade School, incl. gymnasium, shop, etc. K. H. Giding & Co., Loyal Mystic Legion Bldg., archts.

Mo., Cape Girardeau—SCHOOLS—Bd. Educ. having plans prepared by R. K. Knox, H. & H. Bldg., Cape Girardeau, and W. B. Ittner, 911 Locust St., St. Louis, and takes bids about Apr. 1, 2 story and basement, 122 x 195 ft., rein.-con., brick and stone addition to school, Louisiana and West Themis Sts.; 2 story and basement, 80 x 164 ft. with two 46 x 70 ft. wings to Washington Grade School; and 46 x 70 ft. addition to Bay Greene School. $150,000 each. Noted Nov. 12.

Mo., St. Louis—SCHOOLS—Bd. Educ., 911 Locust St., soon takes bids reconstructing Central High School; constructing 6 room additions to Long and Rose Schools; 8 room addition and auditorium for Harris Teachers College; 12 room additions to Scruggs and Buder Schools; and reconstructing Arlington and 3 story school to replace Canterbury portables. R. M. Milligan, c/o owners, archt. and engr. and engrs.

Mo., St. Louis — SCHOOL — Central Institute for Deaf, 818 Kingshighway, soon takes bids 3 story and basement, rein.-con., brick and stone school addition. $300,000. W. B. Ittner, 911 Locust St., archt.

Mo., Webster Groves—SCHOOLS—Plans election $180,000 bonds, constructing (2nd unit) new high school and addition to negro high school, for Bd. Educ.

Tex., Amarillo—CHURCH—Central Presbyterian Church, takes bids after Mar. 10, 2 story and part basement, 140 x 210 ft., rein.-con., brick and stone, plain foundation, 11th and Harrison Sts. $250,000. Shepard & Wiser, 1208 R. A. Long Bldg., Kansas City, Mo., archts. Noted Jan. 7.

Tex., Amarillo—HIGH SCHOOL—Amarillo Independent School Dist., c/o G. M. Waddell, secy., having preliminary plans prepared high school. $225,000 bond election soon for same.

Okla., Enid—SCHOOL—Voted $250,000 bonds, for school, for Bd. Educ. Noted Jan. 21.

Okla., Ponca City — MUSEUM — E. W. Marland making preliminary plans rein.-con. and brick, plain foundation, Grand St. $250,000. Engineer and architect not selected.

Wash., Seattle—CHURCH—St. Marks Protestant Church, c/o J. F. Duthie, ch. building com., plans new church. $150,000-$200,000.

Wash., Seattle — SCHOOL — School Bd. having plans prepared by F. A. Naramore, Central Bldg., John Marshall Intermediate School, North 68th St. and Ravenna Blvd. $500,000.

Wash., Tacoma—COLLEGE—College of Puget Sound, E. H. Todd, pres., having plans prepared by Sutton-Whitney & Dugan, Rust Building, 38 x 120 ft., brick and stone womens building. Plans later 66 ft. wing.

Calif., Glendale—HIGH SCHOOL—Plans election bonds to exceed $150,000 high school, for Glendale Union High School Dist.

Calif., Los Angeles — UNIVERSITY — University of California, Berkeley, plans fireproof branch buildings, here. To exceed $750,000. G. W. Kelham, Sharon Bldg., San Francisco, archt.

Que., Hull — SCHOOLS — Hull School Comn. having plans prepared by J. D. Chene, 163 Notre Dame St., 2 schools. $150,000.

Ont., Hamilton — SCHOOL — Bd. Educ. having plans prepared by Witton & Walsh, 7 Hughson St. S., 2 story and basement, 8 room, rein.-con., brick and steel, plain foundation, Westdale St. $150,000.

Ont., Toronto—MUSEUM—Royal Ontario Museum, Bloor St., plans 2 story and basement, brick addition. $250,000.

Ont., Toronto—SCHOOL—Bd. Educ. having plans prepared by C. E. Dyson, 155 College St., John Winters School, 2 story and basement, 9 room, rein.-con., brick and steel, plain foundation, Fairlawn Ave., $150,000; also repairing various schools, $350,000.

Ont., Toronto—SCHOOL—Chapman & Oxley, archts., Northern Ontario Bldg., soon take bids 3 story and basement, rein.-con., brick and steel, plain foundation, Glenview Ave., for Havergal College, 345 College St. $250,000.

Ont., Welland — SCHOOL — Bd. Educ. plans 2 story and basement, 9 room, rein.-con., brick and steel, plain foundation, North Ward. $150,000. Engineer and architect not selected.

BIDS DESIRED

Md., Baltimore—SCHOOL—Mar. 17, by Bd. Awards, 3 story and basement, 64 x 252 ft., brick and steel, plain foundation, Preston and Walnut Sts. Flournoy & Flournoy, 306 St. Paul St., archts. H. Massart, 326 North Charles St., engr.

N. C., Goldsboro—HIGH SCHOOL—Mar. 10, by Bd. Trustees Goldsboro Schools, 2 story, 22 class room, Herman Park. $225,000.

Pa., Columbia—CONVENT—Mar. 11, by P. A. Monaghan, archt., 1713 Sansom St., Phila., 3 story and basement, 48 x 120 ft., and 48 x 200 ft., rein.-con., stone and steel, plain foundation, here, for Sisters St. Joseph Convent. $300,000.

O., East Cleveland (Cleveland P. O.) — SCHOOL—Mar. 22, by Bd. Educ., C. A. Tilden, dir., Shaw and Euclid Aves., 2 story and basement, brick, steel and concrete, Caledonia St. $225,000. J. F. Cavanaugh, 2729 Prospect Ave., Cleveland, archt. Noted Jan. 28.

O., Marysville — DORMITORY and ASSEMBLY HALL — Dept. Welfare Oak and 9th Sts., Columbus, taking bids 3 story and basement, 50 x 200 ft. dormitory, $120,000, also 3 story and basement, 40 x 50 ft. gymnasium and assembly hall, $65,000, both brick and steel, for Ohio Reformatory for Women, here. H. B. Briggs, Ohio Hartman Bldg., state archt.

O., Stowe (mail Lowell)—HIGH SCHOOL—Mar. 10, by Bd. Educ., 3 story and basement addition, incl. auditorium and gymnasium. $150,000.

Ind., Indianapolis—SCHOOL—Mar. 6, by Bd. School Comrs., 150 North Meridian St., School 78, Vermont St. and Sherman Dr. E. D. Pierre, 1134 Hume-Mansur Bldg., archt.

Ind., Anderson—SCHOOL—Mar. 17, by Bd. Educ., 2 story, 160 x 180 ft., brick and rein.-con., East 12th St. between Fletcher and Pearl Sts. $165,000. E. R. Watkins, Farmers Trust Bldg., archt.

Mich., Fordson (Detroit P. O.)—HIGH SCHOOL—Apr. 14, by F. E. Yinger, secy. Bd. Educ., 3 story and basement, rein.-con., brick and steel, plain foundation. $150,000. H. J. Keough, 3440 Cass Ave., Detroit, engr. and archt.

Mich., Ypsilanti—SCHOOL—Mar. 15, by W. M. Derbyshire, secy. Roosevelt School, 3 story and basement, 150 x 190 ft., rein.-con., brick and steel, plain foundation, Augusta Twp., for Consolidated Agricultural School. $350,000. Warren Holmes-Powers Co., Lansing, archts.

Ill., Chicago—HIGH SCHOOL—Mar. 16, by Bd. Educ., 650 South Clark St., Roosevelt Senior High School, 3 story and basement, 300 x 650 ft., rein.-con., brick and stone, Wilson and Kimball Aves. $4,000,000. J. C. Christensen, c/o owner, archt.

Minn., Minneapolis—CHURCH—Mar. 10, by Central Lutheran Church, S. J. Stevens, ch. Building Com., 130 x 150 ft., rein.-con., brick and sand stone, 4th Ave. and Grant St. $170,000.

Ont., Toronto—CHURCH—J. F. Brown, archt., 2 Bloor St. E., taking bids 1 and 2 story and basement, 60 x 100 ft., rein.-con., brick and steel, plain foundation, Park Rd., for Central Baptist Church, Castle Memorial Hall, Bloor St. W. $160,000.

BIDS RECEIVED

D. C., Wash. — HIGH SCHOOL — Dist. Comrs., Feb. 19, Stuart Junior High School, from Parson & Hyman, Inc., Equitable Bldg., (a) $10,000 (b) $445,000. Noted Feb. 4.

See proposal advertisements on page 151, Advertising Section.

Buildings—Educational, Religious (Cont.)

Neb., Omaha — HIGH SCHOOL — Bd. Educ., M. E. Bird, secy., City Hall, general contract 2 story and basement, brick, Maple and 52nd Sts., from P. Kiewitz & Sons, 908 Omaha Natl. Bank Bldg., $376,850.

Calif., Los Angeles — SCHOOL — Bd. Educ., Feb. 17, general contract 2 story, 115 x 235 ft., brick, 17th St., from J. F. Kobler, 932 South Rimpau St., $102,678. Noted Feb. 11.

CONTRACTS AWARDED

Mass., Braintree (Ind. br. Boston) — SCHOOL — City, School Com., 3 story and basement, 110 x 180 ft., brick and steel, to J. M. Hartwell, 46 Cornhill St., Boston. Archts. est. $175,000.

Mass., Norwood — SCHOOL — St. Catherine's School, J. F. Doherty, pastor, 2 story and basement, brick and steel, Nahatan St., to J. F. Griffin Co., 15 Exchange St., Boston. Archts. est. $150,000. Noted Feb. 18.

N. Y., Bayside (Ind. Sta. Flushing)—SCHOOL—Bd. Educ., 500 Park Ave., New York City, general contract for addition to P. S. 41, 35th Ave. from 214th Pl. to 214th Lane, here, to M. F. Kelly Building Corp., 33 Old Bway., New York City, $297,840. Noted Jan. 14.

N. Y., Wellsville—HIGH SCHOOL—Bd. Educ., brick, steel and stone, plain foundation, to Havens Contr. Co., Olean, N. Y., $321,008. Noted Jan. 21.

Pa., Ardmore—HIGH SCHOOL—Lower Merion Twp. School Dist., general contract two 3 story and basement, 69 x 84 ft., rein.-con. and brick wings to Senior High School, plain foundation, Montgomery Ave. and Church Rd., to Wills-Bill Co., 1706 Sansom St., Phila., $274,724; heating and ventilating, to N. Connelly, 1404 North 18th St., $27,107. Noted Feb. 25.

Pa., Johnstown—HIGH SCHOOL—J. D. Rutledge, pres. Bd. Educ., 601 Swan Bldg. general contract Garfield Junior High School, 3 story and basement, 260 x 300 ft., brick and steel, Morrellville St., to R. R. Kitchen Co., Bae Mar Pl., Wheeling, W. Va., $670,000; electrical work, to Reese & Barnhart, Johnstown, $32,687. Noted Feb. 4.

Pa., Phila. — CHURCH — Tabernacle Lutheran Church, c/o W. L. Miller, pastor, 6123 Christian St., stone and steel church, plain foundation, 59th and Spruce Sts., to E. J. Kreitzburg, 1333 Arch St. Archts. est. $150,000.

Pa., Phila.—SCHOOL—Bd. Educ., 19th and Chestnut Sts., general contract 2 story and basement, 76 x 173 ft., rein.-con. and brick, plain foundation, to G. W. Shaner & Son, Palmyra, N. J., $128,279; and electrical work, to C. S. Wright, Camden, N. J., $29,751.

Pa., Swissvale (Ind. br. Pittsburgh) — SCHOOL and CONVENT — St. Anselms Roman Catholic Congregation, general contract 1, 2 and 3 story and basement, school and convent addition, to H. Busse Co., Wabash and Main Sts., Pittsburgh. Archts. est. $200,000.

Pa., Williamsport—HIGH SCHOOL—Bd. Educ., general contract Thadius Stevens High School, 2 story and part basement, 170 x 260 ft. rein.-con., brick and steel, plain foundation, 7th Ave., to J. Cunningham, Elmira, N. Y., $296,362; heating and ventilating, to B. G. Carpenter Co., 508 South Main St., Wilkes-Barre, $60,436; and plumbing, to K. Plankenhorn, Williamsport, $23,599. Grand total $360,397. Noted Feb. 4.

Miss., Raymond — HIGH SCHOOL — Bd. Trustees Hinds Co., general contract 2 story, 72 x 210 ft., brick administration building, swimming pool, gymnasium and addition to girls dormitory, to E. G. Parrish Constr. Co., Jackson, for Hinds Co. Agricultural High School and Junior College. $122,900. Noted Feb. 4.

Tenn., Knoxville — CHURCH — Central Methodist Church, brick and stone church, to J. M. Sunn & Son, Knoxville. Archts. est. $260,000. Noted May 1.

O., Cincinnati—SCHOOL—St. Joseph College, Delhi Rd., 5 story and basement, rein.-con. and brick, plain foundation, Delhi Rd., to Penker & Son, 123 Valencia St. $250,000.

Mo., St. Louis—LIBRARY—Pub. Library Bd., c/o Central Library, 14th and Olive Sts., 2 story and basement, 30 x 60 ft., and 45 x 100 ft., brick, concrete and stone, Grand St. and Utah Pl., to Dickie Constr. Co., Syndicate Trust Bldg. Archts. est. $150,000. Noted Dec. 31.

Mo., University (St. Louis P. O.) — SCHOOLS—Bd. Educ., 6701 Delmar Blvd., general contract 2 brick and concrete wings to Flynn Park School, and addition to Pershing School, each 2 story and basement, to W. MacDonald Constr. Co., Syndicate Trust Bldg., St. Louis, archts. est. $250,000; and 3 story, 67 x 98 ft., and 38 x 98 ft. additions to Harvard High School, to Dickie Constr. Co., Syndicate Trust Bldg., St. Louis, archts. est. $170,000. Noted Jan. 21.

Ore., Portland—SCHOOL—Bd. Educ., 2 story, 107 x 260 ft., rein.-con. and brick, 1169 Fremont St., to Stebinger Bros., Worcester Bldg., $170,827.

Calif., Santa Barbara—GYMNASIUM—Santa Barbara Recreation Center, 3 story, steel and rein.-con., gymnasium, to Wagoner & Fell, 1515 Laguna St., $165,000. Noted Jan. 21.

Federal Government Work

PROPOSED WORK

Ga., Atlanta — Administration — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., rejected bids Dec. 22, 2 story and basement administration building for U. S. Veterans Hospital 48, here. Noted Dec. 31.

Tex., Galveston—Dredging—U. S. Engineers Office, Trust Bldg., J. L. Schley, dist. engr., making plans and takes bids about June 1, dredging 9 mi. channel. $3,000,000.

BIDS DESIRED

Ala., Florence — Roadway — Mar. 25, by U. S. Engineers Office, constructing roadway at Dam 2 (Wilson Dam), Tennessee River; adv. E. N.-R. Mar. 4.

Ky., Louisville—Wicket Irons, etc.—Mar. 16, by U. S. Engineer Office, P. O. Box 72, wicket irons, horses and props for Navigable Pass, Dam 41, Ohio River; adv. E. N.-R. Mar. 4.

Ind., Fort Wayne—Remodeling—Mar. 17, by Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office and Court House, here. J. A. Wetmore, acting supervising archt.; adv. E. N.-R. Mar. 4.

Mich., Camp Custer (br. Battle Creek) —Walks—Mar. 16, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing covered walks for U. S. Veterans Hospital 100, here. F. T. Hines, dir.

Ill., Great Lakes (br. Waukegan)—Ash Handling System—Spec. 5184—Mar. 24, by Bureau Yards & Docks, Navy Dept., Wash., D. C., ash handling system for Naval Training Station, here. Noted Dec. 3.

Colo., Denver—Gates—Mar. 29, by Bureau Reclamation, Dept. Interior, E. Mead, comr., two 4 x 4 ft. high pressure emergency gates for McKay Dam, Umatilla Project, Oregon; and three 5 x 5 ft., high pressure sluice gates, for Guernsey Dam, North Platte Project, Nebraska-Wyoming. E. Mead, comr.; adv. E. N.-R. Mar. 4.

Calif., Eureka—Radio Tower—Spec. 5161 —Mar. 17, by Bureau Yards & Dock, Navy Dept., Wash., D. C., 125 ft. steel and concrete radio tower at Naval Radio Station, here. Former bids rejected. Noted Feb. 18.

BIDS RECEIVED

N. Y., New York—Dredging—U. S. Engineers Office, Army Bldg., 39 Whitehall St., Feb. 26, 24,000 cu.yd. dredging in Harlem River, from Great Lakes Dredge & Dock Co., 17 Battery Pl., at $0.775 per cu. yd., total $18,600. Noted Jan. 28.

N. Y., Troy—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., Feb. 16, mailing vestibule, mezzanine, etc. at U. S. Post Office, here, from Nial Bros. Constr. Co., Douw St. (1) $4,990, (2) $1,460. Noted Jan. 28.

La., Reserve—Dock—Inland Waterways Corp., 321 Custom House Bldg., New Orleans, constructing dock, from Dalgarn Constr. Co., Louisiana Bldg., New Orleans, creosoted $34,558, creosoted and untreated $31,558, and untreated $28,300. Noted Feb. 11.

Ill., Evanston — Remodeling — Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here, from Pearson-Regnall Co., 5816 Bway., Chicago, $4,900. Noted Feb. 4.

Tex., Brownsville — Remodeling — Treas. Dept. at office Supervising Archt., Wash., D. C., Feb. 23, remodeling and enlarging U. S. Court House, Custom House, and Post Office, here, from C. Weitz Sons, 713 Mulberry St., Des Moines, Ia., (a) $11,490 (b) $6,080. Noted Jan. 28.

Calif., San Diego—Water Meter, etc.—Spec. 5165—Bureau Yards & Docks, Navy Dept., Wash., D. C., Feb. 24, water meter, tank, equipment, etc., for Naval Operating Base, (Marine Corps Base), here, from W. E. Kier Constr. Co., 8130 1st Natl. Bank Bldg., $8,083. Noted Jan. 28.

T. H., Pearl Harbor — Administration — Spec. 5149—Bureau Yards & Docks, Navy Dept., Wash., D. C., Feb. 24, extending administration, here, from W. Wills, 502 Thompson St., Seattle, Wash., $98,921. Noted Jan. 7.

C. Z., Panama—Pipe Masts—Spec. 5145—Bureau Yards & Docks, Navy Dept., Wash., D. C., Feb. 3, 2 guyed steel pipe masts for naval radio station, Cape Mala, here, from P. C. Delaney, 15 Grant Ave., Harrison, N. J., $7,230. Noted Jan. 28.

CONTRACTS AWARDED

Ky., Louisville—Metal Work—U. S. Engineer Office, Lots A, B, C, D and F metal work for Chanoine and Beartrap Weirs for Dams 46, 49 and 50, in Ohio River, to Amer. Car & Fdry. Co., Jeffersonville, Mo., $105,000; Lots E and H, to J and J. B. Mulholland Co., Pittsburgh, Pa., $17,595; and Lot G, to Wright Machine Co., Owensboro, Ky., $1,975. Grand total $124,570. Noted Jan. 14.

Mo., St. Louis—Hull—Mississippi River Comn. at office of Secretary, 1311 International Life Bldg., steel hull for steamer "Mississippi," to Howard Ship Yards & Dock Co., Jeffersonville, Mo., $52,793. Noted Jan. 21.

Calif., Santa Rosa—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here, to H. Papenhausen, 595 Victoria St., San Francisco, $16,000. Noted Feb. 18.

Unclassified

PROPOSED WORK

Car Barns and Shops—Cambridge (Boston P. O.), **Mass.**—Boston Elevated Ry. Co., E. Dana, genl. mgr., Park Sq. Bldg., Boston, plans steel and concrete car barns and shops, Fresh Pond St., here. $200,000. Work may be done by day labor.

Swimming Pool—Lawrence, Mass.—City plans swimming pool, South Lawrence. $25,000. J. E. Allen, 283 Essex St., engr.

Subway—New Britain, Conn.—City made plans subway, South Main St. from High School to Roberts St. and Franklin Sq. $45,000. J. D. Williams, city engr.

Subway—New York—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, soon takes bids subway from 8th Ave. and 53rd St., New York City, to Hancock St. and Nott Ave., Long Island City.

Water and Power Development—Niagara Falls, N. Y.—Lower Niagara River Power & Water Supply Co., Lafayette Bldg., Buffalo, F. D. Casey, pres., plans power and water development, here. $35,000,000.

Coke Ovens—Clairton (Wilson P. O.), **Pa.** —Carnegie Steel Co., Carnegie Bldg., Pittsburgh, plans 300 additional coke ovens, here. $4,000,000. Private plans.

Land Development—Biloxi, Miss.—P. M. Skremetti c/o Skremetti Realty Co. (one of promoters of project) making tentative plans developing 400 acres subdivision on island in Back Bay, incl. seawall, fill, triple arch steel and concrete bridge, paving streets, sewers, waterworks, electric lights, etc. and 250 room hotel with auditorium, 3,000 seating capacity. Private plans.

Sea Wall—Gulfport, Miss.—Harrison Co. election Mar. 9, $1,400,000 bonds, 9.93 mi. rein.-con. sea wall, incl. 41,025 ft. Type A, and 11,392 ft. Type B wall. H. D. Shaw, Gulfport, ch. engr. Noted Feb. 18.

Land Development — Henderson Point (mail Bay St. Louis), **Miss.**—C. L. Schmidt & Co., 39 South La Salle St., Chicago, Ill., C. L. Schmidt, pres., plans developing 1,400 acres, incl. streets, sidewalks dredging, bayous, here, $3,000,000. Plans later hotel, yacht club, golf course, etc. A. M. Shaw, Hibernia Bank Bldg., New Orleans, La., engr.

Lighting System — Columbus, O. — City Council plans 9 mi. each lighting system on Broad St. from east to west corporation lines and High St. from north to south corporation lines. $350,000. City appropriates $150,000 toward cost and remainder assessed on the property owners.

Subway——Springfield, Mo.—Plans election soon $121,000 bonds, constructing concrete subway on National Ave.

Park and Playgrounds—Webster Groves (Ind. br. St. Louis), **Mo.**—Election Mar. 16, $225,000 bonds, for parks, playgrounds, etc.

Voltage Line—Texas—East Texas Pub. Serv. Co., Marshall, K. Lee, genl. mgr., plans 125 mi. high voltage line from Mar-

See proposal advertisements on page 151, Advertising Section.

Unclassified (Continued)

shall to Grand Saline. $125,000. Private plans.

Land Development—Carrizo Springs, Tex.—Leinbach Bros., 2120 Dime Bank Bldg., and Verner, Wilhelm & Molby, 602 Book Bldg., Detroit, Mich., purchased 32,000 acres land and plan colonization development, etc., in Dimmit and Zavalla Counties, near here. $500,000 cost of land Natl. Constr. & Development Co., c/o Frost Bldg., San Antonio, have charge of operations and plot land, roads, wells, etc.

Grade Separations — California — State Hy. Comn., Sacramento, making plans 2 grade separations of Santa Fe R.R. at Serra, Orange Co. to connect South Coast Highway with inland route to Los Angeles and Coast Route to San Diego (cooperative project with railroad). R. M. Morton, Forum Bldg., Sacramento, highway engr.

Ornamental Lighting System — Los Angeles, Calif. — Made plans ornamental lighting system on portions of Lorraine Blvd., La Salle Ave., Woodbine and Reeves Sts., etc. $50,000, and portions of Tract 9134, Kewanee St., Holly Vista Dr., etc. $26,000; c.i. metal standards on streets in Bell-Air Dist., $25,000; metal standards on Spring St. between 1st and 9th Sts. $40,000, Olive St. between 5th and 9th Sts. and between 9th and Pico Sts. $30,000, Hill St. from 1st to 5th, 5th to 9th and 9th St. to Pico Sts. $60,000, 4th St. between Main and Hill Sts., 6th St. between Main and Bway. Sts. and between Bway. and Olive Sts. $40,000, 1st St. between Main and Hill Sts., and 6th Ave. between Vernon Ave. and 54th St. $30,000, in area bounded by Bway., Vermont, Slauson and Florence Aves. to exceed $90,000, various streets in Holmby Hills Tract $25,000, Compton Ave. between Vernon and Slauson Aves. $30,000, Beverly Blvd. in Holmby Hills Tract, and Grand Ave. between Sunset Blvd. and Temple St. $25,000, also Beverly Blvd. between 1st St. and Vermont Ave., and between Western and Rosemore Aves. $40,000.

Telephone System—Canada—Bell Telephone Co. of Canada, 118 Notre Dame St. W., Montreal, Que., plans extending telephone system incl. exchanges, new lines, etc., during the next 5 years, $87,000,000, of which $17,500,000 will be expended this year.

Water Power Development — Donacona, Que. — Donacona Paper Co., made plans 2 units, 4,500 hp. water power development. $500,000. J. A. Beauchenin, engr.

Fire Alarm System, etc.—Quebec, Que.—City plans fire alarm system and new switchboard. $35,000. W. D. Baillarge, Quebec, engr.

Electric Lighting System—St. Pierre les Becquets, Que. — Shawinigan Water & Power Co. Ltd., Shawinigan Falls, plans street and domestic electric lighting, here. $40,000. R. C. Lindsay, Shawinigan Falls, engr.

Sprinkler System—Toronto, Ont.—Plans sprinkler system in City Hall attic. $35,000. R. C. Harris, City Hall, engr.

Subway—Toronto, Ont.—Canadian Natl. Ry. 231 St. James St., Montreal, Que., making plans and soon takes bids subway on Ynoge St. in connection with Toronto Grade Separation Scheme. $500,000. C. S. Gzowski, ch. engr.

Subway — Toronto, Ont. — Canadian Pacific Ry., Windsor Sta., Montreal, Que., plans subways on Bay and York Sts. in connection with grade separation scheme, here. $1,000,000. J. M. R. Fairbairn, Windsor Sta., Montreal, Que., engr.

Freight Shed, etc. — Calgary, Alta. — Canadian Pacific Ry., Windsor St. Sta., Montreal, having plans prepared 1 story and basement, 60 x 130 ft. freight shed with 28 ft. platform, and 40 x 80 ft. express building, rein.-con. and brick, here. $100,000. Private plans. J. M. Cameron, Calgary, Alta, genl. supt.

BIDS DESIRED

Fire Alarm System—Rochester, N. Y.—Mar. 24, by State Hospital Comn., Capitol, Albany, fire alarm system for Rochester State Hospital, here; adv. E. N.-R. Mar. 4.

Subway, etc.—Wash., D. C.—Mar. 11, by Dist. Comrs., Dist. Bldg., constructing subway and bridge.

Dock—Superior, Wis.—Mar. 12, by Great Northern R.R. Co., St. Paul, Minn., 280 x 2,200 ft. steel and concrete iron ore dock, on pile and concrete foundation, etc., at Allouez Bay. $1,000,000. J. R. W. Davis, ch. engr. H. J. Seyton, resident engr.

Culverts—Primghar, Kan.—Mar. 16, by Auditor O'Brien Co., 13 concrete box culverts and extensions on Federal Aid Project 247-B, W. L. Anderson, Court House, engr.

Electric Transmission Line—Oklahoma—See "Contracts Awarded."

Gas Tank — Toronto, Ont. — See "Contracts Awarded."

BIDS RECEIVED

Platform Extensions—Brooklyn, N. Y.—Bd. Transportation J. H. Delaney, chn., 49 Lafayette St., New York City, extending station platforms, to Bway.-4th Ave. Rapid Transit R.R., Group 4, here, from Corson Constr. Co., 1440 Bway., New York City. $345,022. Noted Feb. 11.

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., Feb. 26, subway, Sect. 1, Route 102, under and along Greenwich and 8th Aves., from Bank to West 17th Sts., from Moranti & Raymond, 42 Bway. $4,160,322. Noted Feb. 18.

CONTRACTS AWARDED

Timber Flume, etc.—Brooklyn, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., constructing timber flume and signal tower foundations at Coney Island Yard, Shell Rd., here, to J. H. Duncan, Inc., 5718 2nd Ave., $271,292. Noted Feb. 25.

Heating, etc.—Ithaca, N. Y.—C. D. Bostwick, comptroller Cornell University, heating and sanitary work, under ground connections, etc., for green houses, at Dept. Floriculture and Vegetable Gardening, at New York State College of Agriculture, here, to Holleran Bros., 901 Linden Pl., Elmira, N. Y., $14,890. Noted Feb. 25.

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., subway Sect. 4-A, Route 78, under and along St. Nicholas Ave. from West 141st to 149th St., to La Rocca Constr. Co., 576 Exterior St. $4,680,064. Noted Feb. 4.

Excavation and Foundation — Madison, Wis. — Beecroft Building Co., 6 West Mifflin St., excavation and foundation for 1 story, rein.-con., brick and steel theatre, plain foundation, State St., to J. H. Kelly, 24 East Mifflin St. Noted Jan. 14 under "Buildings—Commercial."

Electric Transmission Line—Oklahoma—City of Cleo Springs, election Mar. 12, $25,000 bonds, 14 mi. transmission line from Cleo Springs to Fairview and distribution system in Cleo Springs. H. G. Olmsted, 2230 West 18th St., Oklahoma City, engr.

Electric Transmission Line—Oklahoma—Inland Utilities Co., Elk City, will build 21 mi. electric trnasmission line from Leedy to Hammon, by day labor. $35,000. J. D. Bornford, Elk City, engr.

Lighting System — Alhambra, Calif. — Ornamental street lighting system in Emery Park Dist., to J. R. Davies, 2131 Santee St., Los Angeles, $44,200. Noted Jan. 28.

Conduits, etc.—Beverly Hills, Calif.—G. Reed Co., underground conduits in Beverly Crest Tract, 42,000 ft. 3 in. and 41,000 2 in. fibre conduit, 3,000 1½ in. black iron pipe, etc., to E. A. Irish, I. W. Hellman Bldg., Los Angeles, $26,596.

Ornamental Lighting System — Long Beach, Calif. — Constructing ornamental lighting system on Locust Ave. between 10th St. and Ocean Blvd., to J. C. Perry, Detwiler Bldg., Los Angeles, $33,730. Noted Feb. 25.

Gas Tank — Toronto, Ont. — Consumers Gas Co., 19 Toronto St., will build gas tank and gas meter, by day labor, concrete foundation, to Russell Constr. Co., Harbor Bldg., $40,000. Engrs. total est. $100,000.

Materials

PROPOSED WORK

Road Oil — Nashville, Tenn. — Bd. Pub. Wks. soon takes bids road oil for 1926 supply. $15,000. H. E. Howse, mayor.

Road Oil—Farmington, Ill.—See "Streets and Roads."

Road Oil — Knoxville, Ill. — See "Streets and Roads."

BIDS DESIRED

Paving Materials, etc.—Buffalo, N. Y.—Mar. 11, by Commissioner Pub. Wks., paving, stone, curbing, sand grit, gravel, crushed stone, bitumen for top dressing, etc., for year ending Dec. 31, 1926. C. E. P. Babcock, Municipal Bldg., engr.

Lumber—Jones, La.—Apr. 6, by Police Jury Morehouse Parish, Bastrop, J. W. Brodnax, pres., 39,000 ft. creosoted lumber, 4,300 ft. creosoted piling and 28,000 ft. untreated lumber, for Project 77, delivered on Missouri Pacific R.R., here.

Limestone—Chicago, Ill.—Mar. 10, by City, City Hall, crushed limestone required for the year. A. A. Sprague, comr.

Road Oil—Chicago, Ill.—Mar. 9, by City, City Hall, petroleum distillate oil and road oil required for the year. A. A. Sprague, comr.

Road Tar—La Crosse, Wis.—Mar. 9, by J. Hintgen, highway comr. La Crosse Co., season's supply of road tar.

Road Oil—Sturgeon Bay, Wis.—Mar. 20, by E. S. Ackerman, city clk., 10,000 gal. oil for dirt and 30,000 gal. oil for macadam roads.

Bituminous Material, etc.—Iowa—Mar. 16, by State Hy. Dept., Ames, bituminous material, paints, and truck tires for maintenance work. F. R. White, ch. engr.

Oils, etc.—Iowa—Mar. 9, by State Hy. Dept., Ames, gasoline, kerosene and lubricating oils and greases for maintenance work. F. R. White, ch. engr.

Road Signs — Minnesota — Mar. 15, by State Hy. Dept., St. Paul, road signs for state roads.

Pipe — Dallas, Tex. — City, c/o M. G. James, secy., taking bids 20,000 ft. ¾ in. and 5,000 ft. each 1 and 2 in. wrought iron pipe.

Pipe—Montreal, Que.——Mar. 22, by Chairman Executive Com., 2,400 lin.ft. 4 in., 7,200 lin.ft. 6 in., 60,000 lin.ft. 8 in., 7,200 lin.ft. 10 in., and 1,200 lin.ft. 12 in. c.i. pipe.

Asphalt, etc.—London, Ont.—Mar. 9, by W. P. Near, engr., City Hall, in market refined asphalt, Portland cement, sewer pipe, road oil, broken stone, limestone, tile and iron castings. $200,000. Noted Nov. 12.

BIDS RECEIVED

Asphaltic Cement—St. George, N. Y.—J. A. Lynch, pres. Richmond Boro, Boro Hall, Feb. 24, from J. E. Donovan, 2205 Richmond Terrace, Port Richmond, 276,000 gal. asphaltic binder $38,640, 2,600 cu.yd. 1½ in. stone $8,450, 450 cu.yd. ¾ in. stone $1,462, 500 cu.yd. screenings $1,625, 1,850 cu.yd. trap rock screenings $7,400 and 1,650 cu.yd. gravel for Dist. 1, $4,125; from Liberty Mason Supply Co., 67 Grant St., 1,100 cu.yd. concrete sand $2,453, 3,800 cu.yd. 1½ in. stone $11,932, 225 cu.yd. ¾ in. stone $707, 225 cu.yd. screenings $707; from Hygrade Builders Supply Co., 6th St. and 2nd Ave., Brooklyn, 3,900 cu.yd. 1½ in. stone $15,132, 175 cu.yd. ¾ in. stone $679, and 150 cu.yd. screenings $582; from J. Johnson Sons, 455 Bway., West New Brighton, 1,700 cu.yd. pea gravel for Dist. 2 $5,015 and 1,850 cu.yd. pea gravel for Dist. 3, $5,365, from Standard Oil Co., 26 Bway., New York City, 300 tons ahphaltic cement $6,768; and from F. J. Lewis Mfg. Co., Eastern Blvd. and 177th St., New York City, 100,000 gal. road material $10,200. Noted Feb. 18.

Road Oil—Marshfield, Wis.—J. A. Schindler, city clk., Feb. 11, 5 car loads or more road oil, from Marshfield Oil Co., Marshfield, at $0.0617 per gal. Noted Feb. 4.

Cement and Sewer Brick—St. Paul, Minn.—A. E. Eggert, city purch. agt., Feb. 9, 1,830 bbl. Portland cement, from Speakes Co., Griggs and Fuller Sts. and four other bidders, each $2.45 per bbl. on cars and $2.60 delivered, 5% cash discount; and 110,000 sewer bricks, from Twin City Brick Co., 515 Pioneer Bldg. and four other bidders, each $16.10 per M. Noted Feb. 4.

CONTRACTS AWARDED

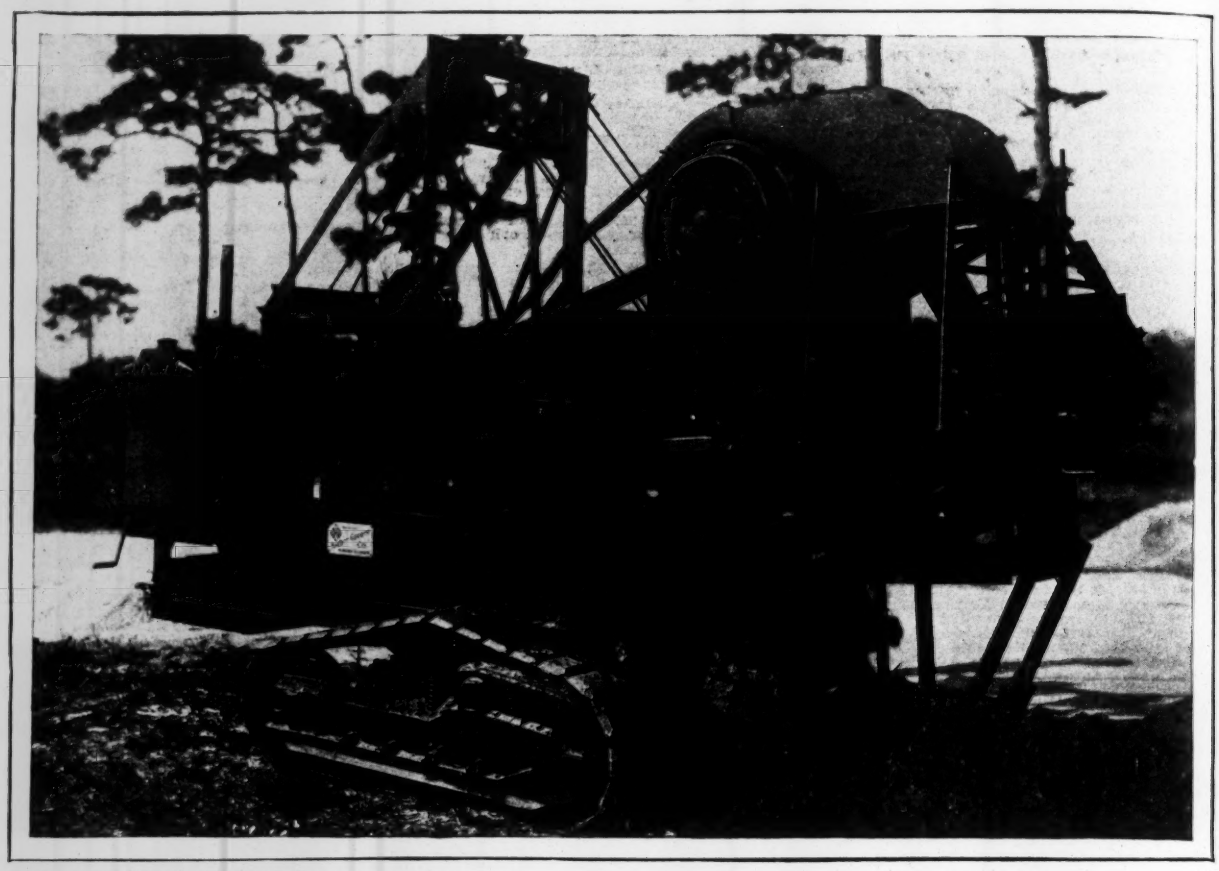
Sand Grit—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., 3,000 cu.yd. sand grit and 3,000 cu.yd. concrete and paving sand, to Rosoff Sand & Gravel Co., 152 West 42nd St., New York City, $4,335 each. Noted Feb. 25.

Steel—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., structural steel for Sect. 4A, Route 78, portion Rapid Transit R.R., to Bethlehem Steel Co., Inc., 25 Bway., $452,340. Noted Dec. 31.

Timber—New Orleans, La.—Port Comrs., approximately 233,000 ft. creosoted timber, to Gulf States Creosote Co., Whitney Bldg., $17,077. Noted Feb. 2.

Pipe, etc.—Toronto, Ont.—T. Foster, mayor and chn. Bd. Control, City Hall, to Natl. Iron Corp. foot Cherry St., 30 lengths 30 in. pipe at $146 per length, 239 lengths 20 in. extra heavy pipe with flanges $139.80, and 300 lengths 8 in. bell and spigot at $29.80; to Canada Metal Co., 39 Fraser Ave., Tobin bronze castings at $0.26 per lb.; to Petrie Brass Wks., 63 Sterling Rd., brass castings $0.19¼ per lb. Engrs. est. $50,000.

See proposal advertisements on page 151, Advertising Section.



Buda-equipped Barber-Greene ditcher

On to Florida

In Florida, where everything is labelled "rush," development work must be finished with speed and dispatch.

The Barber-Greene ditcher shown here was used in opening gas main trenches through coral rock in Florida. This machine worked out so well—saving time and cutting costs—that the Barber-Greene Company received orders for five more Buda-equipped ditchers to be used in Miami on similar work.

Contractors who must get their work done on time insist on Buda-powered equipment. Buda power plants range in size from 20 to 87 Horse Power. Write for a copy of our power plant bulletin.

THE BUDA COMPANY, HARVEY CHICAGO SUBURB ILLINOIS
ESTABLISHED 1881

Buy only genuine Buda Parts for your Buda engines

BUDA
The
ENGINE

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Buildings for various departments, Washington, D. C., Treas. Dept. plans buildings, total $26,000,000.

Refinery, Indiana, Roxana Petroleum Corp., St. Louis, Mo., plans oil refinery, $7,000,000.

School buildings, Cleveland, O., Case School of Applied Science having plans prepared, $5,000,000.

Motor device factory, Cicero, Ill., Stromberg Motor Devices Co. having plans prepared, $4,000,000.

Hotel and store, Albany, N. Y., Metropolitan Realty Co., N. Y. C., having plans prepared, $4,000,000.

Hotel, New York, N. Y., Luigi Gerbino having plans prepared, $4,000,000.

Exposition building, Des Moines, Ia., G. E. Hamilton, Convention Secy., plans building, $2,000,000-$3,000,000.

Hotel, San Antonio, Tex., St. Anthony Hotel having plans prepared, $1,600,000.

Exchange and office, Stockton, Calif., Pacific Telegraph and Telephone Co. having plans prepared, $1,500,000.

Club, hotel and theatre, San Antonio, Tex., San Antonio Turn Verein Club having plans prepared, $1,500,000.

Apartment, Brooklyn, N. Y., Brooklyn Realty Co. having plans prepared, $1,500,000.

Bids Wanted

Hospital buildings, Chicago, Ill., Mar. 29, H. A. Zender, supt. Public Service, Cook Co., total $2,500,000.

Club, Chicago, Ill., about April 1, Michaelson & Rogustod, archts. for Mid-West Athletic Club, $2,500,000.

Apartment, Chicago, Ill., Guske & Foster, archts., taking bids for P. M. Gordon, $2,450,000.

Apartment hotel, Chicago, Ill., W. Reichert, archt., preparing plans and takes bids April or May, $2,000,000.

Paving, Durham, N. C., April 1, City Council, $1,000,000.

Contracts

Depot, Cleveland, O., D. Jonett, engr., to J. Gill & Sons, $8,000,000.

Hotel, Detroit, Mich., Detroit Hotel Co. to Lundoff Bicknell Co., Cleveland, O., $3,500,000.

Hotel, New York, N. Y., S. Jacobs to Schroeder & Koppel, Inc., $3,000,000.

Bank and office, Washington, D. C., Coolidge, Shepley, Bulfinch & Abbott, archts., to Boyle Robertson Contr. Co., $2,000,000.

Classified Index of Bids Wanted

Waterworks

Bids close — *See Eng. News-Record*

Mar. 12 Dayton, O. ..... Mar. 11
Mar. 12 Long Island City, N. Y. ..... Mar. 11
Mar. 12 New York City, N. Y. ..... Mar. 11
Mar. 12 St. George, N. Y. ..... Mar. 11
Mar. 15 St. Paul, Minn. ..... Mar. 11
Mar. 15 Kenosha, Wis. ..... Mar. 11
Mar. 15 Knoxville, Tenn. ..... Mar. 11
Mar. 15 Warren, Mich. ..... Mar. 11
Mar. 15 Fairmont, Minn. ..... Mar. 11
Mar. 15 Crane, Mo. ..... Feb. 18
Mar. 15 Edmonton, Alta. ..... Feb. 25
Mar. 15 Chicago, Ill. ..... Mar. 11
Mar. 16 St. Louis, Mo. ..... Feb. 25
Mar. 16 Perry, Fla. ..... Mar. 11
Mar. 16 Phila., Pa. ..... Mar. 11
Mar. 17 Baltimore, Md. ..... Mar. 11
Mar. 17 Cleveland, O. ..... Mar. 11
Mar. 17 Saugerties, N. Y. ..... Feb. 25
Mar. 17 Wilmington, Del. ..... Feb. 25
Mar. 18 Cincinnati, O. ..... Mar. 11
Mar. 18 Puyallup, Wash. ..... Mar. 11
Mar. 19 Abilene, Tex. ..... Mar. 11
Adv. Mar. 4 and 11.
Mar. 19 Holyoke, Mass. ..... Mar. 11
Mar. 19 Virginia ..... Mar. 11
Adv. Mar. 11.
Mar. 19 Cleveland, O. ..... Mar. 11
Mar. 22 San Diego, Calif. ..... Mar. 4
Mar. 22 Wolf Point, Mont. ..... Mar. 4
Adv. Mar. 4 and 11.
Mar. 22 Yonkers, N. Y. ..... Mar. 4
Adv. Mar. 4 and 11.
Mar. 23 Detroit, Mich. ..... Mar. 11
Mar. 23 Long Beach, Miss. ..... Mar. 11
Mar. 23 Akron, O. ..... Mar. 11
Mar. 26 East Paterson, N. J. ..... Feb. 18
Mar. 26 Wash., D. C. ..... Mar. 4
Adv. Mar. 4 and 11.
Mar. 26 Wash., D. C. ..... Mar. 11
Adv. Mar. 11.
Mar. 29 Waite Park, Minn. ..... Mar. 11
Mar. 30 Tampa, Fla. ..... Mar. 11
Adv. Mar. 11.
Mar. 31 Warsaw, Ill. ..... Mar. 4
Mar. 31 Decatur, Ill. ..... Mar. 11
Adv. Mar. 11.

Sewers

Mar. 12 Dayton, O. ..... Mar. 11
Mar. 13 Milwaukee, Wis. ..... Mar. 11
Mar. 15 Detroit, Mich. ..... Mar. 11
Mar. 15 Waco, Tex. ..... Jan. 21
Mar. 16 West Palm Beach, Fla. ..... Feb. 18
Adv. Feb. 18 to Mar. 11.
Mar. 16 Barrington, Ill. ..... Mar. 4
Mar. 17 Wichita Falls, Tex. ..... Feb. 25
Mar. 17 Cleveland, O. ..... Mar. 11
Mar. 17 Baltimore, Md. ..... Mar. 11
Mar. 18 Akron, O. ..... Mar. 11
Mar. 18 Chicago, Ill. ..... Mar. 4
Mar. 23 Paris, Ark. ..... Mar. 11

Bids close — *See Eng. News-Record*

Mar. 24 Kansas City, Mo. ..... Mar. 4
Adv. Mar. 4 and 11.
Mar. 25 Sioux Falls, S. D. ..... Mar. 4
Adv. Mar. 4 and 11.
Apr. 5 Coatesville, Pa. ..... Mar. 11
Adv. Mar. 11.
Apr. 7 Rye, N. Y. ..... Mar. 11
Adv. Mar. 11.

Waste Disposal

Mar. 12 Cleveland, O. ..... Mar. 11

Bridges

Mar. 16 South Carolina ..... Feb. 25
Mar. 16 Walters, Okla. ..... Mar. 11
Mar. 16 Missouri ..... Mar. 11
Mar. 16 Oklahoma ..... Mar. 11
Mar. 18 Laverne, Okla. ..... Feb. 11
Mar. 19 Ohio ..... Mar. 11
Mar. 22 California ..... Mar. 11
Mar. 23 Louisiana ..... Mar. 11
Mar. 23 Texas ..... Mar. 11
Mar. 29 San Antonio, Tex. ..... Mar. 11
Mar. 29 Camden, N. J. ..... Mar. 11
Adv. Mar. 11.
Mar. 30 Tampa, Fla. ..... Feb. 25
Mar. 30 Louisiana ..... Feb. 25
Adv. Feb. 25 and Mar. 4.
Mar. 30 Poughkeepsie, N. Y. ..... Mar. 4
Adv. Mar. 4 and 11.
Mar. 30 Louisiana ..... Mar. 4
Apr. 6 Jones, La. ..... Mar. 4
Apr. 6 St. Louis, Mo. ..... Mar. 11

Excavation, Drainage, Irrigation, Levees, River and Harbor

Mar. 15 Orange, Tex. ..... Mar. 11
Mar. 16 New Jersey ..... Mar. 4
Mar. 17 Milwaukee, Wis. ..... Mar. 11
Mar. 18 Schuyler, Neb. ..... Mar. 11
Mar. 18 New York City, N. Y. ..... Mar. 11
Adv. Mar. 11.
Mar. 19 British Columbia ..... Mar. 11
Mar. 20 Nebraska ..... Mar. 11
Mar. 25 Hammond, La. ..... Mar. 4
Mar. 26 Shreveport, La. ..... Mar. 11
Apr. 5 Peru, Ind. ..... Mar. 4
Adv. Mar. 4.
Apr. 8 New York City, N. Y. ..... Mar. 11
Adv. Mar. 11.

Streets and Roads

Mar. 12 Cincinnati, O. ..... Mar. 11
Mar. 15 Charleston, W. Va. ..... Mar. 11
Mar. 15 Anderson, Ind. ..... Mar. 4
Mar. 15 Summerville, W. Va. ..... Feb. 25
Mar. 15 Florida ..... Feb. 25
Mar. 15 Oklahoma ..... Feb. 25
Mar. 15 Reno, Nev. ..... Mar. 4
Mar. 15 Okemah, Okla. ..... Mar. 4
Mar. 15 South St. Paul, Minn. ..... Mar. 11

Bids close — *See Eng. News-Record*

Mar. 16 Missouri ..... Mar. 11
Mar. 16 Oshkosh, Wis. ..... Mar. 11
Mar. 16 Michigan ..... Mar. 4
Mar. 16 West Virginia ..... Feb. 25
Mar. 16 Louisiana ..... Feb. 18
Mar. 16 St. Louis, Mo. ..... Feb. 25
Mar. 16 Sheboygan Falls, Wis. ..... Mar. 4
Mar. 16 Montana ..... Mar. 4
Mar. 16 Washington ..... Mar. 4
Mar. 16 Minnesota, Wis. ..... Mar. 11
Mar. 16 Oklahoma ..... Mar. 11
Mar. 16 Trenton, N. J. ..... Mar. 11
Mar. 17 North Dakota ..... Mar. 11
Mar. 17 Rhode Island ..... Mar. 4
Adv. Mar. 4 and 11.
Mar. 17 Baltimore, Md. ..... Mar. 11
Mar. 18 New York City, N. Y. ..... Mar. 11
Mar. 18 North Dakota ..... Mar. 11
Mar. 18 Russel Springs, Kan. ..... Mar. 11
Mar. 18 Illinois ..... Mar. 11
Mar. 19 North Dakota ..... Mar. 11
Mar. 19 Joliet, Ill. ..... Mar. 4
Mar. 19 Winfield, Kan. ..... Feb. 25
Mar. 19 Cleburne, Tex. ..... Mar. 4
Mar. 19 Ohio ..... Mar. 11
Mar. 19 Cincinnati, O. ..... Mar. 11
Mar. 20 Idaho ..... Mar. 11
Mar. 22 New Jersey ..... Mar. 4
Adv. Mar. 4 and 11.
Mar. 22 Ontario ..... Mar. 11
Mar. 22 Texas ..... Mar. 11
Mar. 22 Dayton, O. ..... Mar. 11
Mar. 22 California ..... Mar. 11
Mar. 23 Larned, Kan. ..... Mar. 4
Mar. 23 Pennsylvania ..... Feb. 25
Adv. Feb. 25 to Mar. 11.
Mar. 23 Bastrop, La. ..... Mar. 11
Mar. 23 Sigourney, Ia. ..... Mar. 11
Mar. 23 Williamson, W. Va. ..... Mar. 11
Mar. 23 Louisiana ..... Mar. 11
Mar. 23 Indiana ..... Mar. 11
Mar. 23 Elkhart, Ind. ..... Mar. 11
Mar. 24 Smithfield, N. C. ..... Mar. 11
Mar. 24 Holton, Kan. ..... Mar. 4
Mar. 24 North Dakota ..... Mar. 11
Mar. 24 Hastings, Minn. ..... Mar. 11
Mar. 25 Florida ..... Feb. 18
Mar. 25 Biloxi, Miss. ..... Mar. 11
Mar. 26 Hays, Kan. ..... Mar. 4
Mar. 26 Huntington, W. Va. ..... Mar. 11
Mar. 26 North Dakota ..... Mar. 11
Mar. 27 Hoxie, Kan. ..... Mar. 11
Mar. 29 Oskaloosa, Kan. ..... Mar. 4
Mar. 30 Ottawa, Kan. ..... Mar. 4
Mar. 31 Erie, Kan. ..... Mar. 4
Apr. 2 Iola, Kan. ..... Mar. 11
Apr. 5 Coatesville, Pa. ..... Mar. 11
Adv. Mar. 11.
Apr. 6 Winona, Miss. ..... Mar. 11
Apr. 6 Louisiana ..... Mar. 11
Apr. 8 Winfield, Kan. ..... Mar. 11
Apr. 12 Kentucky ..... Mar. 11
Apr. 12 Akron, O. ..... Mar. 11
Apr. 15 Birmingham, Ala. ..... Mar. 11
Apr. 20 Birmingham, Ala. ..... Mar. 11

See proposed advertising on page 134, Advertising Section

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

16-in. c. i. B&S water main laid with LEADITE joints, tested to 195 lbs. water pressure.

Pipe Joint Knowledge

LEADITE is recognized to be the best material for making joints in cast iron bell and spigot water mains by thousands of water works men thruout the world.

Water works men who keep a check on their systems and make water waste surveys know that their pipe lines laid with LEADITE are tight.

Their experience with LEADITE has proven to them that LEADITE joints improve with age, and that the joints do not corrode or rust.

They know that LEADITE has been successfully tested and used for over 30 years.

They know LEADITE will flow around a 60-in. pipe just as easily as it does around a 4-in. pipe; size does not make any difference. They know LEADITE fills every crevice of the joint.

They know LEADITE eliminates the expense and drudgery of caulking.

They know the simplicity, economy and efficiency with which LEADITE can be used.

Give LEADITE a fair trial and convince yourself of its merit and many advantages.

Join the LEADITE users.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking Material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Buildings—Commercial

Bids close — *See Eng. News-Record*

Mar. 12 Trenton, N. J. .....Mar. 4
Mar. 13 Milwaukee, Wis. .....Mar. 4
Mar. 15 Altoona, Pa. .....Feb. 11
Mar. 15 Muncie, Ind. .....Feb. 18
Mar. 15 Los Angeles, Calif. .....Mar. 4
Mar. 15 Glen Ellyn, Ill. .....Mar. 11
Mar. 15 Marquette, Mich. .....Mar. 11
Mar. 15 Williamsport, Pa. .....Mar. 4
Mar. 16 Phila., Pa. .....Mar. 11
Mar. 16 Davenport, Ia. .....Mar. 11
Mar. 18 Catonsville (br. Baltimore), Md. .....Mar. 4
Mar. 18 Highland Park (Br. Detroit), Mich. .....Mar. 11
Mar. 20 West Springfield (br. Springfield), Mass. .....Mar. 4
Mar. 20 Fairfield, Ala. .....Mar. 11
Mar. 22 Arapaho, Okla. .....Mar. 11
Mar. 22 Sykesville, Md. .....Mar. 11
Mar. 25 Anniston, Ala. .....Mar. 4
Mar. 29 Chicago, Ill. .....Mar. 11
Mar. 31 Mobile, Ala. .....Mar. 11
Adv. Mar. 11.
Apr. 1 Gulfport, Miss. .....Mar. 4
Apr. 1 Lakewood (br. Cleveland), O. .....Feb. 11
Apr. 1 Moline, Ill. .....Jan. 14
Apr. 1 Youngstown, O. .....Dec. 31

Buildings—Industrial

Mar. 13 Phila., Pa. .....Mar. 11
Mar. 15 New Orleans, La. .....Mar. 4
Mar. 15 Des Moines, Ia. .....Mar. 4
Mar. 15 Lankershim, Calif. .....Feb. 25

Buildings—Educational, Religious

Mar. 13 Lakewood (Cleveland P. O.), O. .....Feb. 25
Mar. 15 Lewistown, Pa. .....Jan. 21
Mar. 15 Ypsilanti, Mich. .....Mar. 4
Mar. 16 Chicago, Ill. .....Mar. 4
Mar. 16 Wash., D. C. .....Mar. 11
Mar. 17 Anderson, Ind. .....Mar. 4
Mar. 17 Baltimore, Md. .....Mar. 4
Mar. 17 Los Angeles, Calif. .....Mar. 11
Mar. 19 Dayton, O. .....Feb. 25
Mar. 22 East Cleveland (Cleveland P. O.), O. .....Mar. 4
Mar. 23 Hillside, Ill. .....Mar. 11
Mar. 23 Ferndale (Br. Detroit), Mich. .....Mar. 11
Mar. 23 Florida .....Mar. 11
Mar. 24 New Brunswick, N. J. .....Mar. 11
Mar. 26 Nutley, N. J. (br. Newark).Mar. 11
Mar. 26 Cliffside Park (mail Cliffside), N. J. .....Mar. 11
Mar. 29 Fowler, Ind. .....Mar. 11
Apr. 14 Fordson (Detroit P. O.), Mich. .....Mar. 4

Federal Government Work

Mar. 15 Remodeling—Mobile, Ala...Feb. 25
Mar. 15 Dam—Louisville, Ky.....Feb. 18
Adv. Feb. 18 to Mar. 11.
Mar. 15 Steel, etc.—Wash., D. C...Mar. 11
Mar. 16 Wicket Irons, etc.—Louisville, Ky. .....Mar. 4
Adv. Mar. 4 and 11.
Mar. 16 Walks—Camp Custer (br. Battle Creek), Mich.....Mar. 4
Mar. 17 Radio Tower — Eureka, Calif. .....Mar. 4
Mar. 17 Dredging—Toledo, O. .....Feb. 18
Adv. Feb. 18 to Mar. 11.
Mar. 19 Remodeling — St. Augustine, Fla. .....Mar. 11
Mar. 22 Remodeling — Lebanon, Pa. .....Mar. 11
Mar. 22 Foundations—Dayton, O...Feb. 25
Adv. Feb. 25 to Mar. 11.
Mar. 23 Vestibule, etc. — Lima, O. .....Mar. 11
Mar. 23 Deep Well—Northport, N. Y. .....Mar. 11
Mar. 24 Vestibule, etc.—Joplin, Mo.Mar. 11
Mar. 24 Ash Handling Equipment — Great Lakes (br. Waukegan), Ill. .....Mar. 4
Mar. 25 Storehouse—Baltimore, Md. .....Mar. 11
Mar. 25 Roadway—Florence, Ala..Mar. 4
Adv. Mar. 4 and 11.
Mar. 25 Ejector Station—Staten Island, N. Y. .....Mar. 11
Adv. Mar. 11.
Mar. 26 Remodeling — Torrington, Conn. .....Mar. 11
Adv. Mar. 11.
Mar. 27 Remodeling—Fort Wayne, Ind. .....Mar. 4
Mar. 29 Gates—Denver, Colo.....Mar. 4
Mar. 29 Vestibule—Lorain, O.....Mar. 11
Mar. 31 Remodeling—Lynn, Mass...Mar. 11
Mar. 31 Barges—St. Louis, Mo.....Mar. 11
Adv. Mar. 11.
Apr. 1 Cruiser, etc.—Wash., D. C.Feb. 25
Apr. 12 Dredging — Hartford, Conn. .....Mar. 11
Adv. Mar. 11.

Unclassified

Bids close — *See Eng. News-Record*

Mar. 15 Elimination Grade Crossing —Buffalo, N. Y. .....Mar. 11
Mar. 16 Culverts—Primghar, Ia....Mar. 4
Mar. 16 Electrical Equipment and Breakwater—Chicago, Ill..Mar. 11
Mar. 18 Lighting System—Gouverneur, N. Y. .....Feb. 18
Mar. 23 Panels, Filters, etc.—Wellington, N. Z. .....Jan. 21
Mar. 24 Fire Alarm System—Rochester, N. Y. .....Mar. 4
Adv. Mar. 4 and 11.
Mar. 29 Lighting System—Elmhurst, Ill. .....Mar. 11

Materials

Mar. 13 Filler, etc.—Kenosha, Wis..Mar. 11
Mar. 15 Cable, etc.—Milwaukee, Wis. .....Mar. 11
Mar. 15 Road Oil, etc.—Milwaukee, Wis. .....Mar. 11
Mar. 15 Wire—Kenosha, Wis.....Mar. 11
Mar. 15 Paving Material—Phila., Pa. .....Mar. 11
Mar. 15 Trap Rock, Gravel, etc. — Minneapolis, Minn. .....Mar. 11
Mar. 15 Road Signs—Minnesota...Mar. 4
Mar. 16 Paints, etc.—Iowa .....Mar. 4
Mar. 16 Road Material, etc.—Memphis, Tenn. .....Mar. 11
Mar. 16 Creosoted Ties—Phila., Pa.Mar. 11
Mar. 16 Lumber, etc.—New York City, N. Y. .....Mar. 11
Mar. 17 Portland Cement, etc.—Brooklyn, N. Y. .....Mar. 11
Mar. 17 Paving Blocks—Baltimore, Md. .....Mar. 11
Mar. 18 Road Oil—Minneapolis, Minn. .....Mar. 11
Mar. 19 Rail, Timber, etc.—New York City, N. Y. .....Mar. 11
Mar. 19 Lumber, Gravel, Stone, etc.—Indianapolis, Ind. .....Mar. 11
Mar. 19 Cast Iron Pipe—Cleveland, O. .....Mar. 11
Mar. 20 Road Oil—Sturgeon Bay, Wis. .....Mar. 4
Mar. 22 Pipe—Montreal, Que.....Mar. 4
Mar. 23 Paving Blocks—Detroit, Mich. .....Mar. 11
Apr. 6 Lumber—Jones, La. .....Mar. 4

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Waterworks

Proposed Work

Mass., Amesbury—Plans additional water supply and filtration plant. $150,000 appropriated. Engineer not selected.

Mass., Falmouth — Plans 300,000 gal. standpipe, $32,000; pumping engine (Fall), $38,000; and 4- to 12-in. pipe lines $91,000, additional work $40,000. Richardson & Gay, 220 Devonshire St., Boston, consult. engrs.

Mass., North Adams — Plans water meters. $10,000 appropriated.

N. J., Paulsboro—Boro Council plans 2 pumping stations and new standpipe. $150,000. Engineer not selected.

Pa., Ebensburg — Plans filtration plant. $45,000. Hudson & Myron, 802 Wabash Bldg., Pittsburgh, engrs.

Pa., Liberty—Plans complete distribution system, standpipe and supply. $40,000. Hudson & Myron, 802 Wabash Bldg., Pittsburgh, engrs.

Pa., McKeesport — Making plans additional supply line from Monongahela intake. $250,000. Hudson & Myron, 802 Wabash Bldg., Pittsburgh, engrs.

Pa., Port Vue (McKeesport P. O.)—Plans improving waterworks, incl. tank, pipe lines and appurtenances, etc. $40,000. Hudson & Myron, 802 Wabash Bldg., Pittsburgh, engrs.

Pa., Saltsburg — Plans filtration plant. $25,000. Hudson & Myron, 802 Wabash Bldg., Pittsburgh, engrs.

Pa., Tarentum — See "Buildings — Industrial."

Fla., Ft. Meade — Voted $35,000 bonds, extending mains in various streets. Noted Jan. 21.

Fla., Key West—Bd. Trustees Monroe Co., Water Supply Dist., C. D. Stearns, chn., wants proposition for engineers for securing fresh water supply for Key West and other Keys, either by constructing pipe line from Mainland or granting of franchise for supplying the water.

Fla., Perry — Election Mar. 16, $25,000 bonds extending waterworks. C. L. Brandow, mayor.

Fla., Pompano—Election Mar. 16, $100,000 bonds, waterworks. L. E. Raines, city clk.

Miss., Webb — Plans election $35,000 bonds, new waterworks. H. A. Mentz, Hammond, La., consult. engr.

O., Cleveland—See "Sewers."

O., Hamilton — Service Director, City Hall, in market 1 centrifugal water pump for booster station. $10,000.

Ill., Christopher — Takes bids in April, 4.25 mi. 4 in. c.i. mains, etc., in various streets. $36,800. C. B. Mautz, Benton, engr.

Ill., Harvard — Making plans rein.-con. storage reservoir, 60 ft. diam., 10½ ft. deep, rein.-con. slab cover. Mead & Seastone, Journal Bldg., Madison, engr.

Wis., Beloit—Beloit Water, Gas & Electric Co., A. Dobson, mgr., plans drilling well, 1,000 ft. deep and 2 m.g. capacity, for additional water supply, also 1,000 g.p.m. pump. $25,000. Engineer not selected.

Kan., Eldorado—Election Mar. 16, about $450,000 bonds, new dam across Willow Creek, pumps, pipe line filter plant improvements, etc. Black & Veatch, 701 Mutual Bldg., Kansas City, Mo., engrs. Noted Jan. 7.

Kan., Girard — Plans water softening plant. To exceed $5,000.

Kan., Hillsboro—Election Mar. 16, $102,600 bonds, waterworks. F. E. Devlin, Bitting Bldg., Wichita, engr.

N. D., Crosby — Election Apr. 5, $35,000 bonds, waterworks. O. Woolfrey, city aud. Noted Feb. 25.

N. D., Mandan—Election Mar. 15, $165,000 bonds, improving waterworks, incl. filtration plant and extending mains, etc. Noted Jan. 28.

Mo., Chaffee — Election Apr. 6, $60,000 bonds, drilling artesian well, new electrically driven pumping unit, 4 and 6 in. c.i. mains, extension to sewerage system. F. R. Nohl, resident engr. C. E. Smith & Co., Ry. Exch. Bldg., St. Louis, consult. engr.

Mo., Norborne — Plans election $80,000 bonds, waterworks and sewerage system.

Mo., Seymour — Plans election $30,000 bonds, complete waterworks and distribution system.

Tex., Nacogdoches—Voted $50,000 bonds, waterworks improvements. Addressed W. I. Baker, Nacogdoches, mayor.

Tex., O'Donnell — Voted $27,500 bonds, complete waterworks. Devlin Eng. Co., Amarillo, engrs.

Tex., St. Jo—Made plans 5 mi. 4- to 8-in. mains, new deep well, 50,000 gal. tank on 100 ft. tower $55,000. Douglas & Davenport, c/o Ward Bldg., Wichita Falls, engrs.

Tex., Seagoville — Voted $30,000 bonds, complete waterworks. Municipal Eng. Co., 1107 Athletic Club Bldg., Dallas, engrs.

Okla., Achille—Making preliminary plans new waterworks. $20,000. J. G. Crossley, mayor. Engineer not selected.

Okla., Altus—Soon takes bids new water supply from Wichita Mountains at Lugert and main extensions. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., consult. engrs. Noted Nov. 26.

Okla., Antlers—Making preliminary plans settling basin and filter equipment. $17,500. C. E. Stephenson, mayor. Engineer not announced.

Okla., Blair — Made preliminary plans new waterworks, connecting with Altus supply. Election soon $65,000 bonds for same. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Collinsville — Election Mar. 11, $81,000 bonds, new pumps and power plant extensions, etc. Holway Eng. Co., Wright Bldg., Tulsa, engrs. Noted Dec. 10.

Okla., Eldorado — Making plans waterworks and paving various streets. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., consult. engrs.

Okla., Fairmont — Making preliminary plans new waterworks. $18,000. J. J. Gordon, mayor. Engineer not selected.

Okla., Salina—Voted $45,000 bonds, new waterworks. C. E. Lindsay, mayor. Engineer not announced.

Calif., Burlingame—Plans election $225,000 bonds, improving and extending water system.

See classified index on bids wanted on page 131

Double-Quick Concrete

Engineering News-Record Comments Editorially on Quick-Hardening Concrete

"Thus we have in 3 days a concrete workable and usable which is as strong as normal 28-day concrete," says an editorial in *Engineering News-Record,* February 18, p. 266, in commenting on the quick-hardening concrete made with standard *Universal* cement, the same quality *Universal* as regularly used.

The methods for obtaining this concrete are easily understood but to get best results must be applied with care, cautions *Engineering News-Record,* and adds that "the series of tests on which the Universal company is basing its campaign are well authenticated."

Detailed information on this time-saving concrete made with standard *Universal* cement gladly furnished on request to

Universal Portland Cement Co.

Chicago—Pittsburgh—Minneapolis—Duluth—Cleveland—New York

Concrete for Permanence

Waterworks (Continued)

Calif., Garden Grove — Voted $50,000 bonds, mains, etc. in various streets for Garden Grove Water Works Dist. 3. Noted Dec. 31.

Calif., Laguna Beach — Making plans deep wells and pumping plants in Santa Ana River basin, 12 mi. pipe line from Santa Ana River basin to district lands, one 1½ m.g. and three 100,000 gal. reservoirs. J. B. Lippincott, Petroleum Securities Bldg., Los Angeles, engr.

Calif., Monticeto—Monticeto Water Dist. plans election bonds to exceed $100,000, constructing Mono Dam.

Calif., Redlands—Plans election bonds to exceed $350,000, additional water facility improvements.

Ont., Oshawa—Plans electrically driven 2 stage pump at waterworks plant. $4,000. W. C. Smith, Municipal Bldg., engr.

Ont., Toronto—Plans 3,500 lin.ft. 20 in. c.i. mains between main on Boulevard Dr. and main on Pearson Ave. $55,467. R. C. Harris, City Hall, engr.

Sask., Eston—Canadian Natl. Ry., 230 St. James St., Montreal, Que., making surveys 13 mi. pipe line from Saskatchewin River to here. $250,000. C. S. Gzowski, Montreal, ch. constr. engr.

B. C., Chilliwack — Elk Creek Waterworks Co., Ltd., H. Ryall, pres., New Westminster, making plans storage dam and watermains in Dunville Creek, near here. $30,000. A. H. Turvey, engr.

Bids Desired

Mass., Holyoke — Mar. 19, by Water Comrs., 53,000 ft. 20 in. pipe for Ashley ponds line. P. J. Lucey, City Yard, engr.

N. Y., Long Island City—Mar. 12, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Denton Dr., 57th Rd., Anna and 113th Pls., Carhart, Herrick, Lotus and Wilton Aves., Locust, 32nd, 33rd, and 92nd Sts., here.

N. Y., New York — Mar. 12, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains, transferring taps, rearranging connections, and setting additional valves and hydrants in Battery Park, Riverside Dr., River Rd., 5th, 9th, Payson, St. Nicholas, 7th and 12th Aves., Church, Dyckman, East, Sickles, West, East 57th and West 193rd Sts.

N. Y., St. George — Mar. 12, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Bloomingdale Rd., Bronx and Johnson Pls., Burnside, Cedar, Geldner, Halpin, Hitchcock, Kissam, Lockman, Pelton, and Shady Side Aves., Atlantic, Brabant, and 3rd Sts., here.

Pa., Phila.—Mar. 16, by Dept. Pub. Wks., Bureau of Water, 16 and 24 in. pipe lines in Northeast Sect., Contr. 793; plumbing for Oak Lane Booster Sta., Contr. 808; hot water heating system, for Oak Lane Booster Sta., Contr. 809; also motor driven pumps for Shawmont and Roxborough Booster Pumping Stations, Contr. 810. G. H. Biles, dir.

Md., Baltimore—Mar. 17, by Bd. Awards, excavating trenches for Bureau Water Supply. V. B. Siems, City Hall, water engr.

D. C., Wash.—Mar. 26, at office Washington Suburban Sanitary Comn., Evans Bldg., New York Ave., 150,000 gal. elevated steel tank, Contr. 60-W. R. B. Morse, Hyattsville, Md., ch. engr.; adv. E. N.-R. Mar. 11.

Fla., Perry — Mar. 16, by City Council, 18,000 lin.ft. 4 in. and 6 in. mains and 20,000 ft. 8 in. sewers in various streets. $25,000. A. B. Gross, Perry, engr. Noted Nov. 26.

Fla., Tampa—Mar. 30, by City Comn., City Hall, 20 in. pipe line across Hillsborough River from a point in Lozana Ave. at Kay St. to Riverside Dr. at the intersection of Adams St. N. S. Hill, Jr., 112 East 19th St., New York City, N. Y., consult. engr.; adv. E. N.-R. Mar. 11.

Miss., Long Beach — Mar. 23, by J. J. Bailey, mayor, and Bd. Aldermen, waterworks improvements. Swanson-McGraw, Inc., 426 Balter Bldg., New Orleans, La., consult. engrs.; adv. E. N.-R. Mar. 11.

Tenn., Knoxville — Mar. 15, by City, 38,400 ft. 16- to 30-in. trunk water mains under Tennessee River. F. W. Albert, engr.

O., Akron — Mar. 23, by A. S. Helpbringer, purch. agt., 825 tons Class "B," 190 tons Class "C," 15 tons Class "D" 4- to 16-in. c.i. pipe, and 50 tons 6- to 16-in. standard special castings. M. P. Tucker, Municipal Bldg., engr.

O., Cincinnati—Mar. 18, by Director Pub. Serv., 10,800 ft. 6- to 36-in. c.i. mains, etc. in Central Parkway from 8th St. and Eggleston Ave. to Findaly St. $60,000. C. O. Sherrill, City Hall, engr.

O., Cleveland—Mar. 17, by Bd. Comrs. Cuyahoga Co., 3,300 ft. 6 and 8 in. c.i. mains in Impvt. Dist. 158, also 18,000 ft. 8 and 12 in. c.i. mains in Impvt. Dist. 452. $75,000. F. Williams, Courthouse, engr.

O., Cleveland—Mar. 19, by City, mains in Rosewood Ave. S. E., Greenway Rd. N. W., East Blvd. S. E., Harvard Blvd., S. E., Brighton Ave. S. W., Mortimer Ave. S. W., Wayland Ave. S. W., Ira Ave. S. W., Leella Ave. S. W., West 155th, 134th, 135th, 136th, 137th, 138th and 139th, also East 116th and 130th Sts. To exceed $15,000. R. Hoffman, City Hall, engr.

O., Dayton—Mar. 12, by Comrs. Montgomery Co., 5,455 ft. 4- to 8-in. c.i. mains, 5,400 ft. 6 ft. to 10 ft. trenching, etc., in Bway. Dist. $30,000. P. E. Borchers, U. B. Building, co. sanitary engr.

Mich., Detroit—Mar. 23, by Bd. Water Comrs., 6.683 mi. c.i. mains in various streets, Contr. 1926-4; 7.923 mi. Contr. 1926-5; and 7.727 mi. Contr. 1926-6. G. H. Fenkell, 176 East Jefferson Ave., genl. mgr. Noted Nov. 12 and Dec. 10, 1925, Jan. 28 and Feb. 4.

Mich., Warren — Mar. 15, by F. Licht, village clk., water distribution system, incl. 60,000 gal. elevated steel tank, 20,100 lin.ft. 4- to 8-in. c.i. pipe, etc. G. H. Ruhling & Co., 16549 Woodward Ave., Detroit, engr.

Ill., Chicago—Mar. 15, by City, Room 406, City Hall, 3 in. velocity water meters at Meter Shops, 3148 South Sacramento Ave. A. A. Sprague, comr. Pub. Wks.

Wis., Kenosha—Mar. 15, by C. M. Osborn, city mgr., 6,910 ft. galvanized iron pipe for Park Dept. Water Supply System.

Ia., Des Moines — See "Contracts Awarded."

Minn., Fairmont — Mar. 15, by H. J. Waite, secy. Water & Light Comn., 1 each 1,000, 1,500 and 2,500 g.p.m. motor driven centrifugal pumps. C. Foster, 512 Sellwood Bldg., Duluth, engr.

Minn., St. Paul—Mar. 15, by G. J. Ries, aud. Ramsey Co., constructing and equiping brick pump house.

Minn., Waite Park — Mar. 29, by L. A. Cleall, village recdr., waterworks and distribution system, incl. cistern, wells, pump house, pumping machinery, tank and tower. $20,000. S. S. Chute Court House, St. Cloud, engr.

Tex., Abilene — Mar. 19, by Bd. City Comrs., water purification plant. O. K. Hobbs, city engr.; adv. E. N.-R. Mar. 11.

Wash., Puyallup — Mar. 18, by A. R. Shevland, secy. North Hill Water Co., pumping plant, incl. water collecting system, pump house, and pumps, distribution system, 8 mi. mains, reservoir, 30,000 gal. wood stave tank on 20 ft. timber tower, etc. Miller Eng. Co., Burke Bldg., Seattle, engrs.

Bids Received

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Mar. 5, mains in De Kalb, Forbell, Foster, Georgia, Levonia Aves., and Avenues S and T, etc., here, from Dragonetti Contr. Co., 1123 Clinton Ave., New York City, $11,470. Noted Feb. 25.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Mar. 5, mains in 22nd and 45th Drs., 22 Rd. Hopkins, Washington and 60th Aves., etc., here, from S. Gallucci & Sons, Inc., 38 Railroad Ave., Corona, $4,389. Noted Feb. 25.

N. Y., New York — P. J. Dooling, comr. Purchase, Municipal Bldg., Mar. 5, c.i. pipe and special castings, from J. Fox & Co., 233 Bway., $105,420; and wet connection sleeves and valves, from A. P. Smith Mfg. Co., 111 Norman St., East Orange, N. J., $43,275, all above for Dept. Water Supply, Gas & Electricity. Noted Feb. 25.

N. Y., Potsdam — Municipal Bd., C. E. Haywood, chn., Feb. 25, four 2,000,000 g.p.d. rein.-con. mechanical filters, clear well, etc. for waterworks, from Shephard Constr. Service, Inc., 423½ South Salina St., Syracuse, $80,000. Noted Feb. 4.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, Mar. 3, small pipe lines, Contr. 796, from M. and J. B. McHugh, 892 North Markoe St., $95,685; electrical receiving equipment for Queen Lane Booster Station, Contr. 799, from Keystone State Piping & Equipment Co., 2849 Germantown Ave., $34,750.

Md., Baltimore—Bd. Awards Mar. 3, laying mains for Bureau Water Supply, from Ligon & Ligon, 2 East Lexington St., $59,856. Noted Feb. 25.

Colo., Ft. Collins — Improving waterworks **(a)** wood and concrete pipe **(b)** wood and steel pipe **(c)** concrete pipe **(d)** steel pipe **(e)** c.i. pipe **(1)** Sect. B flow line **(2)** Sect. C flow line **(3)** distribution main, Sect. D **(4)** distributing reservoir **(5)** labor for distribution system, from A. K. MacKay, Sterling **(a1)** $351,711; from Wheelwright Constr. Co., 2476 Washington Ave., Odgen, Utah **(b1)** $340,016 **(b2)** $68,118; from Lock Joint Pipe Co., 1716 California St., Denver **(c1)** $354,030 **(a2)** $72,019 **(c2)** $75,337 **(c3)** $79,228; from Johnson & McElrovy, Ft. Collins **(d2)** $98,920; from J. Collier, Denver **(e3)** $111,675; from Babb & Reid, Denver **(4)** $69,946; from Palmquist & Crum, Denver **(5)** $29,743. Noted Feb. 4.

Wash., Seattle—Bd. Pub. Wks., Feb. 19, from Interstate Constr. Co., 1713 22nd Ave. S., mains in Melrose Ave. N., et al., 2,355 ft. 20 in. c.i. pipe $6.40 per ft., 1,215 ft. 30 in. $11.58, 20 ft. x 16 in. $3, etc. total $44,051. Engrs. est. $46,142.

Contracts Awarded

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, City Hall, installing electrical equipment for Torresdale Pumping Sta., Contr. 797, to Acme Machine Co., 316 North 7th St., $112,096; switchboard, wiring, etc. for Torresdale Pumping Sta., Contr. 798, to H. Mayer Co., 103 Walnut St., $71,178; and 50,000 lb. pigiead, Contr. 794, to N. Tralter & Co., 36 North Front St., $4,710. Grand total $187,984. Noted Feb. 18.

Miss., Laurel—City, 7,500 ft. 8 in. and 17,000 ft. 6 in. c.i. pipe and fittings, to Amer. Cast Iron Pipe Co., Birmingham, Ala., $21,939; seven 8 in. and sixteen 6 in. valves, to Laurel Machine & Fdry. Co., Laurel, $4,430; 26 fire hydrants, and 2,000 lb. lead, etc., to Dixie Mill & Supply Co., 901 Tchoupitoulas St., New Orleans, La., $3,899. Grand total $30,328. Noted Feb. 4.

Miss., Moss Point—For 71,500 ft. 2- to 8-in. c.i. mains, to Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, Ala., $41,673; hydrants, valves and boxes, to Dixie Mill Supply Co., 901 Tchaupitaulas St., New Orleans, La., $5,589; pumping equipment, to Fairbanks-Morse & Co., 608-14 Magazine St., New Orleans, La., $20,750; deep well, to Gray Artesian Well Co., Pensacola, Fla., $5,200; tank on tower, to Chicago, Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill., $5,575; also concrete reservoir and laying mains, to C. J. Montgomery, Kaplin, La., $39,339. Grand total $118,126.

Ill., Chicago — City, 5,600 tons 30- to 48-in. c.i. pipe, to U. S. Pipe & Fdry. Co., 128 South Michigan Blvd., Chicago, $48.15.

Ill., Lockport — Well, pumping station, etc., to Nash-Dowdle Co., 77 West Washington St., Chicago, $41,823. Noted Jan. 21.

Ill., Mundelein — Bd. Local Impvts., to C. M. Barker, Maywood, 4,400 ft. 8 in. mains at $1.85 per ft., 15,300 ft. 6 in. mains $1.45, four 8 in. valves $47, twenty-six 6 in. valves $33, and 44 hydrants $90.

Ill., Phoenix—Waterworks improvements, incl. c.i. mains, etc., to E. K. Ladd, Peotone, $147,396. Noted Aug. 6.

Ia., Des Moines—City will extend various size mains in various parts of city, by day labor. $175,000.

Minn., Cloquet—J. A. Parks, city clk., 2 wells, to Layne-Bowler-Chicago Co., 37 West Van Buren St., Chicago, Ill., about $20,000. Noted Sept. 24.

Minn., Minneapolis — F. S. Gram, city purch. agt., five thousand ⅝ in. water meters, to Natl. Meter Co., 1455 West Congress St., Chicago, Ill., at $9.50 each. Noted Feb. 11.

Minn., St. Paul — A. E. Eggert, city purch. agt., seventy-five 5 in. single steamer valves, compressor type fire hydrants, to Michigan Valve & Fdry. Co., Amer. Trust Bldg., Detroit, Mich., at $77.70 each; two thousand six hundred and forty 12 ft. lengths 6 in. c.i. pipe, to Amer. Cast Iron Pipe Co., 712 Plymouth Bldg., Minneapolis, $0.695 per ft. for mold cast pipe; and one thousand ⅝ in. water meters, to Badger Meter Co., 30th and Meinecke Aves., Milwaukee, Wis., $7.45 each. Noted Feb. 4.

Kan., St. Francis — Waterworks extensions, incl. 100,000 gal. elliptical type tank, to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill., $8,080.

Okla., Frederick — City, 1 m.g. rein.-con. circular reservoir and storm sewers in various streets, to Gallamore Constr. Co., Cushing, $46,566. Noted Feb. 25.

Colo., Ft. Collins—City, filter plant, to Spotts & Malcolm, Loveland, $191,022. Noted Feb. 4.

Sewers

Proposed Work

Mass., Marblehead — F. R. Ireson, chn. Sewer Com., making preliminary plans main trunk line sewerage system from Flying Point to Little Harbor. $300,000 appropriated. F. A. Barbour, 1120 Tremont Bldg., Boston, engr.

Columbus Dispatch Building, Columbus, Ohio.
Snyder-Babitt & Mathews, Architects
R. H. Evans & Co. Contractors
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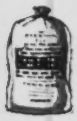

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BRIXMENT

Sewers (Continued)

Fla., Ft. Meade — Voted $65,000 bonds, sewers in various streets.

Fla., Pompano—Election Mar. 16, $100,000 bonds, sewers in various streets. L. E. Raines, city clk.

O., Akron — W. F. Peters, dir. Pub. Serv., takes bids in spring 15,000 ft. 8- to 48-in. vitr. clay trunk sewers in Riverside Dr., et al 2, $86,450; also 7,760 ft. 8- to 42-in. in Iuka Ave. et al, $43,750. J. E. Root, Municipal Bldg., engr.

O., Cleveland—Permanent Homes Land Co., c/o J. G. Engelman, 1227 Prospect Ave., takes bids in spring sewers and watermains in Lake Shore Blvd. $125,000. F. A. Pease Eng. Co., Marshall Bldg., engrs.

Wis., Janesville—H. Traxler, city mgr., making plans 18,000 ft. storm and 6,300 ft. sanitary sewers in various streets. C. V. Kerch, City Hall, engr.

Kan., Herington—Making plans sanitary sewers in various streets. To exceed $25,000. Black & Veatch, 701 Mutual Bldg., Kansas City, Mo., engrs.

Neb., Shelton — Election soon $56,000 bonds, sewers in various streets.

Mo., Chaffee—See "Waterworks."

Mo., Norborne—See "Waterworks."

Tex., Beaumont — Making preliminary plans sewer improvements, mains, and probably disposal plant. $200,000. R. C. Black, city engr.

Tex., Grapevine—Election Mar. 10, $30,000 bonds, sewers in various streets. S. C. Yansey, city secy.

Tex., Nacogdoches—Voted $35,000 bonds, sewerage system. J. Thackwell, Lufkin, engr.

Tex., Wellington—Making plans sewerage system, probably disposal plant. $40,000 bonds voted. Hasie & Morrison, Memphis, consult. engrs.

Calif., Burbank — See "Streets and Roads."

Calif., San Francisco—Made plans rein.-con. sewer in Sect. "C"-Contr. 2, 43rd Ave. To exceed $25,000. M. M. O'Shaughnessy, city engr.

Calif., Santa Cruz—Plans election $450,000 bonds, extending sewers in various streets. J. K. James, city engr.

Ont., Eastview—Town Council, R. Begin, clk., plans 9- to 24-in. vitr. clay sewers in 1st Ave., Marine Rd., Overton and Hanna Sts., etc. $25,000.

Ont., Toronto—East York Twp. making plans 630 ft. 12 in. vitr. tile sewer in Leroy Ave., $7,100; 1,260 ft. 12 and 15 in. in Greenwood Ave., $15,635; and 900 ft. in Main St., $8,983. G. R. Jack, 443 Sammon Ave., engr.

Bids Desired

N. Y., Rye — Apr. 7, by Bd. Village Trustees, Municipal Hall, constructing and extending existing separate sewerage system. J. A. Ehler, village engr.; adv. E. N.-R. Mar. 11.

Pa., Coatesville—Apr. 5, by City furnishing and laying 540 ft. 84 in. rein.-con. storm sewers. L. F. Hoffman, supt. Dept. Streets & Pub. Impvt.; adv. E. N.-R. Mar. 11.

Md., Baltimore — Mar. 17, by Bd. Awards, storm drains and sanitary sewers in Dists. H-9 and H-12, Contr. 93, 1,764 lin.ft. 27 in. and 30 in. rein.-con., drain, 1,107 lin.ft. 21 in. vitr. drain, 5,000 lin.ft. 6 in. underdrain, and 6,400 lin.ft. 8 in. vitr. sewer. M. J. Ruark, 311 Courtland St., sewerage engr.

N. C., Smithfield — See "Streets and Roads."

O., Akron—Mar. 18, by W. F. Peters, dir. Pub. Serv. 815 ft. 18 in. vitr. sewer in West Market St., $16,800; 1,140 ft. 8 in. in Spring and Stuber Sts., $4,400; 4,700 ft. 8- to 36-in. in Diagonal Rd. et al., $38,800; 3,750 ft. 8- to 30-in. in Lucille St. et al., $22,100; and 1,830 ft. 8- to 15-in. sanitary and storm sewer in Elinor and Norton Sts., $9,200. J. E. Root, Municipal Bldg., engr.

O., Cleveland—Mar. 17, by City, sewers in Carroll Ave., from West 25th to West 32nd Sts., Puritas Ave., culverts over Big Creek and Puritas Ave. and over branch Big Creek. To exceed $25,000. R. Hoffman, City Hall, engr.

O., Cleveland—Mar. 10, by City, sewers in Kingsbury Run, Woodbury Ave. S. W., Octavia Rd. N. E., Victoria Rd. N. E., East 53rd, West 11th, 130th, 150th and 151st Sts. To exceed $50,000. R. Hoffman, City Hall, engr.

O., Dayton—Mar. 12, by Comrs. Montgomery Co., Court House, 3,965 ft. 8 in. vitr. sanitary sewer, etc., in Bway. Sewer Dist., $8,000; and 3,100 ft. 36 in. monolithic concrete sewer, etc., in Westwood Main Outlet Sewer Dist., $50,000. P. E. Borchers, U. B. Bldg., co. sanitary engr.

Mich., Detroit — Mar. 15, by Dept. Pub. Wks., 2,253 ft. brick or concrete Seven Mile Rd. Arm, Ashland Ave. Sewer in Seven Mile Rd. from Gratiot Ave. to point 166 ft. west of Schoenherr Rd., and Winchester Ave. Arm, Gallagher Ave. Sewer in Winchester Ave. from Gallagher to Ryan Aves. and from Gallagher to alley west of Mitchell Ave.; also rein.-con. Twelfth St. outlet dock, 12th St. and Detroit River. P. A. Fellows, City Hall, engr.

Wis., Milwaukee — Mar. 13, by J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., extending main sewer in Roosevelt Dr., 11,550 ft. 42 in. concrete pipe, 1,085 vertical ft. standard and 535 vertical ft. drop manholes.

Ark., Paris—Mar. 23, by Commissioners Sewer Dist. 2, Logan Co., 51,893 ft. 8- to 21-in. vitr. clay pipe, 130 manholes, 25 flush manholes, 195 ft. 9- to 21-in. c.i. pipe, concrete disposal plant, etc. Ford & MacCrea, 215 Gazette Bldg., Little Rock, engrs.

Bids Received

Md., Baltimore — Bd. Awards, Mar. 3, storm drains and sanitary sewers in Sewer Dists. G-2, G-13 and P-9, Storm Water Contrs. 89, from Adams & Marino Co., Old Town Natl. Bank Bldg., for Mayor and City Council. $128,610. Noted Feb. 25.

Ky., Ft. Thomas—City, Sect. 2 of Ft. Thomas Sewerage system, incl. 3,500 ft. 6- to 13-in. vitr. clay pipe, etc., from Bishop Watts Constr. Co., Huntington, W. Va., $72,471. Engrs. est. $80,000.

O., Cleveland—Sewers in Bradgate and Grimsley Aves., from Yahya Bros., 3196 West 25th St., $4,713, and $5,584 respectively; in Brookfield and Delora Aves., from E. Cesa, 2462 Baldwin Rd., $2,078 and $6,194 respectively; in Caine Ave., from A. Marra Co., Ulmer Bldg., $9,765; in Elseinna Ave., from A. J. Galvin, Hunkin-Conkey Bldg., $4,415; in Greenway Ave., from Kassouff & Co., 3182 West 25th St., $8,326; and in East 39th St., from Ciraci Constr. Co., 3414 East 123rd St., $7,988. Noted Feb. 18.

O., Cleveland—From Janaslak & Callow Co., 13606 Union Ave., 865 ft. 18 in. vitr. tile sewer in Bader Ave. $4,021; from Yahya Bros., 3196 West 25th St., in Germaine Ave. $2,556, Leeita Ave. $4,674, West 152nd St. $7,746, Walbrook Ave. $2,925, work involves 5,226 ft. 8- to 20-in. vitr. tile pipe; from Langenham Constr. Co., Marshall Bldg., 380 ft. 3 C brick and 335 ft. 2 C brick or rein.-con. in West 114th St., brick $14,253, from Randall & Cooper, Lorain, West 114th St., concrete $13,313.

Contracts Awarded

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, to A. Mattia, 310 North 65th St., branch sewers in Atlantic St. $15,718, Erdick St. $24,467, and Pickwick St. $3,846, to J. Moss, 1652 Wakeling St., Cheltenham St. $4,773, to McIntyre Constr. Co., 6811 Franklin St., Cottman St. $12,014, and 58th St. $4,491 to A. Bonitatibus, 300 West Mt. Pleasant St., Edgewood St. $5,666, to A. Parna & Son, 752 South 10th St., 45th St. $3,170, and Theodore St. $5,830, to A. DiSandro & Son, 3906 North 5th St., Markland St. $8,999, to Pastore & Co., 5903 Woodland Ave., Millick St. $6,228, to F. T. Buckins, 4050 Kensington Ave., N St. $24,895, to A. Frunzi, 536 High St., Silverwood St. $14,064, to DeMayo Bros., 817 South Hutchinson St., Spangler St. $9,069, to P. Pinciatti, 4103 Roosevelt Blvd., Vankirk St. $22,083, to O'Neill Co., 127 East Mermaid St., main sewer in Sanger St. $27,814, to C. G. Centrone, Bailey Bldg., Armingo Ave., $39,989, to Acchione & Caruso, 804 South 12th St., sewers and pumping station south of Pattison Ave. and west of Broad St. $66,262, south of Packer and west of Broad Sts. $37,305, to Ridpath-Potter Co., 22nd and Bainbridge Sts., 900 ft. churn borings, $2,610. Grand total $305,778. Noted Mar. 4.

Md., Baltimore—Bd. Awards, 500,000 lb. manhole, sewer inlet and similar iron castings to Bureau Sewers, to Amer. Brake Shoe & Fdry. Co., Fulton Station, $13,430.

D. C., Wash.—Dist. Comrs., sewers in 16th St. Heights, to W. A. Pate, Jr., Rockville, Md., $6,168; in T St., to W. H. Angle, 1737 H St. N. W., $2,810; and in various streets, to G. B. Mullin Co., 1296 Upshur St. N. W., $11,050. Grand total $20,028.

Fla., Miami — City Council, sanitary sewers in SR 64 and 65, and storm sewers in SR 69, to J. B. McCrary Co., Citizens Savings Bank Bldg., Atlanta, Ga. Noted Feb. 11.

O., Cleveland—Bd. Comrs. Cuyahoga Co., 4,000 ft. 8- to 36-in. vitr. clay sewer in Snow Rd. Impvt. 53, to Gantose Constr. Co., 4816 Brookpark Rd., $49,739. Noted Mar. 4.

O., Cleveland—Bd. Comrs. Cuyahoga Co., sewer and water curb connections in South Canterbury Rd., to Hanna & Michael Constr. Co., Erie Bldg., $26,580.

O., Ravenna—Portage Co. sanitary sewer in Longmere allotment, to Lloyd Constr. Co., Xenia, $27,923. Engrs. est. $30,000.

Mich., Grand Rapids — Director Pub. Serv., City Hall, constructing Silver Creek Drain, Contr. K-4, to Fry & Kain, Bluffton, Ind., $214,916. Engrs. est. $257,339. Noted Jan. 28.

Ill., East St. Louis — To Keeley Bros. Constr. Co., 2100 State St., sewers in Market St., 700 ft. 10 in. $1.60 per ft., 720 ft. 12 in. $2, 1,140 ft. 15 in. $2.50, 4,440 ft. 18 in. $3.15, 1,300 ft. 21 in. $4.15, 32 combined manholes and catch basins $75 each, 450 sq.ft. concrete sidewalks replaced $0.30 per sq.ft., 45 sq.yd. brick on concrete paving $6, 20 sq.yd. 8 in. concrete paving $6, etc. Engrs. est. $30,900.

Wis., Milwaukee — J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., rein.-con. sewer in Muskego Ave. between Canal and Park St., to Wenzel & Henoch Co., 498 27th St., $27,953.

Mo., St. Louis—For 2,830 ft. 8- to 51-in. vitr. clay, brick and segmental block sewers in North Baden Joint Sewer Dist. 1, to Riley Contg. Co., 110 North 7th St., $29,510. Engrs. est. $30,000. Noted July 23.

Mo., University (Ind. br. St. Louis) — Approximately 9,000 ft. 33 and 36 in. sewers in Sect. B River Des Peres Public Sanitary Sewer, to T. Prendergast Constr. Co., Merchants Laclede Bldg., St. Louis, $60,379. Engrs. est. $75,000. Noted Feb. 18.

Okla., Frederick—See "Waterworks."

Calif., Glendale—City Council improving Sewer Dist. 2, 67,121 ft. 8 and 10 in. vitr. and 126 ft. 8 and 10 in. encased vitr. pipe, etc., to A. Giebisch, Virgil Walk, Long Beach, $165,601. Noted Mar. 4.

Calif., Oakland—For 5,086 lin.ft. 10- to 24-in. vitr. sewer in Webster St. between 12th and 20th Sts., to W. J. Tobin, 527 Santa Ray Ave. Noted Mar. 4.

Calif., Richmond—A. C. Faris, city clk., to L. L. Page, 8th and Bissell Aves., sewers in Dist. 1 $15,666, Dist. 2 $19,388, and Dist. 3 $554. Noted Mar. 4.

Waste Disposal

Proposed Work

Fla., Ft. Myers—Election Mar. 23, $45,000 bonds, incinerator.

Bids Desired

O., Cleveland—Mar. 12, by City, A. K. Hoare, purch. agt., percolator for disposal plant, at Willow.

Bids Received

N. J., Deal—Boro Comrs., Mar. 3, constructing incinerator, from Ellison Co., Inc., 211 West 126th St., New York City, $14,907. Noted Nov. 12.

Md., Baltimore — Bd. Awards, altering and constructing 2 story, 30 x 50 ft., concrete and brick incinerator plant addition, plain foundation, Sisson and 28th Sts., from DeCou & Davis, 9 West Chase St., for Mayor and City Council. $101,990.

Calif., Long Beach—C. D. Windham, city mgr., incinerator, Spec. C-339, 75 tons for 8 hrs. capable of reducing same to odorless ash, material to be approximately 70% market refuse and 30% garbage, from Sherer & Son, 1865 East Anaheim St., $75,000; Spec. C-338, 1,500 cu.yd. capacity (150 tons) per 24 hr., and C-337, refuse incinerator plant (complete), from Nye Odorless Creamatory Co., Macon, Ga., $45,000 and $55,750 respectively. Noted Mar. 4.

Bridges

Proposed Work

La., New Orleans—Pub. Belt R.R. Comn., Municipal Bldg., making preliminary plans for Mississippi River Bridge 2 mi. above city limits. R. Modjeska, 121 East 38th St., New York City, engr. Noted Feb. 4.

O., Cincinnati — Hamilton Co. plans 2 span 78 ft. concrete girder bridge, Red Bank Rd. $25,000. E. A. Gast, Court House, engr.

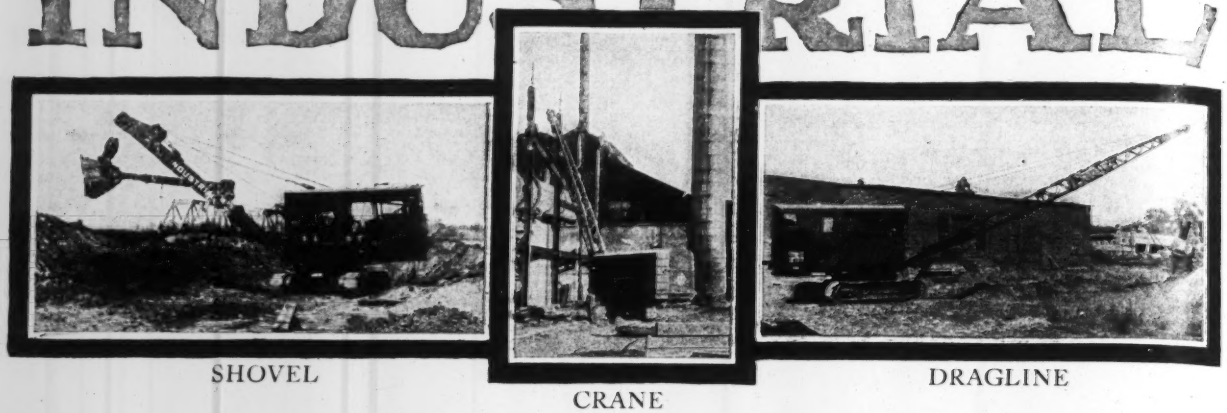
Tenn., Savannah—State Dept. Highways & Pub. Wks., Nashville, making surveys bridge over Tennessee River, Wayne Co., near here. $500,000. C. N. Bass, comr.

Ill., Joliet—City and Will Co. soon take bids rein.-con. viaduct, on 4th Ave. $33,500. W. H. Smith, Court House, co. highway supt.

Wis., Madison — W. Winckler, city clk., plans bridge over Chicago & Northern R.R. tracks, on Pond St. $25,000. Engineer not selected.

Wis., Muscoda—Grant Co. (Lancaster), plans 1,000 ft. single leaf bascule type bridge with bascule approach span, etc., over Wisconsin River, here. $180,000. C. H. Kirch, State Capitol, Madison, engr. Noted Mar. 19, 1925.

INDUSTRIAL



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THIS INDUSTRIAL crawling tractor crane, shovel and dragline is producing 50-man-power results in handling the heavy loads of industry. It is cutting deep into the high costs of manual material-handling and recovering a buried treasure of non-productive dollars. The type DC is a masterpiece of design and construction. Its outstanding superiority is guaranteed by America's pioneer crane builders. Over fifty years of untarnished business integrity and highly specialized skill and experience form its background.

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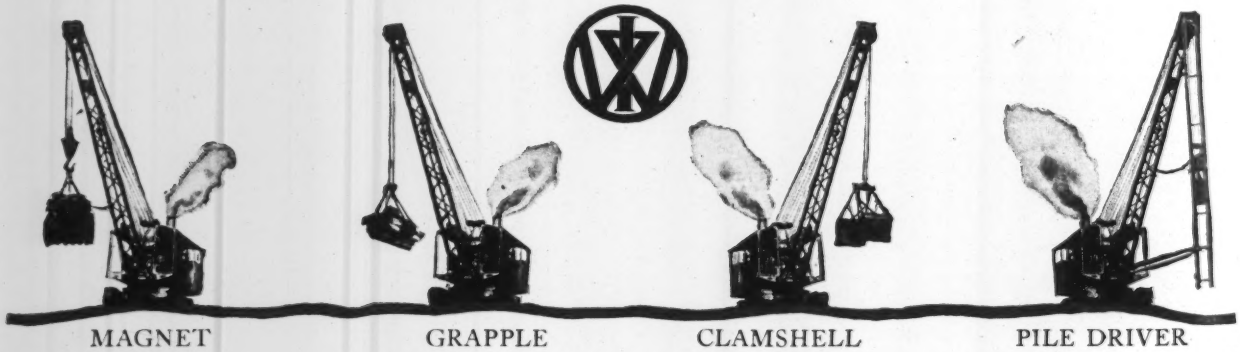
Bay City, Michigan



MAGNET GRAPPLE CLAMSHELL PILE DRIVER

Bridges (Continued)

Tex., Abilene—See "Streets and Roads."

Tex., Benjamin—Knox Co. election Mar. 27, $70,000 bonds concrete and steel bridge across Brazos River. N. S. Kilgore, judge.

Tex., Giddings—See "Streets and Roads."

Oklahoma — State Hy. Dept., Oklahoma City, making preliminary plans 1 span 86 ft. steel truss bridge on concrete piers at Lima, Seminole Co., $32,000; and 1 span 128 ft. steel truss bridge on concrete piers at Lovell, Logan Co., $42,000. J. M. Page, highway engr.

Okla., Chandler — Voted $25,000 bonds viaduct. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., consult. engrs. Noted Nov. 5.

Okla., Wetumka — Making preliminary plans 1 mi. outfall sewers and disposal plant. $30,000. R. Grace, Holdenville, engr.

California—See "Streets and Roads."

Bids Desired

N. J., Camden — Mar. 29, by State Hy. Comn., Trenton, double leaf deck girder simple trunnion bascule bridge over Cooper River, on Entrance Rd. to Delaware River Bridge, here. A. L. Grover, secy.; adv. E. N.-R. Mar. 11.

Louisiana—Mar. 23, by State Hy. Dept., Baton Rouge, Sabine River Bridge, incl. 75 ft. pony truss span and part 300 ft. steel swing span, etc., on Federal Aid Project 336, Sect. B, W. B. Robert, Reymond Bldg., Baton Rouge, highway engr. See bridges under Texas.

Kentucky—Apr. 12, by State Hy. Dept., Frankfort, 100 ft. steel span superstructure with 20 ft. roadway over Bayou de Chien, on Clinton-Fulton Rd., Federal Aid Project 131-D, Hickman Co.; and three 40 ft. span T-beam concrete bridges over Louisville & Nashville R.R. tracks, at Barnsley, Federal Aid Project 122-C, Hopkins Co. E. N. Todd, highway engr.

Ohio—Mar. 19, by Dept. Hys. and Pub. Wks., Columbus, concrete bridge on Sect. "I" Athens-McArthur Rd., 16 ft., Athens Co., $5,641; rein.-con. bridge over Mill Creek, on Sect. "U" Ohio River Rd., $22,796, rein.-con. bridge Sect. "H" same road $3,941, also bridges and culverts Sect. "H" same road $5,282, all foregoing in Washington Co. G. F. Schlesinger, highway comr.

Minnesota—See "Streets and Roads."

Kan., Hoxie—See "Streets and Roads."

Kan., Russell Springs—See "Streets and Roads.

Kan., Winfield—See "Streets and Roads."

Missouri—Mar. 19, by State Hy. Dept., Jefferson City, three 80 ft. steel truss spans, etc., over north fork Spring Creek, Barton Co.; two 10 ft. and two 12 ft. rein.-con. slab spans, etc., over stream, one 20 ft. rein.-con. slab span, etc., over south fork Deer Creek, one 30 ft. rein.-con. slab span, etc., over north fork Deer Creek, one 40 ft. rein.-con. deck girder span, etc., over Mackofish Branch, and one 60 ft. steel truss span, etc., over Mormon Fork, all in Bates Co.; one 20 ft. rein.-con. slab span, etc., over Smith Branch, one 24 ft., and two 12 ft. rein.-con. slab spans, etc., over McKinney Branch, also one 45 ft. rein.-con. deck girder span, etc., over Richland Creek, all in Callaway Co.; three 24 ft. rein.-con. slab spans, etc., over Green Valley, also one 160 ft. and two 80 ft. steel truss spans, etc., over James River, both in Christian Co.; two 80 ft. steel truss spans and two 30 ft. rein.-con. deck girder spans, etc., over Petite Saline Creek, both in Cooper Co.; two 45 ft. rein.-con. deck girder spans, etc., over Wild Cat Creek, Douglas Co.; three 100 ft. arch span open spandrel bridge over Soc River, Greene Co.; two 10 ft. rein.-con. slab spans, etc., over Kaolin Branch, Iron Co.; one 80 ft. steel truss span, etc., over Black Water River, and one 80 ft. steel truss and four 35 ft. I-beam spans, etc., over Black Water D. D., all in Johnson Co.; two 20 ft. rein.-con. slab and one 40 ft. rein.-con. deck girder spans, etc., over stream, Lewis Co.; two 12 ft. rein.-con. slab and two 30 ft. rein.-con. deck girder spans, etc., over stream, and one 30 ft. rein.-con. deck girder span, etc., over Wollard Branch, all in Polk Co.; also three 30 ft. rein.-con. deck girder spans, etc., over Beeler Creek, Texas Co. B. H. Piepmeier, ch. engr. Noted Dec. 31.

Mo., St. Louis—Apr. 6, by Bd. Pub. Serv., 208 City Hall, constructing nine 42 ft. rein.-con. span viaduct, 70 ft. to carry Kingshighway Blvd. over Terminal Railroad Belt line in Penrose Park. $196,400. L. R. Bowen, 301 City Hall, engr. Noted Dec. 31.

Texas — Mar. 23, by State Hy. Dept., Austin, Sabine River Bridge, incl. 75 ft. pony truss span and part 300 ft. steel swing span, etc. Federal Aid Project 336 Sect. A, near Orange. H. Moseley, highway engr. See bridges under Louisiana.

Tex., Abilene—See "Streets and Roads."

Tex., Dallas—See "Streets and Roads."

Tex., Huntsville — See "Streets and Roads."

Texas—See "Streets and Roads."

Tex., San Antonio—Mar. 29, by A. McCloskey, judge Bexar Co., and A. C. Pancoast, engr., 102 Turner St., rein.-con. and steel bridges in Precincts 1, 2, 3 and 4. $200,000.

Tex., Sweetwater — See "Streets and Roads."

Tex., Weatherford — See "Streets and Roads."

Oklahoma—Mar. 16, by State Hy. Dept., Oklahoma City, 2 span 130 ft. steel truss bridge on concrete piers at Ninnekah, Grady Co., 119.7 tons steel truss, 38.8 tons reinforcing, 3,200 ft. wooden piling, etc., $25,000; and 2 span 80 ft. rein.-con. trestle bridge on concrete piers at Vici, Dewey Co., 17.78 tons I-beam steel, 8.86 tons reinforcing, 7,900 ft. wooden piling, etc., $25,000. J. M. Page, highway engr.

Okla., Walters—Mar. 16, by State Hy. Dept., Oklahoma City, 4 span 126 ft., rein.-con. trestle, 28.75 tons I-beam steel, 21.88 tons reinforcing, 3,800 ft. wooden piling, etc., Cotton Co., here. $31,000. J. M. Page, highway engr.

Oklahoma—See "Streets and Roads."

California—Mar. 22, by State Hy. Comn., Forum Bldg., Sacramento, widening present bridge by moving four 100 ft. existing steel spans off center line of roadway and constructing 4 similar spans at side, etc. across Rio Honda near city of Los Angeles, Los Angeles Co. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Ontario—See "Streets and Roads."

Bids Received

Wis., Racine—H. A. Nelson, comr. Pub. Wks., Feb. 20, 270 ft. steel girder bridge and concrete approaches, etc., at 6th St., from E. E. Gillen Co., 288 East Water St., Milwaukee, $55,875. Noted Feb. 11.

Contracts Awarded

Pennsylvania—State Hy. Dept., Harrisburg, one 78 ft. through plate girder, one 44 ft. and seven 37.5 ft. rein.-con. span bridge on Route 102, Strippen Twp., Tioga Co., to A. W. Hinaman, Williamsport, $94,980. Noted Jan. 14 under "Streets and Roads."

Pennsylvania—State Hy. Dept., Harrisburg, 435 ft. rein.-con. and steel viaduct over Sandy Creek, on Route 233, Victory Twp., Venango Co., to J. A. Crawford, Blossburg, $88,397. Noted Mar. 4.

Pa., Phila.—Delaware River Bridge Joint Comn., Widener Bldg., G. Pinchot, chn., miscellaneous metal work for bridge over Delaware River connecting cities of Phila. and Camden, N. J., Contr. 24, to Ford & Kendig Co., 1428 Callowhill St., $622,000; electrical equipment, Contr. 25, to W. Pangborne & Co., 1927 West Montgomery St., $209,626; wrapping cables, Contr. 26, to Keystone State Corp., Franklin Bldg., $139,000; and excavation of excess material, to Richard Kelley Co., Phila., $15,300. Grand total $986,926. Noted Feb. 18.

Ohio — Dept. Highway & Pub. Wks., Columbus, steel bridge and concrete abutments on Sect. "B" Carrolton-New Philadelphia Rd., Carroll Co., to Urban Bros., Massillon, $12,474; 64 ft. span bridge plate girder encased in concrete Sect. "F" National Rd., Clark Co., to Standard Eng. Co., Toledo, $21,181; 100 ft. span bridge plate girder encased in concrete over Buck Creek, Sect. "N" also improving and widening bridge Sect. "H" same road, to Reedy Bros., Warren, $42,900 and $3,706 respectively; 86 ft. span concrete arch bridge Sect. "C" Kenton-Wapakoneta Rd., Hardin Co., to Anstine & Carey, Kenton, $16,858; removing present steel bridge and constructing concrete culvert Sect. "K" Muskingum Rd., Washington Co., to H. Parrin, Beverly, $11,232. Grand total $108,351. Noted Mar. 4.

Ill., Chicago—City, substructure for 210 ft. span double leaf trunnion bascule bridge, 80 ft. over Chicago River, at North La Salle St., to Central Dredging Co., 53 West Jackson Blvd., $649,583. Noted Dec. 18, 1924.

Ark., Siloam Springs—See "Streets and Roads."

Tex., Austin—See "Streets and Roads."

Railways

Proposed Work

Massachusetts—Boston & Maine R.R., F. C. Shepherd, asst. ch. engr., North Sta., Boston, plans 2½ mi. classification yard and freight terminal, in Lowell Junction. $2,500,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

N. Y., Buffalo — Bureau Waterways & Canals, Dept. Pub. Wks., Capitol, Albany, plans rock and earth dredging and cleaning entire Erie Basin Barge Canal Terminal, foot of Genesee St., here. $350,000. T. F. Farrell, comr.

Bids Desired

New York—Mar. 18, by T. F. Farrell, comr. Canals & Waterways, 55 Lancaster St., Albany, repairing Glens Falls feeder, Contr. M-13, $30,556; excavating canal channel, etc., at various locations in Hudson River from Waterford to Whitehall, Contr. M-14 $141,000, canal channel from Lock 21 to deep water in Oneida Lake, Contr. M-17 $104,800, and canal channel and adjacent thereto between Pendleton and Martinsville, Niagara and Erie Counties, Contr. M-18 $49,600; adv. E. N.-R. Mar. 11.

New York — Apr. 8, by T. F. Farrell, comr. Canals & Waterways, Dept. Pub. Wks., 55 Lancaster St., Albany, excavating Erie Canal channel in Mohawk River from Vischar Ferry to Lock 14, Contr. 234; and same channel from Indian Castle Creek to Herkimer-Oneida Co. line, Contr. 331; adv. E. N.-R. Mar. 11.

Md., Baltimore—See "Waterworks."

La., Shreveport—Mar. 26, by Bd. Comrs. Caddo Levee Dist., 551,000 cu.yd. excav. and clearing 17½ mi., etc., Kelly Bayou from Arkansas line to Black Bayou; also 3,300 ft. bank protection, White Hall Bend, in Red River 34 mi. below here. Bd. State Engineers, 213 New Courthouse Bldg., New Orleans, engrs. This corrects report in Mar. 4 issue.

Wis., Milwaukee—Mar. 17, by J. Spartz, Sr., secy. Milwaukee Co. Farm Drainage Bd., 1422 1st Natl. Bank Bldg., 32,000 cu.yd. Farm Drain 8, and 28,500 cu.yd. Farm Drain 15. To exceed $25,000. H. C. Webster, 217 West Water St., engr.

Nebraska—Mar. 20, by Peterson & De Voe, attys., Bankers Life Bldg., Lincoln, clearing, grubbing, grading, etc., 78,500 cu. yd. between Waverly and Havelock, for Lincoln Sanitary Dist., Lancaster Co. (Lincoln). $25,000. Scott & Scott, Bankers Life Bldg., Lincoln, engrs.

Neb., Schuyler—Mar. 18, by H. Kasal, et al, Court House, constructing Kasal D. D., Colfax Co., approximately 118,333 cu.yd. excav. J. E. Severyn, co. clk.

Tex., Orange—Mar. 15, by J. E. Johnson, engr., Orange, dredging channel for ferry crossing of Neches River and Ship Channel on Orange and Port Arthur Rd., incl. 20,000 yd. excav., here, for Orange Co. (Orange) and Jefferson Co. (Beaumont). $25,000.

Calif., Richvale — Trustees D. D. 100 Butte Co. taking bids repairing and enlarging 3 mi. ditches from 3-4 ft. bottom and deepening 1 ft., 3½ mi. cleaning. F. S. Robinson, Chico, engr.

British Columbia—Mar. 19, by Secretary Dept. Pub. Wks., Ottawa, Ont., dredging at False Creek, here. $40,000. A. S. Cameron, Ottawa, Ont., engr.

Bids Received

New York—Salt Water Bays Comn., R. G. Finch, chn., Journal Bldg., Plaza, Albany, Mar. 3, timber bulkheads along north bank Quoque Canal and at Quoque Bridge, and for placing riprap stone at tide gates on Shinnecock Canal, Suffolk Co., from Gaston Bishop, South Rd., West Hampton. Noted Feb. 18.

Contracts Awarded

N. J., Newark—T. L. Raymond, dir. Pub. Affairs, City Hall, approximately 150,000 cu.yd. dry fill behind new docks at Port Newark, and constructing 2 docks on Passaic River, to Linde & Griffith, 4th Ave., $117,000 and $33,457 respectively; 5,000 lin. ft. wash borings at Port Newark Terminal, to Phillips & Worthington, 90 West St., New York City, $5,340. Noted Jan. 14.

Calif., San Francisco—State Bd. Harbor Comrs., Ferry Bldg., 50,000 cu.yd. fill at outer end of Pier 48, to Healy-Tibbitts Constr. Co., 64 Pine St., $0.67 per cu.yd. Noted Feb. 11.

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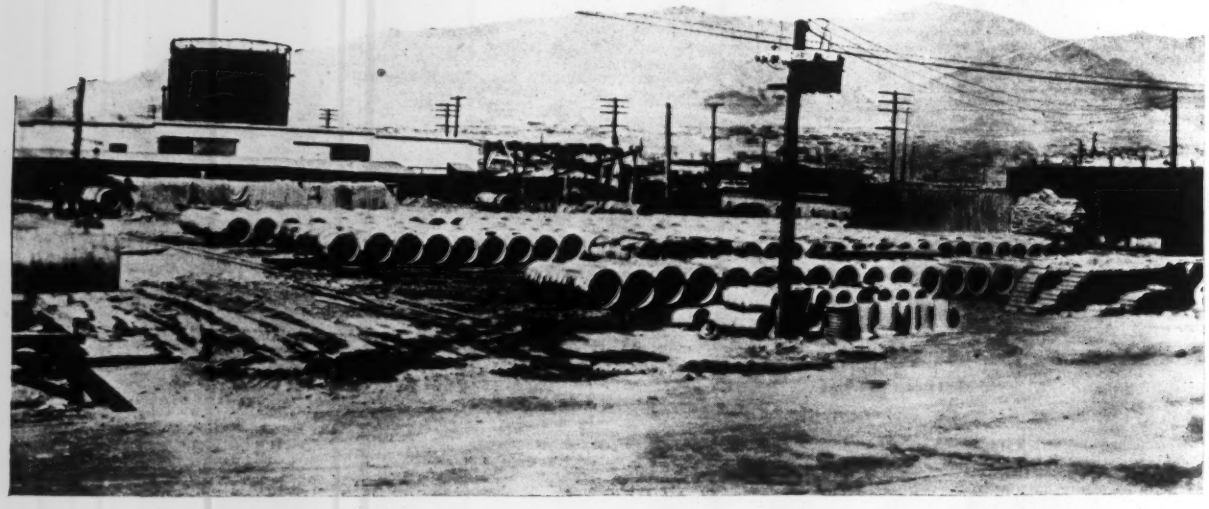

Streets and Roads

Proposed Work

Mass., Amesbury—Plans concrete paving 1½ mi. Main St. $75,000.

Mass., Amherst—Plans cement sidewalks on Boltwood Ave., Pleasant, Amity and Dickinson Sts.; also bituminous macadam paving ½ mi. Boltwood and College Aves., Spring and South Pleasant Sts. $25,000.

Mass., Barnstable — Plans improving roads. $100,000.

New Jersey—Cape May Co. (Cape May) plans improving 2 mi. road from Ocean City to Somers Point. $50,000. R. F. Smith, Marmora, engr.

Pennsylvania — State Hy. Dept., Harrisburg, plans concrete paving 8,000 ft. Portland-Mount Bethel Rd., Northampton Co. W. Handwork, Harrisburg, engr.

Pa., Chester—Parkstone Realty Co., c/o A. Leiberman, 1211 South 15th St., Phila., making plans grading, paving, etc. in residential district, here. Albright & Mebus, 1502 Locust St., Phila., engrs.

North Carolina—State Hy. Comn., Raleigh, making plans clearing, grading, etc., 10.8 mi. Project 869, Polk Co., $60,000; oil surfacing 11.6 mi. Project 587, Randolph Co., $29,000, and 16.72 mi. Project 586, Randolph Co., $41,800. C. M. Upham, Raleigh, engr.

N. C., Asheville—Plans to issue $150,000 bonds, improving various streets. J. H. Cathey, mayor.

N. C., Durham—City Council takes bids about Apr. 1, hard paving various streets. $1,000,000. R. W. Rigsby, city mgr.

N. C., Bladenboro—Plans paving Main St. $30,000.

N. C., Lillington — Harnett Co. Road Comn., plans constructing 15 mi. road from Lillington to Cumberland Co. line. $75,000.

Ga., Dawson—Terrill Co. voted $300,000 bonds, constructing roads.

Ga., Tifton—Voted $70,000 bonds, paving various streets. Noted Jan. 21.

Ga., Perry—Houston Co. election Mar. 10, $200,000 bonds for roads.

Fla., De Funiak Springs — Walton Co. election Mar. 30, $1,000,000 bonds, for roads.

Fla., Perry — Election Mar. 16, $75,000 bonds, improving various streets.

Fla., Starke—Bradford Co. election Mar. 19, $450,000 bonds, improving 130 mi. roads.

Fla., Pompano—Election Mar. 16, $550,000 bonds, constructing streets and sidewalks. L. E. Raines, city clk.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 8 mi. Martin-Sharon Rd., State Road 5, Weakley Co. C. N. Bass, comr.

Tenn., Clarksville—Plans paving various streets. $75,000.

Tenn., South Pittsburg—Defeated $70,000 bonds, paving and sewers in various streets. Noted Jan. 28.

O., Cleveland—Permanent Homes Land Co., c/o J. G. Engelman, 1227 Prospect Ave., takes bids in spring grading, sidewalks and paving Lake Shore Blvd. $75,000. F. A. Pease Eng. Co., Marshall Bldg., engrs.

O., Crooksville—Perry Co. making plans curbing, grading and asphalt or brick paving Main St. from Zanesville and Western R.R. tracks to bridge, 32 ft. $28,000. J. Meenan, Crooksville, engr.

O., Dayton — Plans asphalt on old concrete paving Ludlow St. from 3rd to Washington Sts.; rein.-con., vibrolithic concrete or asphalt on concrete paving Overlook St. from Huffman to Springfield Sts.; rein.-con. paving Lind Vista St. from Fountain to Marathon Sts., $110,000. J. F. Hale, Dayton, city engr.

O., Medina—Comrs. Medina Co. plan improving I. C. H. 553 Cleveland-Rittman Rd. from Akron-Wooster Rd. to Cleveland. $250,000.

Ill., Alton—Takes bids in March or April grading, curbing and paving Belle St. $40,795; also Adams Court Sewer 1, 1,835 ft. 10 in. and 800 ft. 6 in. vitr. clay pipe, $4,919, and Adams Court Sewer 2, 393 ft. 10 in. and 160 ft. 6 in. vitr. clay pipe, $846. J. E. Schwaab, City Hall, engr. Noted Feb. 25.

Ill., Bridgeport — Making preliminary plans grading and rein.-con. paving, etc., various streets. $25,000. R. J. Benefiel, Court House, Lawrenceville, engr.

Ill., Carlinville—Macoupin Co. plans 20 to 30 car loads road oil on various roads. $20,000. D. T. Alford, supt. highways.

Ill., East St. Louis—Making preliminary plans grading, curbing and 8 in. concrete paving, etc. 19,060 sq.yd. Winstanley and 11th Sts. $89,400. W. McK. Brown, City Hall, engr.

Ill., Lawrenceville — E. Ashbaugh, city clk., takes bids probably in April, grading and rein.-con. paving 16,000 sq.yd. 15th St. R. J. Benefiel, Court House, engr.

Ill., Mt. Sterling—Plans 5 or 6 car loads road oil on various streets. W. O. Grove, Mt. Sterling, supt. highways.

Ill., Urbana—Champaign Co. plans grading and paving 4 to 6 mi. various roads, 18 ft. $150,000. R. F. Fisher, Court House, engr.

Wisconsin — State Hy. Dept., Madison, plans gravel surfacing, etc., 6 mi. Clam Lake-Glidden Rd., S. T. H. 77, and 0.25 mi. Deer Creek Fill Rd., S. T. H. 110, both in Ashland Co., $31,015 funds available; 1.91 mi. Bloomer-Colfax Rd., S. T. H. 40, Chippewa Co., $8,000; 9.61 mi. Greenwood-Withee Rd., S. T. H. 72, Clark Co., $25,000; 1.5 mi. Merrimac Ferry-Okee Rd., S. T. H. 113, $3,000, 2 mi. Lodi-Arlington Rd., S. T. H. 60, $10,000, 4 mi. Columbus-Wautoma Rd., S. T. H. 73, $20,000, 1.25 mi. Columbus-Cambria Rd., S. T. H. 141, $4,000, 4 mi. Arlington-Columbus Rd., S. T. H. 60, $15,000, and 22 mi. S. T. H. 29 and 10, $22,912, all foregoing in Columbia Co.; Horicon-West Bend Rd., S. T. H. 68, $20,000; 2 mi. Columbus-Randolph Rd., S. T. H. 73, $8,451, and 4 mi. Columbus-Hustisford Rd., S. T. H. 60, $40,000, both Dodge Co.; 2.27 mi. Eau Claire-Eleva Rd., S. T. H. 93, $14,963, 0.32 mi. Eau Claire-Fall Creek Rd., S. T. H. 12, $20,000, 1.21 mi. Augusta-Fairchild Rd., S. T. H. 12, $18,000, and 0.58 mi. same road, $8,000, all foregoing in Eau Claire Co.; 2.5 mi. S. T. H. 14 and 32, Forest Co., $8,000; 7.65 mi. New Lisbon-West Co. Line Rd., S. T. H. 12 and 29, Juneau Co., $65,000; Luxenburg-Rio Creek Rd., S. T. H. 54, Kewaunee Co., $29,126; 4 to 5 mi. Merrill-West Co. line Rd., S. T. H. 64, Lincoln Co., $41,989; 6.3 mi. Hustler-Sparta Rd., S. T. H. 12 and 29, Monroe Co., $105,000; Breed-Gillett Rd., S. T. H. 32, Oconto Co., $9,644; Stiles Junction-Lena Rd., S. T. H. 57, Oconto Co., $10,000; approximately 1 mi. Tomahawk Lake-North Rd., S. T. H. 47, $14,172; 4.87 mi. Maiden Rock-Stockholm Rd., S. T. H. 35, Pepin Co., $25,995; 1.91 mi. same road, $30,000; 2.8 mi. Martell-Spring Valley Rd., S. T. H. 116, $12,000, 2.2 mi. Ellsworth-Plum City Rd., S. T. H. 18, $9,000, and 1 mi. Elmwood-Downsville Rd., S. T. H. 51, $8,000, all foregoing in Pierce Co.; 1 mi. St. Croix Falls-Centuria Rd., S. T. H. 35, $8,000, and 4 mi. Luck-Loraine Rd., $14,547, both in Polk Co.; 3 mi. S. T. H. 13, Price Co., $21,989; 1.55 mi. Somerset-New Richmond Rd., S. T. H. 64, $6,000, and 2.57 mi. Osceola-Somerset Rd., $9,500, both in St. Croix Co.; 4 mi. Delton-Reedsburg Rd., S. T. H. 23, Sauk Co., $34,932; Plymouth-Kiel Rd., S. T. H. 57, Sheboygan Co., $91,135; 1.05 mi. Thorp-Gilman Rd., S. T. H. 73, $20,000, 1.05 mi. Jump River-Ingram Rd., S. T. H. 73, $6,000, and 0.93 mi. Gilman-Medford Rd., S. T. H. 64, $10,000, all foregoing in Taylor Co.; also 3 mi. Eagle River-Conover Rd., S. T. H. 26, Vilas Co., $21,472. J. T. Donaghey, highway engr.

Wis., La Crosse—W. J. Fries, secy. Bd. Pub. Wks., rejected bids Feb. 10, improving various streets, 16,639 sq.yd. various types paving, 10,794 ft. concrete curbing and guttering, 1,997 sq.yd. pavement in car tracks, etc. C. C. Congdon, City Hall, engr. Will readvertise. Noted Mar. 4.

Wis., Madison—Election Apr. 6, $609,000 bonds, extending University Ave., to Capitol Square. E. E. Parker, City Hall, engr.

Ia., Cedar Rapids — Takes bids about Apr. 1, grading, curbing and tarvia macadam on asphaltic concrete repaving 24,300 sq.yd. Park Courts, Ridgewood Terrace, 3rd, 17th, 18th, 19th and Blake Aves.; 1,440 sq.yd. Hilcrest Dr.; and 4,426 sq.yd. 5th and 21st Aves. J. L. Storey, city clk. Noted Dec. 31.

Ia., Tipton — Cedar Co. takes bids in March or April, improving Primary Road 74 from Tipton to Scott Co. line, 165,766 cu. yd. excav., 10,110 ft. diam. tile, 18,945 ft. guard rail, etc. R. P. Zimmerling, Tipton, engr.

Minn., Caledonia — Making plans paving approximately 12 blocks various streets. $50,000. W. S. Woods, Batavian Bank Bldg., La Crosse, Wis., engr.

Minn., St. Paul—Plans paving St. Clair St. between Osceola and Snelling Ave., $139,000; and Fairchild Ave. between Wabasha and South Robert Sts., $29,486. G. M. Shepard, city engr.

Kan., Kingman—Making plans paving 24 blocks various streets. C. A. Haskins, 822 Finance Bldg., Kansas City, Mo., engrs.

Mo., Bucklin—Making plans improving various streets. To exceed $25,000. W. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, engrs. To exceed $25,000.

Mo., California — Plans paving various streets. To exceed $25,000.

Mo., Chaffee—Takes bids in May, grading, curbing and concrete paving various streets. To exceed $25,000. F. R. Nohl, resident engr. C. E. Smith & Co., Ry. Exch. Bldg., St. Louis, consult. engrs. Noted Oct. 29.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids shallow granite block paving 1,340 sq.yd. Arlington St., $13,700; concrete paving 720 sq.yd. Wilcox St., $5,800, and 1,825 sq.yd. Harney St., $12,450; brick paving 1,155 sq.yd. Newstead St., $7,650; rein.-con. paving 760 sq.yd. Bay St., $3,880, and 2,650 sq.yd. Kansas St., $16,600; asphaltic concrete paving 775 sq. yd. Hoffman St., $4,990, 1,255 sq.yd. Frieda St., $8,470, 1,865 sq.yd. Nicholson St., $11,800, 1,940 sq.yd. 37th St., $11,600, 1,685 sq. yd. Art Hill Pl., $9,600, and 1,155 sq.yd. Winnebago St., $8,850. W. W. Horner, 300 City Hall, engr.

Mo., Trenton—Making preliminary plans grading, curbing, hardsurfacing, etc., 9 blocks various streets.

Arkansas—State Hy. Dept., Little Rock, takes bids about Apr. 1, gravel surfacing 3 mi. and surface treating 10 mi. macadam road in Dist. 5 from Plumersville to Springfield, and asphalt resurfacing 3.75 mi. Dist. 1, North of Morrillton, both Conway Co.; resurfacing roads in Dist. 3, grading 25 mi. between Clinton and Morrillton and from Morrillton to Scotland, Dist. 4; and rebuilding Point Remove Bridge. R. C. Limerick, highway engr.

Tex., Abilene—Taylor Co. making plans grading, bridging and surfacing with 6 in. compacted gravel and 4 in. macadam with 2 in. bituminous topping 32.71 mi. highway north and south through county, $453,400; also grading, bridging and bituminous macadam and 2 in. bituminous concrete on waterbound macadam paving 7 mi. Highway 1-A, from Abilene to Callahan Co. line, $250,000. L. C. McCanlies, Abilene, engr.

Tex., Beaumont — Making plans hard paving Ash Ave., Pecos Blvd., Avenues A, C and F, Center, Emmett, Elizabeth, Ewing, Houston, Irma, Johna, Laurel, 9th, Orange, Park, Pennsylvania, Royal, Foch, 6th, South, Victoria, Mariposa and Gladys Sts. $400,000. R. C. Slack, Beaumont, city engr.

Tex., Cameron — Milam Co., c/o J. T. Jemp, judge, taking bids tearing down and numbering members of old McCowan bridge near here, hauling and re-erecting 150 ft. span on cut channel of Little River near Buckholts; hauling and re-erecting 100 ft. span of gulch near Black Bridge; constructing piers and approaches for 2 spans at new location. $27,500. A. F. Mitchell, co. engr.

Tex., Denison—Election Apr. 6, $50,000 bonds, paving various streets. C. E. Hayden, Denison, engr.

Tex., Giddings — Lee Co. making plans grading and bridging 10 mi. Taylor-Lexington Highway. $30,000. M. Swain, Caldwell, div. engr.

Tex., George West—Live Oak Co. plans improving 7 mi. Laredo-Houston Highway from Ray Point to Three Rivers. $60,000 bond election soon. E. L. Riser, George West, co. judge.

Tex., Hereford — Takes bids after Mar. 10, brick, concrete or asphaltic type paving 39 blocks various streets. $130,000. Montgomery & Ward, 545 Snider Bldg., Wichita Falls, engrs.

Tex., San Antonio — Bexar Co. making plans asphaltic paving 12 blocks Seguin Rd. from Crosby St. to city limits. $30,000. City appropriates toward cost. I. Ewig, San Antonio, city engr.

Tex., Seguin — Guadalupe Co. making plans grading, bridging and gravel surfacing 17.05 mi. Highway 3 from city limits of Seguin to San Marcos River at Caldwell Co. line, 18 ft. $105,800. H. J. Caulfield, Seguin, engr.

Tex., Shamrock—Making plans permanent paving 55 blocks various streets. $130,000. F. Dubois, Shamrock, engr.

Oklahoma—State Hy. Dept., Oklahoma City, making surveys grading and gravel surfacing 14 mi. Crescent-Marshall Rd., 30 ft., Logan Co., $60,000; and grading, etc., 18 mi. Ellis-Shattuck Rd., 30 ft., Ellis Co., $40,000. J. M. Page, highway engr.

Oklahoma—State Hy. Dept., Oklahoma City, made surveys grading and paving 4.5 mi State Highway 4, 18 ft., Kay Co. $114,000. J. M. Page, highway engr.

Okla., Bethany — Making preliminary plans grading, curbing and concrete paving 22,600 sq.yd. Oklahoma, Canadian and Ash Sts. $70,000. J. C. Biggers, city clk. Engineer not announced.

Okla., Chandler—Plans brick on concrete paving 9th St. from business section to residential section. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., consult. engrs.

Okla., Eldorado—See "Waterworks."

Okla., Elk City — Making plans brick paving various streets residential district. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., consult. engrs.

Streets and Roads (Continued)

Okla., Holdenville — Plans grading and concrete paving 10,465 sq.yd. streets in Dist. 26. $31,728. C. H. Edge, Holdenville, engr.

Okla., Kingfisher — Made preliminary plans grading and concrete paving 17,200 sq.yd. 2nd and Blaine Sts. $46,000. A. Ash, city clk. Engineer not selected.

Okla., Norman—Plans grading, curbing and concrete paving 13,600 sq.yd. streets in Impvt. Dist. 58. $58,420. F. Cobb, Norman, engr.

Okla., Oklahoma City—Plans widening 9 blocks Harvey St., 7,500 sq.yd. sheet asphalt, $40,000; and 15 blocks Walker Ave., 80,000 sq.yd. sheet asphalt, $1,200,000. B. Hart, City Hall, engr.

Okla., Oklahoma City — Plans grading, curbing and sheet asphalt paving 6,150 sq. yd. 17th and Catalpa Sts. $31,460. B. M. Hart, City Hall, engr.

Okla., Oklahoma City — Oklahoma Co. made surveys grading and concrete paving 31,680 sq.yd. State Road 3, south of Harrah, $88,200; and 10,560 sq.yd. Britton-Novina Rd., $30,000. R. S. James, Court House, engr.

Okla., Perry—Making preliminary plans grading and concrete paving 15,550 sq.yd. various streets in Dist. 17. $46,210. C. A. Wood, Perry, engr.

Okla., Stillwater — Plans grading and concrete paving 9,440 sq.yd. East 6th St. $28,867. R. G. Saxton, Stillwater, engr.

Okla., Tipton—Making preliminary plans grading and sheet asphalt paving 6,100 sq.yd. Main St. $27,000. J. W. Collier, Tipton, engr.

Okla., Woodward—Plans paving various streets. To exceed $25,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Okla., Yukon—Voted $66,700 bonds grading, curbing and concrete paving 19,800 sq.yd. Main St. F. Cobb, Norman, engr.

California—State Hy. Dept., Sacramento, making plans widening and thicken pavement on 8 mi. road between Modesto and North county line, Stanislaus Co.; paving 1.25 mi. Seal Beach Rd. and 2 mi. Laguna Beach Rd., both on South Coast Highway, Orange Co., and 7 mi. Mountain Springs Grade on El Centro-San Diego Highway, San Diego Co.; grading and paving 4.5 mi. Oxnard-Hueneme Rd., Ventura Co.; removing dangerous curves and grades from Ventura Blvd. at Chalk Hill, Los Angeles Co.; also 7 timber bridges, Imperial Co. R. M. Morton, highway engr.

Calif., Bakersfield—Made plans improving Union Ave. between Truxton and California Aves., 38,961 sq. ft. 1½ in. Warrenite bitulithic on 4 in. asphaltic concrete surfacing, 1,965 sq.ft. concrete paving, 163 ft. concrete curbing, etc. W. D. Clarke, city engr.

Calif., Burbank—City Council takes bids about Mar. 26, grading, curbing, ornamental lighting, sewering, etc., Pasco Redondo St. To exceed $25,000. J. R. Rose, Burbank, engr.

Calif., Los Angeles — Los Angeles Co. making plans curbing, walks, 8 in. concrete and 2 in. Willite on 3 in. asphaltic concrete with 4 in. disintegrated granite sub-base paving, etc., portion of California Ave., etc., Impvt. 465. To exceed $25,000.

Calif., Los Angeles—Bd. Pub. Wks. takes bids about Mar. 26, curbing, guttering, sidewalks, grading and asphaltic concrete on concrete paving Addison Way, Fresno, 24th and Park View Sts., to exceed $25,000; Saticoy St., Argary Way, Radford and La Mirada Aves., $25,000; also Longacre, Bellvue, Neptune, Wabash and Sayre Aves. J. C. Shaw, City Hall, engr.

Calif., Long Beach — City Council soon take bids curbing, walks, and 7 in. concrete paving 96,599 sq.ft. Loma Ave. between Anaheim and State Sts. R. D. Van Alstine, city engr.

Calif., Pomona—City Council soon takes bids curbing, guttering and waterbound macadam paving 268,000 sq.ft. Orange Grove Ave. $40,000. F. C. Froehde, city engr. Noted Feb. 25.

Calif., San Diego—Made plans grading, curbing, sidewalks and 5 in. concrete paving 20,268 sq.yd. C and 28th Sts. F. A. Rhodes, City Hall, engr.

Calif., San Diego—San Diego Co. plans improving 17th St. from F to Imperial Sts., 412 lin.ft. cement curbing, 1,773 lin.ft. cement sidewalk, 12,132 sq.yd. 1½ in. asphaltic concrete on 2½ in. concrete paving. F. A. Rhodes, City Hall, engr.

Calif., San Francisco—Making plans repaving Washington St. between Mason and Taylor Sts., Clay St. between Mason and Jones Sts., and Mason St. between Sacramento and Clay Sts. To exceed $25,000. M. M. O'Shaughnessy, city engr.

Calif., San Francisco — Made plans improving Woolsey St. between Somerset and University Aves., 2,880 lin.ft. concrete curbing, 1,988 sq.ft. artificial stone walks, 86,600 sq.ft. 1½ in. asphaltic concrete on 6 in. concrete paving, etc. To exceed $30,000. M. M. O'Shaughnessy, city engr.

Calif., San Rafael—Plans 5 in. concrete and asphaltic concrete paving portions of Mira Mar Ave., Reservoir Rd., Ross and Glenn Sts. $70,000.

Calif., Watts—Takes bids about Apr. 26, grading, curbing, 6 in. concrete and 4 in. asphalt paving Monitos Ave., etc. To exceed $25,000. H. B. Carter, Watts, engr.

Ont., Toronto—Plans resurfacing Jameson Ave. $9,896, and Springhurst Ave. $18,536. Work involves 14,000 sq.yd. asphalt. R. C. Harris, City Hall, engr.

Bids Desired

N. Y., New York—Mar. 18, by J. Miller, pres. Manhattan Boro, Municipal Bldg., laying and relaying sidewalks and curbs, when and where directed during year 1926; also granite block on concrete repaving and widening 4th Ave. from 17th to 23rd Sts., and sheet asphalt on concrete paving 4th Ave. from 23rd to 32nd Sts.

N. J., Trenton — Mar. 16, by Hamilton Twp. Comn., Greenwood School, W. R. Hart, clk., bituminous macadam paving 2,900 ft. Bear Swamp Road, 18,000 gal. material. C. S. Sincerbeaux, Mechanic Bldg., engr.

Pa., Coatesville—Apr. 5, by City, grading, paving, etc., 13,000 sq.yd. various streets. L. F. Hoffman, supt. Dept. Streets & Pub. Impvt.; adv. E. N.-R. Mar. 11.

Md., Baltimore—Mar. 17, by Bd. Awards, sheet asphalt paving 12,930 sq.yd. Contr. 314, 9,000 sq.yd. Contr. 315; and redressed granite block paving 9,000 sq.yd. Contr. 316. S. Purcell, City Hall, highways engr.

Virginia—Mar. 19, by State Hy. Comn., Richmond, concrete paving Project 134; bituminous macadam paving Project 428; bridges on Projects 432, 433 and 437; adv. E. N.-R. Mar. 11.

W. Va., Charleston—Mar. 15, by Court Kanawha Co., concrete surfacing 1.1 mi. Ruffner Hollow Rd., 16 ft., Project 143; grading and concrete surfacing 0.56 mi. Sugar Creek Rd., 14 ft., Project 172; grading and concrete or penetration macadam surfacing 0.75 mi. Wilson Hollow Rd., 14 ft., Project 175. R. N. Moulton, co. clk.

W. Va., Huntington—Mar. 26, by Court Cabell Co., improving 5 various projects in Guyandotte Co., incl. 46,000 cu.yd. excav., 2,200 ft. culvert pipe, 178,000 lb. reinforcing, 10,500 cu.yd. concrete, etc. J. M. Oliver, co. engr.

W. Va., Williamson—Mar. 23, by Court Mingo Co., D. M. McKenzie, pres., curbing, guttering, and one course concrete paving, etc., 8,600 sq.yd. and asphalt on 8 in. crushed stone paving 8,600 sq.yd. road leading through town of Matewan, Project 36.

N. C., Smithfield—Mar. 24, by Bd. City Comrs., curbing, guttering, sidewalks, sewers and paving 30,000 sq.yd. various streets. $130,000. G. J. Brooks, Smithfield, engr.

Ala., Birmingham — Apr. 15, by City Comn., asphalt paving 7 blocks 1st Ave. S. and 5th Ave. S. $34,200, 6 blocks 20th Pl. and Ave. Z (Ensley) $25,550, 7 blocks, Anniston Ave., 23rd and 24th Sts. Ensley $35,600, and 5 blocks Ave. Y (Ensley) $25,350, all above 40 ft. wide.

Miss., Biloxi—Mar. 25, by Mayor and Bd. City Comrs., grading, sidewalks, curbing, guttering and 3 in. sheet asphalt on 5 in. concrete or 2 in. asphaltic concrete paving, etc., 55,383 sq.yd. various streets and avenues. Hawkins & Madding, Biloxi, and Gulfport, consult. engrs.

Miss., Winona — Apr. 6, by W. F. Blackston, city clk., curbing and 1-2-3 in. concrete paving 13,000 sq.yd. Speedway, Powell and Beale Aves. $25,000. M. L. Culley, Jackson, and H. Worley, Jr., Winona, engrs.

Louisiana—Mar. 23, by State Hy. Comn., Baton Rouge, graveling Logansport-Gloster Highway, State Project 450-B, DeSoto Parish. W. B. Robert, Reymond Bldg., Baton Rouge, highway engr.

Louisiana—Apr. 6, by State Hy. Comn., Baton Rouge, graveling or clam shell paving 13.025 mi. Hammond-New Orleans Highway, State Project 127-E, St. John the Baptist Parish. W. B. Robert, Reymond Bldg., highway engr.

La., Bastrop—Mar. 23, by Police Jury Morehouse Parish, graveling 6 mi. Bastrop-Monroe Highway, Road 5; also furnishing gravel for project. J. W. Brodnox, pres. police jury.

Kentucky—Apr. 12, by State Hy. Dept., Frankfort, **(F. A. P. means Federal Aid Project and S. A. P. means State Aid Project)**, grading, etc. 10 mi. Jackson-Hazard Rd., F.A.P. 138-B Breathitt Co., 5.8 mi. Maceo-Pates Rd., F.A.P. 105-B Daviess Co., 4.4 mi. Salyersville-Royalton Rd., S.A.P. 28-B Magoffin Co., 7.9 mi. Louisville-Milton-Bedford Rd., F.A.P. 145-A, and 12 mi. same road, Sect. B, both Trimble Co.; grading and waterbound macadam, bituminous macadam or gravel surfacing 11.2 mi. Danville-Hustonville-Liberty Rd., F.A.P. 49-A, Lincoln Co.; and grading, rock asphalt, waterbound macadam or bituminous macadam surfacing 11.6 mi. Maysville-Germantown Rd., S.A.P. 57-A, Mason Co., all above roads 24 and 28 ft. wide. E. N. Todd, highway engr.

Ohio — Mar. 19, by Dept. Hys. & Pub. Wks., Columbus, surfacing with (a) concrete (b) bituminous macadam (c) surface treated macadam (d) concrete and bituminous macadam (e) brick, including brick (f) brick and macadam (g) waterbound macadam, 3.275 mi. Sect. "H" Hamilton-Eaton Rd. (a) $102,686 (b) $102,877 and 0.56 mi. Sect. "Somerville" Hamilton-Eaton Rd. (a) $14,708 (b) $15,070 Butler Co., 0.531 mi. Sect. "Salineville" Salineville-Wellsville Rd., 18 ft., Columbiana Co. (a) $18,655; 3.12 mi. Sect. "E-1" Delaware-London Rd., 18 ft., Delaware Co. (e) $59,418; 0.158 mi. Sect. "B-1" Ceylon-Norwalk Rd., 18 ft., (a) $4,276, 0.628 mi. Sect. "Berlin Heights" same road, 18 ft. (a) $19,155 and 0.628 mi. same section, same road, 11 ft. (a) $8,131, all in Erie Co., 1.032 mi. Sect. "C" Cambridge-Barnesville Rd., Guernsey Co. (a) $41,221 (b) $36,352; 5.725 mi. Sect. "A" Ohio River Rd., 20 ft. Hamilton Co. (d) $346,410 (b) $346,410; 0.256 mi. Sect. "E" Ceylon-Norwalk Rd., 18 ft., Huron Co. (a) $7,908 (b) $7,880; 3.035 mi. Sect. "C-2" Mt. Vernon-Mt. Gilead Rd., 18 ft., Knox Co., (a) $97,147 (e) $124,364; 1.942 mi. Sect. "H-1" McConnelsville-New Lexington Rd., 16 ft., Morgan Co. (f) $60,758 (g) $59,684; 1.225 mi. Sect. "N" Zanesville-Cincinnati Rd. (a) $44,857 (b) $45,969 also 0.604 mi. Sect. "Fultonham" same road, (a) $19,887 (b) $19,531, both 18 ft., Muskingum Co.; 2.789 mi. Sect. "C" Shelby-Ashland Rd., 18 ft., Richland Co. (a) $102,880 (g) $104,197; 4.709 mi. Sect. "A" Cleveland-West Richfield Rd., 20 ft., Summit Co. (a) $219,951 (e) $287,014; 3.56 mi. Sects. "B-1" and "C" Burton-Bloomfield Rd., 18 ft., Trumbull Co. (b) $104,085; 0.759 mi. Sect. "A-1" Van Wert-Ottawa Rd., 18 ft., (b) $31,081 and 1.984 mi. Sect. "A-2" same road, (b) $52,567 both 18 ft., Van Wert Co.; grading, etc. 2.421 mi. Sect. "L" Lancaster-New Lexington Rd., Fairfield Co. $39,392, 0.322 mi. Sects. "A" "M" "N" and "O," Ohio River Rd., 28 ft., Gallia Co., $13,114; crushing, hauling and spreading limestone on 8.2 mi. Sects. "L" and "M" Jackson-Pomeroy Rd., 10 ft., Meigs Co. $7,622, 5.8 mi. Sect. "N" same road Vinton Co. $10,384, 10 mi. Sects "K-2" and "S" McConnelsville-Caldwell Rd., 16 ft., Morgan Co. $18,105, 3.5 mi. Sect. "E" McConnelsville-Cambridge Rd., 10 ft., Morgan Co. $6,371; grading, finishing shoulders and slopes, etc. on 0.322 mi. Sect. "B" Ohio River Rd., 28 ft., Washington Co. $29,005. G. F. Schlesinger highway dir.

O., Akron—Apr. 12, by W. F. Peters, dir. Pub. Serv., grading, curbing, vitr. brick paving, etc., 5,650 sq.yd. Gertrude St., et al., $44,400, 13,260 sq.yd. Inman St. $101,200, 6,055 sq.yd. Bacon Ave. $38,900, and 7,700 sq.yd. Sunset View and Stadelman Aves. $72,000; also grading, walks and cindering 2,000 cu.yd. Stanton Ave. et al., $23,500, and 725 cu.yd. Hunt St. $4,950. E. A. Kemmler, Municipal Bldg., engr. Noted Feb. 25.

O., Cincinnati—Mar. 12, by Comrs. Hamilton Co., grading, guttering and concrete paving 18,320 sq.yd. Camargo Rd. from corporation line of Cincinnati to corporation line of Madera. $130,623. E. A. Gast, Court House, engr.

O., Cincinnati — Mar. 19, by Comrs. Hamilton Co., grading and tar bound macadam paving 8,600 sq.yd. School Sect. Rd. $25,000, 22,600 sq.yd. Muddy Creek Rd. from Bridgetown Rd., to Ebenezer Rd. $59,998, 12,700 sq.yd. Linneman Rd. from Muddy Creek Rd., to Need Rd. $30,705, and 8,200 sq.yd. Livingston Rd. from Blue Rock Rd., to Poole Rd. $25,000. E. A. Gast, Court House, engr.

O., Dayton — Mar. 22, by Comrs. Montgomery Co., sheet asphalt, rein.-con. or macadam paving 27,000 sq.yd. Overlook, Hillcrest, Emerson, Rugby and other roads. $75,000. W. O. Pease, Court House, co. engr.

Indiana — Mar. 23, by J. D. Williams, dir. State Hy. Comn., Indianapolis, brick, bituminous concrete and concrete paving 30.383 mi. F. A. 85, Sect. A, S. R. 1, 2 mi. north of Peru to point 2 mi. north of Mexico, Sect. B, 2 mi. north of Mexico to Fulton Co. line, Sect. C, Miami Co. line to Rochester, Miami Co.; 17.878 mi. Sect. D, S. R. 1, Rochester to Marshall Co. line, Fulton Co., Sect. E, Fulton Co. line to Nickel Plate R.R. crossing, and Sect. F, Nickel Plate R.R. crossing to Plymouth, Marshall Co.; F. A. 101, Sect. A, S. R. 11, Marion to Mt. Etna, Grant and Huntington Counties; F. A. 103, Sect. A, S. R. 8, Crown Point to Hebron, Lake and Porter Counties, etc.

Ind., Elkhart—Mar. 23, by Bd. Pub. Wks., brick, concrete, sheet asphalt or asphaltic

Streets and Roads (Continued)

concrete paving South Blvd., $6,800; Morton Ave., $30,600; Eden St., $18,700; Kinzie St., $4,700; and Milwaukee Ave., $11,600. A. W. Davis, pres.

Illinois—Mar. 18, by City Clerks of La Grange and Brookfield, concrete paving 10,200 sq.yd. East Ave. in La Grange and Brookfield. $34,000.

Ill., Decatur—Mar. 31, by City, extending purification and softening plant, incl. 6 new filters, etc. W. C. Clark, Spitzer Bldg., Toledo, O., consult. engr.; adv. E. N.-R. Mar. 11. Noted Dec. 24.

Wis., Oshkosh — Mar. 16, by Bd. Pub. Wks., vibrolithic, bituminous macadam, or gravel surfacing, etc., various streets. G. H. Randall, city engr.

Ia., Sigourney — Mar. 23, by R. E. Richardson, city clk., City Hall, grading, curbing, 6 and 8 in. rein.-con. paving various streets. $180,000. Brown & Cook, Ottumwa, engrs. Noted Feb. 18.

Minnesota—Mar. 16, by State Hy. Dept., St. Paul, **(S. P. means State Project and F. A. P. means Federal Aid Project)**, paving 70,942 sq.yd. S. P. 3-45, Sect. 3, F. A. P. 363, and 77,760 sq.yd. S. P. 3-45, Sect. 4, F. A. P. 25; and asphaltic concrete paving 67,692 sq.yd. and 13,694 sq.yd. concrete base on S. P. 10-39, F. A. P. 382; grading 190,000 cu.yd. S. P. 6-40, Sect. 2, F. A. P. 349; bridging and grading 342,000 cu.yd. S. P. 5-31, Sect. 1, F. A. P. 380, also 196,000 cu.yd. S. P. 37-21, Sect. 3, F. A. P. 376. Eng. Dept. State Hy. Dept., 1246 University Ave., St. Paul, engrs.

Minn., Hastings — Mar. 24, by R. W. Downs, aud. Dakota Co., 7 in. one course rein.-con. paving, etc., approximately 8,578 sq.yd. Job 2697, State Aid Rd. 7. $25,000. J. Swan, co. engr.

Minn., South St. Paul—Mar. 15, by J. R. Stevenson, city aud., paving approximately 1 mi. various streets. $50,000. P. V. Kelley, city engr. Noted Dec. 10.

Kan., Hoxie—Mar. 27, by Clerk Sheridan Co., grading, three 30 ft. and two 25 ft. deck girder span bridges on 2.424 mi. Federal Adi Project 318-A.

Kan., Iola—Apr. 2, by Clerk Iola Co., grading, guttering and concrete surfacing, etc., 44,153 sq.yd. Federal Aid Project 328-A. A. R. Stroup, Iola, Co., engr. Noted Mar. 4.

Kan., Russell Springs — Mar. 18, by Clerk Logan Co., grading, also two 20 ft. concrete slab and three 25 ft. I-beam span bridges on 2.992 mi. Federal Aid Project 247-A.

Kan., Winfield—Apr. 8 (extended date), by Clerk Cowley Co., concrete or brick surfacing, also one 24 ft. I-beam, one 12 ft. concrete box and one 25 ft. concrete slab span bridges on 8.846 mi. Federal Aid Project 231-C, D, E and F. Noted Feb. 25.

North Dakota — Mar. 11, by State Hy. Dept., and Comrs. Benson Co., Court House, Minnewaukan, grading, etc., 15.294 mi. Federal Aid Project 290-A and B. C. Christensen, highway comr.

North Dakota — Mar. 17, by State Hy. Dept. and Comrs. Ransom Co., Court House, Lisbon, grading, gravel surfacing, etc., 3.175 mi. Federal Aid Project 221-C. C. Christensen, highway comr.

North Dakota — Mar. 15, by State Hy. Comr. and Comrs. Kidder Co., Court House, Steele, grading, etc., 13.985 mi. Federal Aid Project 306-B. C. Christensen, highway comr.

North Dakota—Mar. 24, by State Hy. Comn. and Comrs. Morton Co., Court House, Mandan, grading, etc., 5.338 mi. Federal Aid Project 251-B. C. Christensen, highway comr.

North Dakota — Mar. 26, by State Hy. Comn. and Comrs. Sioux Co., Court House, Ft. Yates, grading, etc., 20.202 mi. Federal Aid Project 259, and 17.955 mi. Federal Aid Project 262. C. Christensen, highway comr.

Missouri—Mar. 19, by State Hy. Dept., Jefferson City, grading, gravel surfacing and concrete paving 153.475 mi. roads in Adair, Barton, Bates, Callaway, Chariton, Christian, Cooper, Douglas, Franklin, Gentry Greene, Harrison, Howell, Iron, Johnson, Lewis, Macon, Mercer and Polk Counties. B. H. Piepmeier, ch. engr. Noted Feb. 25.

Texas — Mar. 22, by H. Moseley, chn. Highway Comn., Austin, grading and bridging, etc. 7.07 mi. Highway 19, Federal Aid Project 485-B, $51,300; also 9.12 mi. same road Federal Aid Project 485-D, $51,300, both 26 ft., Houston Co. F. J. Von Zuben, Crockett, co. engr. Noted Dec. 17.

Tex., Abilene — Taylor Co. taking bids grading and bridging 5.74 mi. Highway 1, Federal Aid Project 468 between Abilene and the Callahan Co. line. $62,000. L. C. McCanlies, resident engr.

Tex., Huntsville—Walker Co. taking bids grading and bridging 17.27 mi. Highway 45, State Aid Project 664-B, $100,000. D. K. Caldwell, Huntsville, engr. Noted Feb. 18.

Tex., Medina—Medina Co. taking bids asphalt paving 11.55 mi. Sect. A, Highway 3, Federal Aid Project 270, 17 ft., $76,500. Terrell Bartlett Engineers, 612 Calcasieu Bldg., San Antonio, engrs.

Tex., Stephenville—Erath Co., grading, bridging and sledged stone on rein.-con. paving 4.96 mi. Highway 10, State Aid Project 563-B, from McClung Constr. Co., F. & M. Bank Bldg., Ft. Worth, $40,588. Engrs. est. $47,000.

Tex., Sweetwater—Nolan Co. taking bids bituminous macadam paving 15.22 mi. State Highway 1, Federal Aid Project 444-B, Unit 2, $348,000; also grading and bridging 9.1 mi. State Highway 7, Federal Aid Project 498, Unit 1, $25,000. J. A. Focht, Sweetwater, co. engr. Noted Jan. 21.

Tex., Weatherford — Parker Co., taking bids grading, bridging and gravel surfacing 5.47 mi. Highway 10 between Cresson and the Parker Co. line. $76,000. Address State Highway Dept., engrs.

Oklahoma—Mar. 16, by State Hy. Dept., Oklahoma City, **(F. A. P. means Federal Aid Project and S. A. P. means State Aid Project)**, grading, bridging, etc., 14.536 mi. Elk City-Sayre Rd., F. A. P. 212-B, C and D, Beckham Co., 114,550 cu.yd. excav., 46.4 tons reinforcing, etc., $65,000, 6 mi. Walters Rd., S. A. P. 109, Cotton Co., 58,060 cu.yd. excav., 23.21 tons reinforcing, etc., $30,000, 14.124 mi. Bristow-Stroud Rd., F. A. P. 136-A, B and D, Creek Co., 131,300 cu.yd. excav., 69.4 tons reinforcing, etc., $78,000, 6.997 mi. Ponca City-Tonkawa Rd., S. A. P. 111-B and C, Kay Co., 51,790 cu.yd. excav., 32.6 tons reinforcing, etc., $35,000, 6.75 mi. Buffalo-Keno Rd., S. A. P. 247, Harper Co., 49,000 cu.yd. excav., 19.3 tons reinforcing, etc., $25,000, 4.6 mi. Tonkawa-Three Sands Rd., S. A. P. 280, Kay Co., 47,140 cu.yd. excav., 17.7 tons reinforcing, etc., $25,000, 6.65 mi. Snyder-Mt. Park Rd., S. A. P. 224-B, Kiowa Co., 55,460 cu.yd. excav., 26.61 tons reinforcing, etc., $25,000, 8.897 mi. Hobert-Gotebo Rd., S. A. P. 226-A and B, Kiowa Co., 71,970 cu.yd. excav., 26.3 tons reinforcing, etc., $35,000, 10.055 mi. Hobert-Lone Wolf Rd., S. A. P. 227-B, C and D, Kiowa Co., 83,160 cu.yd. excav., 38.7 tons reinforcing, etc., $45,000, 9.792 mi. Poteau-Heavener Rd., F. A. P. 132-A, B and E, Le Flore Co., 74,910 cu.yd. excav., 22.4 tons reinforcing, etc., $61,000, and 5.146 mi. Talala Rd., S. A. P. 2-G, Rogers Co., 39,230 cu.yd. excav., 18.45 tons reinforcing, etc., $25,000; grading, gravel surfacing, etc., 7.49 mi. Altus Rd., S. A. P. 229, Jackson Co., 33,800 cu.yd. excav., 16.4 tons reinforcing, etc., $61,000, and 5.238 mi. F. A. P. 193-D, Nowota Co., $25,000; grading, concrete surfacing, etc., 29,572 sq. yd. Yukon Rd., S. A. P. 163-B and C, Canadian Co., $70,000; concrete surfacing 74,220 sq.yd. Pond Creek-Garfield Co. line Rd., F. A. P. 148-C and D, Grant Co. $175,000, 75,176 sq.yd. Beggs Rd., F. A. P. 159-A, Okmulgee Co. $175,000, and 34,120 sq.yd. Picher-Commerce Rd., F. A. P. 105-C, Ottawa Co. $81,000; sheet asphalt paving 54,885 sq.yd. Henryetta Rd., F. A. P. 168-A, Okmulgee Co., $121,000. J. M. Page, highway engr.

Idaho—Mar. 20, by Commissioner Pub. Wks. at office Comrs. Bingham Co., Blackfoot, improving 9.48 mi. Yellowstone Park Highway, Federal Aid Project 61-A-B and C, 4,741 cu.yd. excav., 9,288 lb. reinforcing, 100,003 sq.yd. bituminous paving, and 6,001 cu.yd. crushed gravel shoulders. P. B. Wilson, Sonnenkalb Bldg., Pocatello, dist. engr.

California—Mar. 22, by State Hy Comn., Sacramento, improving streets at Chalk Hill, Los Angeles Co., 62,000 cu.yd. excav., 557,000 sta.yd. overhaul, 2,140 tons broken stone (water bound base), 1,070 tons broken stone for bituminous surfacing, 52 tons asphalt road oil, etc. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., Blythe—City Trustees taking bids curbing, walks, 1½ in. Durite asphaltic concrete on 3½ in. asphaltic concrete surfacing 350,000 sq.ft. Hobsonway and portions of Main St. A. C. Fulmor, city engr. Noted Jan. 7.

Calif., Santa Cruz — S. A. Evans, city clk., taking bids grading, 5 in. concrete paving, etc., Laurent St. between Mission and California Sts. J. K. James, city engr.

Ontario — Mar. 22, by S. L. Squire, deputy minister highways, Dept. Pub. Highways, Toronto, asphaltic concrete paving 6.41 mi. Contr. 1289, $240,000; concrete paving 23.29 mi. Contrs. 1290 to 1293 (inclusive), $700,000; bituminous macadam paving 33.89 mi. Contrs. 1294-1301 (inclusive), $450,000; waterbound macadam paving 26.3 mi. Contrs. 1302-1306 (inclusive), $300,000; grading Contr. 1307, $15,000; oiling 61.3 mi. Contrs. 1308-1310, $60,000; also concrete culverts and abutments, Contrs. 1311-1313 (inclusive), $30,000; and steel superstructures, Contrs. 1314 and 1315, $25,000. R. M. Smith, 110 University Ave., Toronto, ch. engr.

Bids Received

New Jersey—Bd. Freeholders Monmouth Co., Court House, Mar. 3, concrete paving 2.388 mi. Allenwood-Manasquan Rd., in Manasquan, from Interstate Eng. & Contg. Co., 918 Catherine St., Phila., Pa. $90,585; and 0.57 mi. Biggetts Park-Manasquan Rd., in Biggetts Park, from P. Camillo & Co., 335 Spring St., Westfield, $25,694. Noted Feb. 18.

Pennsylvania—State Hy. Dept., Harrisburg, Mar. 2 **(R. means Route and A. means Application)**, one course rein.-con. paving 36,436 ft. R. 241, Sect. 4, Bradford Co., from M. Bennett & Sons, Indiana, $543,781, 32,360 ft. R. 242, Sect. 3, A. 3703-3617, Washington Co., from Blue Ridge Constr. Co., Inc., Uniontown, $285,499, 14,610 ft. R. 140, Sect. 3689, Dauphin Co., from W. H. Murphy & Sons, 2100 State St., Harrisburg, $114,329, 4,458 ft. R. 182-240, A. 3765, Montour Co., from T. B. Evans, 344 Ferry St., Danville, $36,181, 15,657 ft. R. 175, A. 3921, Lehigh Co., from D. L. Risser, 713 Walnut St., Lebanon, $117,298, 10,797 ft. R. 133, Sect. 5, Delaware Co., from Ambler-Davis Co., Harris Bldg., Phila., $104,514, 9,679 ft. R. 59, A. 3525-3526-3794, Jefferson and Clearfield Counties, from Metzger, Kirkpatrick & Wallis, Emporium, $62,245, 19,461 ft. R. 234, Sect. 1, A. 3577-3923, Cambria Co., from Payne-Yost Constr. Co., 1101-3 Diamond Bank Bldg., Pittsburgh, $142,362; also one course rein.-con. or bituminous wearing surface on concrete paving 11,565 ft. R. 447, A. 3819, Crawford Co., from H. E. Bunce, 12 South Fulton St., Olean, N. Y., $100,667. Noted Feb. 4.

Md., Towson—Baltimore Co., Mar. 2, concrete paving 1.22 mi. Pittsburgh Ave. from Dundalk to Sollers Point (Group 10), from Christhilf & Ensey Co., 1625 Ridgely St., Baltimore, $38,009. Noted Feb. 25.

South Carolina—State Hy. Dept., Columbia, Mar. 2, grading, sand clay surfacing, etc., 5.7 mi. State Route 24, State Project S-589-C, Orangeburg Co., from J. F. Cleckley Cope, $29,408; topsoiling, etc. 10.5 mi. State Route 55, State Project S-603, Greenwood Co., from J. H. Milford, Greenwood, $41,607 and 2.9 mi. State Route 7, State Project S-625, Abbeville Co., from McCalla Bros., McCormick, $32,265. Noted Feb. 18.

Louisiana — State Hy. Comn., Baton Rouge, Mar. 2, graveling 4.23 mi. Sorrento-Burnside Highway, State Project 359-E, Ascension Parish, from Robinson Constr. Co., Centerville, Miss., $22,615; and 8 mi. Logansport-Gloster Highway, Project 450-B, De Soto Parish, from J. C. Leathers, Moreouville, $45,898. Noted Feb. 4.

O., Akron—W. F. Peters, dir. Pub. Serv., Mar. 1, grading, curbing and asphalt paving 2,400 sq.yd. Moreley Ave., from Columbus Asphalt Paving Co., 304 Buckeye Bldg., $19,242. Engrs. est. $25,000. Noted Feb. 18.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., from J. Datka, 1147 10th Ave., grading Euclid Ave. between 5th and 9th Aves., $17,163; from Milwaukee General Constr. Co., 427 Mitchell St., vibrolithic concrete paving Sheridan Ave. and Nevada St. $15,342, Hayes St. and Vienna Ave. $2,222, 13th Ave. $9,309, and 23rd and Cleveland Aves. $10,389; from W. F. Hunt, 405 Bway., 24th and West 24th Sts. $24,368, 24th and West 24th Sts. between Lake St. and Hope Ave. $23,253, 25th and 26th Sts. $23,015, 1st and Vienna Aves. $16,376, and Island Ave. $11,077; and from A. E. Retzlaff, 868 Island Ave., 48th and 49th Sts. $11,800.

Wis., Two Rivers—R. Biehl, city mgr., Feb. 24, grading, curbing, and paving 30,000 sq.yd. various streets, from E. J. Streu, Two Rivers, vibrolithic concrete $56,815, and two course concrete $60,715. Noted Feb. 18.

Wash., Seattle—Bd. Pub. Wks., grading, curbing and concrete paving North and West 76th St., et al, from J. L. Smith, 304 West 36th St., $31,981. Engrs. est. $34,783.

Calif., Los Angeles—Bd. Pub. Wks., Feb. 23, from M. S. Ross, 4651 Hollywood Blvd., improving Dixie Canyon Ave. between Chetenham and Mullholland Dr., grading $110,000, 24,795 lin.ft. wood guard rail $0.60 per lin.ft., corrugated pipe culvert $3,000, total approximately $127,877; from H. A. McCray, Amer. Bank Bldg., Kenilworth Ave. between Moreno Dr. and August St., grading $10,000, 345,790 sq.ft. 5 in. concrete paving $0.173 per sq.ft. 27,485 lin.ft. reinforced monolithic curbing $0.42, 12,981 sq.ft. one-course walks $0.135, etc., total approximately $138,020. Noted Feb. 11.

Calif., Los Angeles — Supervs. Los Angeles Co., from H. and P. Constr. Co., improving Palm Ave. Impvt. 497, 6,864 lin.ft. curbing $0.425 per lin.ft., 14,061 sq.ft. guttering $0.18, 351 sq.ft. sidewalk $0.18,

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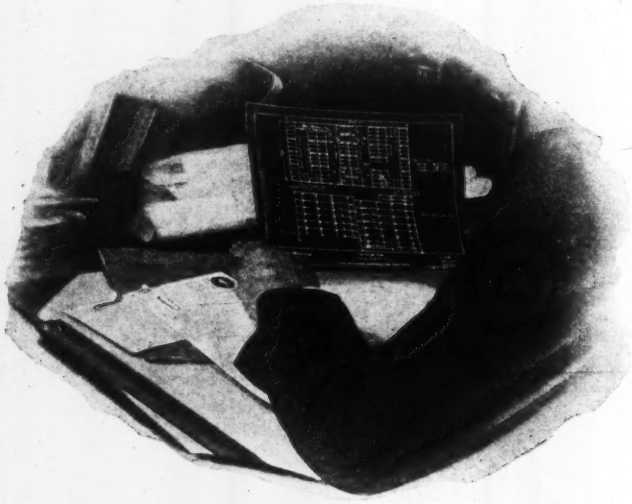

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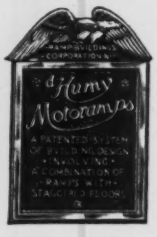

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Streets and Roads (Continued)

[illegible] cu.yd. excav. $0.43, 112,786 sq.ft. disintegrated granite sub base $0.05, etc., total $75,702. Engrs. est. $85,200.

Calif., Mountain View — From Union Paving Co., Call Bldg., Oakland, improving Pettis, Mt. View Aves., etc., 443,430 sq.ft. grading $0.26 per sq.ft., 377,900 sq.ft. 4 in. Warrenite bitulithic paving $0.188, 65,-000 sq.ft. 4½ in. Warrenite bitulithic paving $0.199, etc., total approximately $137,575. Noted Feb. 4.

Calif., Oakland—Supervs. Alameda Co., from M. Blumenkranz, Farmers & Merchants Bldg., Stockton, improving Crow Canyon Rd., 52,000 cu.yd. excav. $0.50 per cu.yd., 1,700 cu.yd. culvert excav. $1, etc., total $49,710.

Calif., Santa Cruz—S. A. Evans, city clk., grading, curbing, concrete paving, etc. portions of Berkeley Way, Market and Washburn Sts., from Thompson Bros., H and Divisadero Sts., Fresno, $43,001. Noted Feb. 11.

Calif., Walnut Creek — City Trustees, from G. W. Cushing, 2005 Roosevelt Ave., Richmond, improving various streets, 150,-000 sq.ft. 5 in. concrete paving $0.18 per sq.ft., 137,527 sq.ft. 7 in. asphaltic macadam paving $0.12, 19,527 lin.ft. concrete curbing $0.45, 14,085 sq.ft. concrete guttering $0.15, etc., total approximately $69,865. Noted Feb. 18.

Contracts Awarded

N. J., Camden — Delaware River Bridge Joint Comn., Widener Bldg., Phila., Pa., G. Pinchot, chn., grading, paving, etc., Camden Approach between 5th and 7th Sts., Contr. 27, for bridge over Delaware River, connecting cities of Camden and Phila., Pa., to O'Neil Co., 23rd and Spring Garden Sts., Phila., $150,460. Noted Feb. 18.

Pennsylvania—State Hy. Dept., Harrisburg, rein.-con. paving, etc., 17,641 sq.yd. Route 246, Sect. 3, Allegheny Co., to M. O. Herron Co., South 1st and McKean Sts., Pittsburgh, $91,235, and 5,900 sq.yd. Route 68, Application 3768, Indiana Co., to M. Bennett & Sons, Indiana, $43,357; grading, etc., 79,984 cu.yd. Route 246, Sect. 2, Warren and Forest Counties, to Milligan & Ringler, Blairsville, $214,918. Grand total $349,510. Noted Mar. 4.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, grading, etc. area south of Shunk St. between Delaware and Schuylkill Rivers, to Turner Constr. Co., 1713 Sansom St., $702,782; lighting for grounds and buildings, etc., to W. V. Pangborne, 1927 West Montgomery St., $182,968. Furnishing and equipping buildings, to A. Pomerantz & Co., 1525 Chestnut St., $19,338. Grand total $905,088. Noted Feb. 18.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to Barber Asphalt Co., 239 North 30th St., asphalt repaving Armat, Lena, Maplewood, Meehan, Seymour, Sheldon, Shedaker and Wister Sts. $80,980, Clinton and Kater Sts. $21,318, and 47th St. $26,-454, to Mack Paving & Constr. Co., Nicetown Lane and Luzerne Sts., Carlisle, Pacific, Westmoreland and 23rd Sts. $31,495, and Lehigh St. $15,346, to Eastern Asphalt Co., Pennsylvania Bldg., Clarissa St. $77,-247, Myrtlewood, Pemberton and Watkins Sts. $24,409, to Union Paving Co., 30th and Locust Sts., Market St. (track area) $67,-096, and 38th St. $25,853; to United Paving Co., Real Estate Trust Bldg., redressed granite block repaving Bainbridge St. (track area) $12,862, to C. G. Centrone, Bailey Bldg., Fulton, Orianna, Chancellor, Water, Marshall, Franklin, Hancock, and Sansom Sts. $26,850, Leithgow and 7th Sts. $26,645, Richmond St. $21,992, and Salaignac and Terrace Sts. $8,293; to M. and J. B. McHugh, 892 North Markoe St., curbing and footway work (owners to pay) Dist. 1 $15,567, Dists. 5 and 7 $18,864, to J. Zeaca & Co., 6441 Vine St., Dist. 2 $7,898, to L. Baker, 1518 North 18th St., Dist. 6 $9,987; and to J. F. O'Rourke, 925 North 47th St., curbing and footway work (city to pay) $10,968. Grand total $634,187. Noted Feb. 25.

Fla., Miami—City Comrs., grading, curbing, guttering, 2 and 3 in. sheet asphalt surfacing PV 69, 70, 71, 72, 73, 74, 75, to Highway Constr. Co., West 112th St. and Madison Ave., Cleveland, O. Noted Feb. 11.

La., Alexandria—Grading, curbing and brick paving 3,496 sq.yd. Ressellar and 4,800 sq.yd. Vance Ave., to Thurber Constr. Co., Alexandria, at $3.30 per sq.yd. Noted Dec. 31.

Ohio — Dept. Highways & Pub. Wks., Columbus, grading and concrete paving 3.144 mi. Sect. "B" Carrollton-New Philadelphia Rd., 18 ft., Carroll Co., to Urban Bros., Massillon $139,824, 1.922 mi. Sect. "B" Natl. Rd., Clark Co., and 2.202 mi. Sect. "E" same road, to Mannix Bros., Springfield $62,020 and $65,995 respectively, 3.82 mi. Sects. "C-2 and C-3" Findlay-Delphos Rd., Hancock Co., to C. E. Edington, Findlay $74,918, 0.97 mi. Sect. "L-1" Mansfield-Millersburg Rd., Holmes Co., to Allen Paving Co., Lima $2,957, and 3.93 mi. Sect. "A" East Akron-Massillon Rd., Summit Co., to G. S. Mellert, Medina, $135,-293; gravel surfacing 2.95 mi. Sect. "E" Mt. Vernon-Coshocton Rd., Coshocton Co., to Brilhardt & Wright, Warsaw, $39,858; traffic bound limestone paving 0.097 mi. Sect. "B-2" McArthur-Logan Rd., Hocking Co., and 6.693 mi. Sects. "A-3 and B" same road, to L. S. Gaty, 387 Linwood Ave., Columbus, $7,927 and $83,522 respectively; asphaltic macadam paving 3.68 mi. Sects. "O" "P" and "Solon" Springfield-Washington C. H. Rd., Madison Co., to N. B. Putnam, Columbus $88,587, 3.377 mi. Sect. "P" Chagrin Falls-Greenville Rd., Trumbull Co., to Laubis Stone Co., Kenton, $89,-739; grading, etc. 2.229 mi. Sect. "G" Newark-Coshocton Rd., Licking Co., to Edwards Constr. Co., Sunbury, $21,334. Grand total $811,974. Noted Mar. 4.

Ill., East St. Louis—See "Sewers."

Ill., Sycamore—Bd. Local Impvts., grading, curbing, guttering and 7 in. concrete paving 37,726 sq.yd. various streets, to Trompeter & Sons, Peru, $117,919. Noted Jan. 14.

Ia., Albia — Bd. Supervs. Monroe Co., improving 9.87 mi. Federal Aid Project 240-A and B, grading, to Naylon Bros., Omaha, Neb., $37,000; and culverts, to A. Emmert, Newton, $17,000. Noted Feb. 11.

Ia., Battle Creek—Grading, curbing, guttering and asphaltic concrete on 5 in. concrete paving 57,794 sq.yd. various streets, to Western Asphalt Paving Co., 1st and Nebraska Sts., Sioux City, $148,000. Noted Jan. 28.

Ia., Corydon—Bd. Supervs. Wayne Co., improving 9.336 mi. Corydon Rd., Federal Aid Project 237, 218,808 cu.yd. excav., 435,-300 yd. overhaul, etc., to J. C. Parquette, 2347 Capitol St., Des Moines, $66,891. Noted Feb. 11.

Kan., Topeka—For 6 in. concrete paving 32,698 sq.yd. various streets, to C. A. Ramsey, Topeka, $74,369.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Eyermann Bros. Constr. Co., 1216 South Grand Blvd., brick paving 3,510 sq. yd. Virginia St. $21,567, to Parkinson Bros. Constr. Co., 3237 Carter Ave., 2,705 sq.yd. Scott Ave. $20,366, 1,695 sq.yd. Wilson Ave., $10,777; to Skrainka Constr. Co., Security Bldg., concrete paving 5,660 sq.yd. McCune St., $25,214; to Central Paving & Constr. Co., 6161 Maple Ave., Warrenite paving 14,410 sq.yd. Cass Ave., $41,560; to Webb-Boone Paving Co., 5103 Fyler Ave., asphaltic concrete paving 710 sq.yd. Dewey St. $4,767, 1,235 sq.yd. DeTony St. $7,919, 1,300 sq.yd. Walnut St. $8,459, and to Trinidad Asphalt Mfg. Co., Rankin Ave., 3,035 sq.yd. Walnut St., $19,900. Grand total $160,529.

Ark., Siloam Springs—Grading, curbing, guttering and rein.-con. paving, etc., 28,000 sq.yd. Paving Dist. 4, and 1,705 ft. 15- to 24-in. storm sewers to E. H. Locher, Okmulgee, $81,504; also bridge on street, to W. L. Miller, Siloam Springs, $7,859.

Tex., Abilene—Warrenite bitulithic paving 14 blocks North 2nd St. from Almond St. to city limits, and Highland Ave. from Dallam to 8th Sts., to West Texas Constr. Co., Abilene, $3.03 and $2.27 per sq.yd. respectively. Engrs. est. approximately $35,000.

Tex., Austin—Travis Co., clearing, bridging and grading 5.345 mi. State Highway 29, State Aid Project 634, 26 ft., 7,581 lb. reinforcing, to Smith-Boyette Co., Bryan, $38,701. Engrs. est. $34,000. Noted Jan. 21.

Tex., San Antonio — Bexar Co., gravel surfacing 10 mi. St. Hedwig and Abbot Rds., 18 ft., to C. M. Kelly, 506 Pershing St., $35,000.

Tex., Tulia—For 2½ in. brick on 4 in. concrete paving 47,000 sq.yd. various streets, to Jordan Constr. Co., Plainview, $131,806. Engrs. est. $140,000.

Tex., Wichita Falls — Rein.-con. paving 11 blocks Polk St. from 6th to 7th Sts., Sunset Dr. and Elizabeth St., to L. E. Whitham & Co., Wichita Falls, $3 per yd., engrs. est. $32,000; also 2 in. Willite on 5 in. concrete paving 8 blocks Avenues O and N, to Plains Paving Co., c/o Staley Bldg., $3 per yd., engrs. est. $36,400.

Tex., Wichita Falls—Willite on 5 in. concrete paving 5 blocks Taft St., to Plains Paving Co., Wichita Falls, approximately. $35,000.

Okla., Clinton — Grading, curbing and sheet asphalt paving 5,630 sq.yd. Modell Ave., to Western Paving Co., Tradesmens Bldg., $28,590. Engrs. est. $29,115.

Okla., Frederick — To Western Paving Co., Tradesmens Bldg., Oklahoma City, Warrenite bitulithic paving various streets in Impvt. Dist. 7 $20,849, Impvt. Dist. 8 $38,798, and Impvt. Dist. 9 $3,529. Grand total $63,176. Noted Feb. 25.

Okla., Hobart — Grading, curbing and concrete paving 10,800 sq.yd. West 3rd St., to Ward-Beekman & Brooks, Guthrie, $35,-306. Engrs. est. $36,610.

Calif., Culver City—For 1½ in. Warrenite bitulithic on 4½ in. bituminous concrete paving, etc., Jefferson St., to Braun, Bryant & Austin, California Bldg., Los Angeles, $53,765.

Calif., Hanford — E. F. Pickerill, clk. King Co., asphalt paving 2 mi. highway from Armona easterly, to California Constr. Co., 58 2nd St., San Francisco, $39,-535. Noted Feb. 18.

Calif., Los Angeles—To Baker & Vigus, Los Angeles, curbing, walks, concrete paving, etc. Frigate Ave. between J and Anaheim Sts., $30,997; to G. H. Oswald, 366 East 58th St., concrete and asphaltic concrete paving, curbing, walks, etc. on 3rd St. between Harbor Blvd. and Pacific Ave. $78,750, San Marino St. between Magnolia St. and Kingsley Dr. $50,756, and Manchester Ave. between Western and Van Ness Aves. $31,672. Grand total $192,175. Noted Feb. 11 and 25.

Calif., Monrovia—Meline Co., Pasadena, grading, curbing, guttering, walks, etc. on Chateau Park Tract, here, to Stansbury Constr. Co., H. W. Hellman Bldg., Los Angeles, approximately $45,500. Noted Jan. 28.

Calif., Riverside—To R. T. Shea Co., 169 West 7th St., improving Grand Ave., 119,888 sq.ft. macadam paving $0.128 per sq.ft., 12 in. corrugated culverts $1.75, 10 in. $1.50, and 18 in. concrete culverts $3.

Calif., San Diego — A. H. Wright, city clk., improving Muir Ave., to G. R. Daley, 4430 Boundary St., $36,067; also Essex, Herbert and Vermont Sts., to Griffith Co., 25 14th St., $39,397. Noted March 4.

Calif., San Diego—San Diego Co., sidewalks, curbing, 2½ in. on 3½ in. asphaltic concrete paving, etc., Kettner Blvd., to R. E. Hazard Contg. Co., Kettner Blvd., $100,-067. Noted Jan. 7.

Calif., Whittier—Grading, curbing, walks and 78,765 sq.ft. 6 in. and 110,435 sq.ft. 5 in. concrete paving, etc. portion of Philadelphia St., to Griffith Co., Railway Bldg., Los Angeles, approximately $75,915. Noted Mar. 4.

Washington—State Hy. Dept., Olympia, grading, crushed rock surfacing, etc., 7,600 cu.yd. State Rd. 10, Okanogan Co., to Cole & Strong, Riverside, $29,887, and 7,800 cu. yd. State Rd. 10, Chelan Co., to F. G. Redman, 206 South 4th Ave., Yakima, $6,080; also grading, etc., 442,000 cu.yd. State Rd. 12, Cowlitz Co., to R. B. Magruder, Clatskanie, Ore., $82,098. Grand total $118,065.

Wash., Seattle—Bd. Pub. Wks., concrete sidewalks on 8th Ave. N. E. et al, to Paduano & Crisman, 1546 12th Ave. S., $41,621.

Wash., Seattle—Comrs. King Co., paving 15 mi. North 85th St., to J. L. Smith, 304 West 36th St., $45,497; engrs. est. $50,000; and grading, etc. 3 mi. Des Moines-Kent Highway, to A. C. Georig, Pantages Bldg., $50,962, engrs. est. $50,000.

Ont., Toronto—York Twp., concrete curbing, guttering and bituminous concrete on concrete paving 2,100 ft. Rogers Rd. from Oakwood Ave. to Dufferin St. F. B. Goedike, 40 Jarvis St., engr.

Buildings—Commercial

Proposed Work

Mass., Malden (Boston P. O.)—MUNICIPAL—City, Mayor's Office, City Hall, plans municipal building. $525,000. Engineer and architect not selected.

Mass., Salem—GARAGE—City, City Engineer, City Hall, plans municipal garage, etc., Howard St. $150,000. Architect not selected.

Mass., Worcester—AUDITORIUM—City, Pub. Building Dept., City Hall, plans auditorium. $200,000. Engineer and architect not selected.

Mass., Worcester—APARTMENT—Lincoln Constr. Co., c/o McFarland & Laurie, archts., 160 Newbury St., Boston, having preliminary plans prepared brick and steel, Chestnut St. $375,000.

Mass., Worcester — EXCHANGE — New England Telephone & Telegraph Co., Mechanic St., having plans prepared by Denmore, LeClear & Robbins, 31 St. James St., Boston, exchange, Elm and Chestnut Sts. $150,000.

Conn., Bridgeport — CLUB — Algonquin Club, 211 State St., had plans prepared by E. G. Southey, 983 Broad St., 2 story and basement, 95 x 110 ft., brick and steel, Broad and Gilbert Sts. $200,000. Noted Jan. 28.

Conn., Hartford—TEMPLE—Blue Lodges (Masonic) O. J. Hart, chn., having plans prepared by F. I. Cooper, 983 Main St., 4

Buildings—Commercial (Continued)

story and basement, brick and steel, Farmington Ave. $650,000. Noted Feb. 2.

N. Y., Albany — APARTMENT — J. P. Sewall, 378 Morris Ave., having plans prepared by W. McCullough, engr. and archt., 25 West 44th St., New York City, 7 story, brick, steel and stone, plain foundation, Hudson Ave. $850,000.

N. Y., Albany—GARAGE—F. Braun, 29 Hamilton St., Albany, having plans prepared by O. Goldschlag, engr. and archt., 1428 Bway., New York City, 2 story, rein.-con., brick and steel, plain foundation, Hamilton St. $150,000.

N. Y., Albany—HOTEL and STORE—Metropolitan Realty Co., c/o C. H. Crane, engr. and archt., 345 Madison Ave., New York City, having plans prepared brick, steel and stone, plain foundation, State and Lodge Sts. $4,000,000.

N. Y., Brooklyn—APARTMENT—Brooklyn Realty Co., c/o Shampan & Shampan, engrs. and archts., 188 Montague St., having plans prepared 12 story, brick, steel and stone, plain foundation, Eastern Parkway. $1,500,000.

N. Y., Brooklyn—BANK and OFFICE—Manufacturers Trust Co., 139 Bway., New York City, having plans prepared brick, steel and stone, plain foundation, Bway. and Sumner Ave. $400,000. Private plans.

N. Y., Brooklyn—COMMUNITY—Jewish Centre, 667 Eastern Parkway, soon takes bids 4 story, brick, steel and stone, plain foundation, Ocean Parkway. $350,000; Block & Hesse, 18 East 41st St., New York City, engrs. and archts. Noted Jan. 28.

N. Y., Brooklyn—THEATRE—Famous Players Lasky Corp., 485 5th Ave., New York City, plans brick, steel and stone, plain foundation, Flatbush and Snyder Aves., here. $1,000,000. Engineer and architect not selected.

N. Y., Lockport—MASONIC TEMPLE—Masonic Lodge having preliminary plans prepared by H. J. Cook, 408 Pearl St., Buffalo, for Masonic temple. $150,000.

N. Y., Montauk—HOTEL—Montauk Beach Development Corp., C. G. Fisher, 52 Vanderbilt Ave., New York City, soon lets contract brick, steel and stone, plain foundation, here. Schultze & Weaver, 17 East 49th St., New York City, archts.

N. Y., New York — APARTMENT — Caughey & Evans, engrs. and archts., 29 West 34th St., preparing plans 13 story, brick, steel and stone, West 58th St. $800,000. Owner's name withheld.

N. Y., New York—HOTEL—Luigi Gerbino, c/o Schwartz & Gross, engrs. and archts., 347 5th Ave., having plans prepared 22 story, brick, steel and stone, plain foundation, West End Ave. and 92nd St. $4,000,000.

N. Y., New York—HOTEL—A. Kosofsky, c/o Hudson Bay Fur Co., 662 6th Ave., having plans prepared by F. P. Platt & Bro., engrs. and archts., 221 West 57th St., 26 story, 45 x 75 ft., brick, steel and stone, plain foundation, 6th Ave. and 46th St. $1,000,000.

N. Y., New York—OFFICE—Federation for Support of Jewish Philanthropic Societies, c/o Buchman & Kahn, engrs. and archts., 49 West 45th St., having plans prepared 17 story, brick and steel, plain foundation, 67-71 West 47th St.

N. Y., New York—THEATRE—A. E. Erlanger, 214 West 42nd St., having plans prepared by Warren & Wetmore, engrs. and archts., 16 East 47th St., brick, steel and stone, plain foundation, 246 West 44th St. $1,000,000.

N. Y., Syracuse—OFFICE—Mar. 10, by Syracuse Post Standard, brick, steel and stone, plain foundation. $1,000,000. M. L. King, Denison Bldg., archt.

Pa., Altoona — THEATRE — Silverman Bros., 1510 11th Ave., having plans prepared by Hodgens & Hills, 130 South 15th St., Phila., 1 story and basement, brick and steel, 12th St. $150,000.

Pa., Phila.—BANK—W. Penn Title & Trust Co., c/o J. F. Bradley, archt., 1121 Filmore Ave., having plans prepared 4 story and basement, 32 x 90 ft., rein.-con., granite and steel, plain foundation, Market and Edgewood Sts.

Pa., Waynesburg—HOTEL—Ft. Jackson Hotel Co. having plans prepared by Bartholomew & Smith, Keenan Bldg., Pittsburgh, 4 story and basement, 60 x 180 ft., brick, stone and steel, Main St. $300,000.

Md., Baltimore—GARAGE—Ramp Building Corp., 21 East 40th St., New York City, having plans prepared 5 story, 100 x 100 ft., rein.-con., plain foundation, Water St. near South St., here. $300,000. F. W. Moe, c/o owner, ch. engr.

Md., Baltimore—INDUSTRIAL HOME—Salvation Army, Sharp and Montgomery Sts., having plans prepared by W. W. Emmart, Union Trust Bldg., 3 story, 80 x 100 ft., brick and steel, plain foundation, Fremont, Briscoe and Henrietta Sts. $150,000. Noted Feb. 4.

D. C., Wash.—OFFICE—United Brotherhood of Carpenters & Joiners of America, Local 132, soon takes bids 8 story, 50 x 100 ft., rein.-con., brick and Indiana limestone, 10th and K Sts. O. H. Miller, McLachlen Bank Bldg., archt.

N. C., Charlotte—TEMPLE—Oasis Temple Shriners of Western North Carolina plan stone temple, 80 ft. high, East Morehead St. and Dillworth Rd. $500,000. W. S. Liddell, 600 East Ave., secy. Engineer and architect not announced.

N. C., Greensboro—BANK and OFFICE—Greensboro Bank & Trust Co., having plans prepared by C. C. Hartmann, Greensboro, 12 story, granite and marble first 2 story, brick other 10 story, Elm St. $1,000,000.

N. C., Knollwood (mail Aberdeen) — HOTEL—Mid-South Hotel Corp., Southern Pines, (R. Page, Aberdeen, interested), plans 200 room, fireproof hotel, Midlands Rd., here. $1,000,000.

Fla., Ft. Lauderdale—HOTEL—W. H. Marshall, had plans prepared by J. M. Peterman, 346½ Los Olas Bldg., 11 story, steel, tile and rein.-con., on 75 x 130 ft. site, Las Olas Blvd. $500,000. A. Belsam, 420 Calumet Bldg., engr.

Fla., Jacksonville — HOTEL — George Washington Hotel soon lets contract 12 story, brick and steel hotel, plain foundation. Marsh & Saxelbye, West Bldg., archts. and engrs.

Fla., Leesburg—LODGE—Herman Lodge 27, Knights of Pythias, L. M. Johnson, chn., plans 5 story lodge, 3rd St. $150,000.

Fla., Miami—THEATRE—Robertson & High, 928 Flagler St., had plans prepared by G. E. T. Wells, Exchange Bldg., theatre, 2,500 seating capacity, incl. 11 stores and shops, on 140 x 200 ft. site, 8th St. and 8th Ave. $200,000.

Fla., Miami Beach—THEATRE—G. E. T. Wells, archt., Exchange Bldg., soon lets contract 2 story, 2,000 seating capacity, incl. stores and arcade, rein.-con. and tile, Collins Ave. and Biscayne St., for Smith Co. Inc.

Fla., Perry—HOTEL—Community Hotel having plans prepared by F. A. Winn, Citizens Bank Bldg., Tampa, rein.-con. hotel. $350,000.

Fla., Wildwood — THEATRE — M. M. Toddy, et al., having plans prepared by Avery & Round, St. Petersburg, theatre. $150,000.

Miss., Meridian—HOTEL—Meyer Bros. having plans prepared by P. J. Krouse, Meridian, 8 or 10 story, 156 room, 21st Ave. and 5th St. $150,000 plus. Noted Mar. 4.

La., New Orleans—OFFICE—Huszagh & Hill, archts., 6 North Michigan Ave., Chicago, Ill., preparing plans and take bids about May 1, 6 story and basement, 100 x 125 ft., rein.-con. and stone, here, for Pan Amer. Petroleum Corp., New Orleans.

O., Akron — WAREHOUSE — Saalfield Publishing Co., Miller Ave. and High St., plans 6 story and basement warehouse adjoining present building. $150,000.

O., Cincinnati — APARTMENT — W. A. Marqua, 3456 Vine St., having plans prepared by J. G. Steinkamp & Bros., Mercantile Library Bldg., 3 story and basement, 90 x 105 ft., rein.-con. and brick, plain foundation, Reading Rd. $150,000.

O., Cleveland — APARTMENT — J. E. Sague, 2087 Abington Rd., had plans prepared by H. T. Jeffrey, 10308 Euclid Ave., 3 story and basement, 55 x 111 ft., brick, 2034 Cornell Rd. $150,000.

O., Cleveland—COMMERCIAL, APARTMENT and GARAGE—Detroit-Hird Impvt. Co., c/o M. S. Galvin, Guarantee Title Bldg., had plans prepared by A. W. Harris, Guarantee Title Bldg., 1 and 2 story and basement, brick, steel and concrete, Detroit Ave. $150,000.

O., Cleveland — POLICE STATION — City, W. R. Hopkins, mgr., City Hall, having plans prepared by H. Kregelius, 604 City Hall, 2 story and basement, 85 x 102 ft., brick, steel and concrete, East 37th St. and Longwood Ave.

O., Cleveland—SALES and STORAGE—Studebaker Corp. of American, c/o E. R. Parker, 2000 Euclid Ave., having plans prepared by W. S. Ferguson Co., 1900 Euclid Bldg., 2 story, 105 x 140 ft., brick, steel and concrete, West 117th St. $150,000.

O., Columbus—HOTEL—H. M. Frech, Worthington, having revised plans prepared by R. Sims, Grand Theatre Bldg., 7 story and basement, 62 x 133 ft., rein.-con. and brick, Town and Pearl Sts. $350,000.

O., Columbus — MUNICIPAL — City had plans prepared by Allied Architects Assn., 82½ East Broad St., 5 story and basement, concrete, stone and steel, Water St. between Broad and Gay Sts. $900,000.

O., Lakewood (br. Cleveland)—STORAGE—Lakewood Fireproof Storage Co., J. J. Gund, pres., 14401 Detroit Ave., Cleveland, having plans prepared by W. S. Ferguson Co., 1900 Euclid Bldg., Cleveland, 6 story and basement, brick and concrete addition, Detroit and Lincoln Aves. $150,000.

Ind., Indianapolis — GARAGE, [illegible] — Indianapolis Power & Heat Co., W. C. Marmon, pres., Monument St., plans 1 story, brick garage, also 1 story, brick material and creosoting plant for impregnating poles, Morris St. and Belt Ry. tracks. $200,000.

Ind., South Bend — THEATRE — J. Hendelsman, 363 Oliver Annex, had plans prepared by Vitzthum & Co., 605 North Michigan Ave., Chicago, Ill., 8 story 120 x 260 ft., brick, steel and rein.-con., 2,000 seating capacity, Michigan and Colfax Sts. $1,000,000. Orpheum Circuit Motion Picture Co., 220-22 North Michigan St., lessee.

Ind., South Bend — THEATRE — Natl. Theaters Co., having plans prepared by R. B. Williamson, 405 Bway., Milwaukee, Wis., 66 x 165 ft., 50 ft. high, 2,000 seating capacity, incl. 2 storerooms, 1115 South Michigan St. $300,000.

Ind., Sunnyside (mail Indianapolis) — HOSPITAL — Bd. Comrs. Marion Co. (Indianapolis) having plans prepared by Harrison & Turnock, 500 Bd. Trade Bldg., Indianapolis, hospital, here. $350,000. H. S. Hatch, supt. Noted Jan. 7.

Mich., Detroit — APARTMENT — M. H. Finkel, archt., 1333 Book Bldg., takes bids about Mar. 15, 6 story and basement, 100 x 150 ft., brick and steel, plain foundation, Euclid Ave., for J. Polsky, c/o architect.

Mich., Detroit—GARAGE—Vinton Co., 12-225 General Motors Bldg., Detroit had plans prepared by Wiedmaier & Gay 51 Campau Bldg., 2 story and part basement, 100 x 140 ft., rein.-con. and brick, plain foundation, Dexter Blvd. and Rochester Ave. $150,000.

Mich., Detroit—HOTEL and THEATRE—Allen Realty Co., c/o Kohner & Payne, archts., 405 Kresge Bldg., Detroit, having plans prepared 4 story and part basement, 110 x 160, rein.-con. and brick, plain foundation, Schafer Rd. $275,000.

Ill., Chicago—APARTMENT HOTEL—W. Reichert, archt., preparing plans and takes bids in April or May, 17 story, brick and terra cotta, South Lake Shore Dr. near 55th St., for Flamingo Hotel Corp., c/o architects. $2,000,000.

Ill., Chicago — BANK — Calumet Natl. Bank, 9117 Commercial St., having plans prepared by J. Eberson, 212 East Superior St., bank building on 125 x 135 ft. site, 91st St. and Commercial Ave. $1,000,000.

Ill., Chicago — CLUB — Michaelsen & Rognstod, archts., 3815 West Congress St., takes bids about Apr. 1, 12 story and basement, 137 x 158 ft., brick and terra cotta, Madison St. and Hamlin Ave., for Mid-West Athletic Club, F. A. Alden, pres., 4004 West Madison St. $2,500,000. Noted Oct. 22.

Wis., Milwaukee — HOTEL — Schroeder Hotel Co., 86 Michigan St., having preliminary plans prepared by Holabird & Roche, 104 South Michigan Blvd., Chicago, Ill., 17 story and basement, 150 x 200 ft., brick and steel or brick and concrete, Grand Ave. and 5th St. $4,000,000.

Wis., Milwaukee—SERVICE—Mack International Truck Co., 419 Prospect Ave., had plans prepared by S. S. Joy, 2001 West Pershing Rd., Chicago, Ill., 1 story, 192 x 425 ft., brick and steel, plain foundation, Highbury Place and Blue Mound Rd. $325,000.

Wis., Portage — THEATRE — Fischer Paramount Theatres, Inc., 36 State St., Chicago, Ill., plans 2 story, rein.-con., brick and steel, plain foundation, here. $150,000. Engineer and architect not selected.

Wis., Richland Center—HOTEL—G. A. Joachim, c/o Park Hotel, having plans prepared by A. S. Conover, Tenney Bldg., Madison, 4 story and basement, 60 x 150 ft., brick, rein.-con. and steel, plain foundation.

Wis., Winnebago—ASYLUM—State Bd. Control, A. W. Bagley, secy., State Capitol, Madison, having plans prepared by A. Peabody, Madison, 1 story and basement, 50 x 125 ft., rein.-con., brick and steel, plain foundation. $150,000.

Ia., Cedar Rapids — WAREHOUSE and OFFICE — Three-Minute Cereals Co., J. C. Reid, pres. and genl. mgr., making plans 4 story and basement, rein.-con. and brick warehouse and office building. $150,000. Engineer and architect not available.

Ia., Des Moines—EXPOSITION—G. E. Hamilton, convention secy. Chamber Commerce, plans large municipal exposition building on Des Moines River, for City. $2,000,000-$3,000,000.

Minn., Rochester — CITY HALL and COMMUNITY CENTER — A. F. Wright, city clk., plans 3 story and basement, rein.-con. and brick city hall and community center, here. $200,000. Engineer and architect not announced.

Neb., Omaha — MERCANTILE — W. H. Schmoller, 1512 Dodge St., making preliminary plans 6 story and basement, brick and fireproof, 1517 Douglas St. $300,000. Engineer and architect not selected.

Buildings—Commercial (Continued)

Mo., Kansas City—BANK and OFFICE—City Bank, 1801 Grand Ave., having plans prepared by Holden, Ferris & Barnes, 1020 Pioneer Trust Bldg., 7 story (ultimately 12 story) and basement, 85 x 115 ft., rein.-con. and brick, 18th St. and Grand Ave. $600,000. Noted Aug. 20.

Mo., Sedalia — MASONIC TEMPLE — Masonic Temple Assn., E. J. Evans, secy., making preliminary plans 2 and 3 story and basement, brick, concrete and stone temple. $200,000. Engineer and architect not selected.

Mo., St. Louis — COMMERCIAL — Von Hoffman Realty & Investment Co.,: 109 South 9th St., soon takes bids 7 story and basement, 127 x 145 ft., rein.-con., brick and steel, 9th and Spruce Sts. $250,000. E. Preisler, Title Guaranty Bldg., archts.

Ark., El Dorado—BANK and OFFICE—Exchange Realty Co., Exch. Bank Bldg., takes bids about Apr. 1, 10 story, 100 x 100 ft., rein.-con., brick, steel and stone, Washington and Oak Sts. Mann & Stern, 705 A. O. U. W. Bldg., Little Rock, archts.

Ark., El Dorado—COURT HOUSE and JAIL—Union Co. soon takes bids 4 story, rein.-con. and stone court house and jail. $325,000. Mann & Stern, 708 A. O. U. W. Bldg., Little Rock, archts. Noted Jan. 14.

Tex., Corpus Christi—HOTEL—Nueces Hotel Co. having plans prepared by A. B. and R. M. Ayres, c/o Bedell Bldg., San Antonio, 6 story, part basement, rein.-con., brick and stone addition, plain foundation, also constructing engine room. $300,000.

Tex., Corpus Christi—OFFICE—H. C. Wood & associates, c/o Travis Bldg., San Antonio, having plans prepared by Kelwood Co., engrs. and archts., Travis Bldg., San Antonio, 7 story and basement, 50 x 100 ft., rein.-con., brick and stone office, here. $225,000.

Tex., San Antonio—CLUB, HOTEL and THEATRE — San Antonio Turn Verein Club, A. Von Jess, secy., purchased site and having plans prepared by L. Harrington & Co., c/o Builders Exch. Bldg., 10 story, 80 x 120 ft. hotel, 4 story basement, and roof garden club, rein.-con., brick and tile, plain foundation. Houston & Nacogdoches Sts. $1,500,000. Noted Jan. 1.

Tex., San Antonio—HOTEL—St. Anthony Hotel (W. N. Robinson, owner), having plans prepared by A. B. & R. M. Ayres, Bedell Bldg., 12 story, 118 x 170 ft., rein.-con., brick and stone, plain foundation, Travis and Navarro Sts. $1,600,000.

Okla., Enid—HOTEL—M. C. Garber had plans prepared 6 story and basement, 50 x 140 ft., rein.-con. and brick addition, plain foundation, Randolph St. $150,000. Engineer and architect not announced.

Okla., Poteau — COURT HOUSE — Le Flore Co. having plans prepared by C. Wheeler, 201 Merchants Natl. Bank Bldg., Ft. Smith, Ark., 2 story and basement court house, Main St. $175,000.

Okla., Tulsa—CIVIC—Chamber of Commerce, c/o A. L. Farmer, chn. building comn., had plans prepared by Rush, Endicott & Rush, 404 New Wright Bldg., and soon takes bids 7 story and basement, 63 x 130 ft., rein.-con., brick, steel and stone, plain foundation, 5th and Cincinnati Sts. $150,000. Noted Dec. 31.

Okla., Tulsa—OFFICE—Tulsa Building & Loan Assn., 4 East 5th St., had plans prepared by Rush, Endicott & Rush, New Wright Bldg., and soon takes bids 9 story and basement, 50 x 100 ft., rein.-con. and brick, 4th and Boston Sts. $250,000. Noted Nov. 26.

Okla., Weatherford—CITY HALL—City having preliminary plans prepared by J. C. Fisher, Weatherford, 2 story and basement, 125 x 140 ft., brick community house and city hall, Custer St. $150,000.

Wash., Seattle—APARTMENT—Stephen, Stephen & Brust, archts., Thompson Bldg., soon lets contract 3 story, 85 x 195 ft., concrete and brick, North 53rd St. and Phinney Ave., for Bjornstad & Berg, 507 North 63rd St. $190,000.

Wash., Seattle — OFFICE — L. Svarz, archt., Bond Bldg., takes bids about Mar. 23, 6 story and basement, 110 x 120 ft., rein.-con., terra cotta and marble, 5th and Pike Sts., for Camplon Investment Co., Bond Bldg. $350,000.

Ore., Astoria—HOSPITAL—Sisters of Charity purchased site and plan hospital on same. $250,000.

Calif., Fresno—APARTMENT-HOTEL—Syndicate, c/o A. Braverman, mgr., Griffith-McKenzie Bldg., plans fireproof, Orchard Hill Tract. $500,000.

Calif., Los Angeles—APARTMENT—H. Greenbaum, (representing owner), c/o R. D. King, archt., Van Nuys Bldg., had plans prepared 5 story and basement, 80 x 140 ft., rein.-con., McCadden Pl. $175,000.

Calif., Los Angeles — APARTMENT — W. G. McCarty, c/o Walker & Eisen, archts., Great Republic Bldg., had plans prepared 8 story and basement, rein.-con., brick and steel, Wilshire Blvd. To exceed $750,000.

Calif., Los Angeles—APARTMENT—G. Wurzinger, c/o W. Bruce, archts., 4221 South Bway., having plans prepared 5 story and basement, brick, South Grand Ave.

Calif., Marysville—THEATRE—Golden State Theatre Corp., 86 Golden Gate Ave., San Francisco, having plans prepared by A. H. Lamb, Plaza Bldg., theatre, 1,700 seating capacity, here. $250,000.

Calif., Sacramento—THEATRE—Hippodrome Theatre, (Golden State Theatre Corp., 86 Golden Gate Ave., San Francisco), having plans prepared by A. H. Lamb, Plaza Bldg., reconstructing and additions to theatre, K St., here. $150,000.

Calif., San Francisco — ARCADE and OFFICE—F. W. Leis, 105 Montgomery St., having sketches made by A. L. Worswick, 700 Octavia St., 12 story and basement, arcade and office building, near Market and Fulton Sts. $1,000,000.

Calif., San Francisco—STORE and LOFT—San Francisco Realty Co., c/o J. H. Hjul, engr., 128 Russ St., having plans prepared 4 story, rein.-con., Mission St. near 7th St. $150,000.

Calif., Stockton—EXCHANGE and OFFICE—Pacific Telegraph & Telephone Co., Telephone Bldg., San Francisco, having plans prepared by E. V. Cobby, 444 Bush St., San Francisco, 100 x 100 ft., steel and rein.-con., Lindsay and San Joaquin Sts., here. $1,500,000.

Ont., Thistletown—HOSPITAL—Hospital for Sick Children, 67 College St., Toronto, plans 2 or 3 story and basement, rein.-con., brick and steel, plain foundation, here. $500,000. Engineer and architect not selected.

Ont., Toronto—APARTMENT—Bloor St. George Realty Co., 357 Bay St., Toronto, had plans prepared by Marani & Paisley, archts., 35 Colborne St., 4 story and basement, rein.-con., brick and steel, plain foundation, Bloor St. $750,000.

Ont., Toronto — HOSPITAL — University of Toronto, Queens Park, plans 3 or 4 story, rein.-con., brick and steel, plain foundation, College St. $250,000. Engineer and architect not selected.

Sask., Regina—HOTEL—Canadian Pacific Ry., 230 St. James St., Montreal, Que., having plans prepared by Ross & MacDonald, 1 Belmont St., Montreal, Que., hotel, here. $700,000.

Bids Desired

Mass., Amherst — THEATRE — Lauder Bros., Federal St., Greenfield, taking bids 2 story and basement, brick and steel, Amity and Pleasant Sts., here. $150,000. Silverman, Brown & Heenan, 51 Cornhill St., Boston, archts. Noted Mar. 4.

Mass., Cambridge (Boston P. O.) — APARTMENT — See "Contracts Awarded."

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York—HOTEL—See "Contracts Awarded."

Pa., Phila.—STORE—Mar. 16, by Ritter & Shay, archts., Packard Bldg., 10 story and basement, 23 x 200 ft., rein.-con., brick and steel, plain foundation, 929 Market St., for H. C. Kahn & Son, 11th and Filbert Sts. $500,000.

Md., Sykesville—HOSPITAL—Mar. 22, by H. P. Hopkins and A. Burton, archts., 347 North Charles St., 2 story, 40 x 90 ft. men and women's buildings, plain foundations, for Springfield State Hospital. $150,000.

Ala., Fairfield—CITY HALL—Mar. 20, by City Clerk, 2 story, 150 x 200 ft. city hall, Main St. $150,000. Warren, Knight & Davis, Empire Bldg., Birmingham, archts.

Ala., Mobile—WAREHOUSE—Mar. 31, by Alabama State Docks Comn., W. T. Sibert, chn., State Office Bldg., cotton warehouse, 900 ft. long, 230 ft. wide; adv. E. N.-R. Mar. 11.

O., Cleveland—COMERCIAL and HOTEL—N. Petti, archt., Williamson Bldg., taking bids 5 story and basement, 72 x 82 x 98 ft., brick, steel and concrete, 6024 Euclid St., for J. Babin, 9709 Euclid Ave. $300,000. A. G. Simon, Hippodrome Bldg., engr.

O., Cleveland — TEMPLE — Brooklyn Masonic Temple Co., c/o G. Orr, Rose Building, taking bids 5 story and basement, brick, steel and concrete, West 25th St. $300,000. D. H. Farnam, The Arcade, archt.

Mich., Belle Isle (mail Tobins Harbor)—CLUB HOUSE—C. Kotting, archt., 2306 Dime Bank Bldg., Detroit, taking bids 2 story, rein.-con. and brick addition, plain foundation, incl. swimming pool, etc., here, for Detroit Boat Club, 714 Union Trust Bldg., Detroit. $150,000.

Mich., Highland Park (br. Detroit) — EXCHANGE—Mar. 18, by Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., Detroit, 2 story and basement, 100 x 146 ft., rein.-con., brick and steel, plain foundation known as Longfellow Office, Highland Ave., here, for Michigan Bell Telephone Co., Cass Ave., Detroit. $150,000.

Mich., Marquette—BANK and OFFICE—Mar. 15, by First Natl. Bank & Trust Co., and Mowbray & Uffinger, archts., 221 West 57th St., New York City, 2 story and basement, 67 x 100 ft., rein.-con. and brick, plain foundation. $200,000.

Ill., Chicago—APARTMENT—Guske & Foster, archts., 750 North Michigan Ave., taking bids 18 story and basement, 100 x 107 ft., rein.-con., brick and stone, 244 Pearson St., for P. M. Gordon, 3167 Pine Grove Ave. $2,450,000.

Ill., Chicago—HOSPITAL—Mar. 29, by H. A. Zender, supt. Pub. Serv. Room 519, County Bldg., Childrens Hospital, 8 story and basement, 48 x 237 ft. with 47 x 75 ft. wing; Mens Ward, 7 story and basement, 47 x 237 ft., also tunnels to connect; Morgue, 3 story and basement, 107 x 134 ft., T shaped; and Receiving Building, 3 story and basement, 170 x 172 ft., H shaped, all concrete and brick, Harrison, Wood, Polk and Lincoln Sts., for Cook Co. $2,500,000. Hall, Lawrence, Rippel & Ratcliffe, 123 West Madison St., archts. Noted Nov. 12.

Ill., Geneva — HOTEL — O. Nelson, 520 Franklin St., taking bids 4 story and basement, 100 x 150 ft., rein.-con., brick and stone, 3rd and State Sts. $200,000. Mundie & Jensen, 39 South La Salle St., Chicago, archts. Noted Dec. 24.

Ill., Glen Ellyn — MASONIC LODGE — Mar. 15, by E. M. Behrns, archt., 605 North Michigan Ave., Chicago, 2 story and basement, 125 x 220 ft., brick and stone, here, for Glen Ellyn Lodge 950 A. F. and A. M. $160,000. Noted Oct. 8.

Wis., Baraboo—HOTEL—Warren Hotel Co., c/o L. H. Hill, pres., taking bids 4 story and basement, 50 x 75 ft., rein.-con., brick and steel, plain foundation. O. J. and R. E. Sorenson, 212 Main St., La Crosse, archts. Noted Mar. 4.

Ia., Davenport—SANITARIUM—Mar. 16, (extended date), by F. Moses, secy., Masonic Grand Lodge of Iowa, F. Moses, secy., 3 story and basement, 38 x 165 ft. and 44 x 101 ft., rein.-con. and brick addition, plain foundation. $150,000. Beuttler & Arnold, 407 Grain Exch. Bldg., Sioux City, archts. and engrs. E. G. Holbrook, 224 Rusholm St., associated archt. Noted Feb. 18.

Mo., Kansas City — HOTEL and THEATRE—See "Contracts Awarded."

Mo., St. Louis — APARTMENT — S. A. Armstrong, c/o Windermere Hotel, taking bids 4 story and basement, 65 ft. x 157 ft., rein.-con., brick and stone apartment and branch post office, 5727 and 5729 Delmar Blvd. $240,000. H. M. Garriott, 1157 Consolidated Bldg., Indianapolis, Ind., engr. O. J. Krieg, Arcade Bldg., archt.

Okla., Arapaho — COURT HOUSE and JAIL—Mar. 22, by Clerk Custer Co., 3 story and basement, 88 x 116 ft., rein.-con., brick and stone, Main St. $150,000. Sorey & Vahlberg, Baniff Bldg., Oklahoma City, archts.

Calif., Pasadena — WAREHOUSE and GARAGE — See "Contracts Awarded."

Calif., San Francisco—BANK and OFFICE—Miller & Pflueger, archts., Lick Bldg., taking bids 3 stroy, rein.-con., 22nd and Mission Sts., for Mercantile Trust Co., 464 California St. $150,000 or more. W. L. Huber, 1st Natl. Bank Bldg., engr. Noted Jan. 7.

Bids Received

Wis., Kenosha—CLUBHOUSE—Lindl & Schutte, archts., 82 Wisconsin St., Milwaukee, 3 story and basement, 84 x 134 ft., brick and concrete, Congress St., from Immel Constr. Co., Dana Bldg., Fond du Lac, for Kenosha Lodge No. 286, L. O. O. M., 163 Main St. $207,000. Noted Feb. 11.

Calif., Berkeley—APARTMENT—T. W. Corder, Inc., c/o J. W. Plachek, archt., Mercantile Bank Bldg., Berkeley, general contract 3 story, rein.-con., Shattuck Ave., from C. H. McCullough, 1634 Berkeley Way, $185,940. Noted Dec. 3.

Contracts Awarded

Mass., Cambridge (Boston P. O.) — APARTMENT — R. Allen, c/o Silverman, Brown & Heenan, archts., 51 Cornhill St., Boston ,will build 4 story and basement, 150 x 150 ft., brick and steel, Irving St., by day labor. $350,000.

Conn., Bridgeport — GARAGE — Mack Motor Co., 673 Connecticut Ave., 1 story, 175 x 196 ft., brick and steel, Ash Creek, to W. R. Muirhead & Son, 948 Main St. Archts. est. $150,000. Noted Jan. 28.

Conn., New Haven—AUDITORIUM and STORE—H. W. Walker, 1225 Seaview Ave., Bridgeport, 1 and 3 story, 150 x 270 ft. and 100 x 220 ft., rein.-con., brick and steel, State and Grove Sts., to Sullivan & McKeown, 937 Dixwell Ave. Archts. est. $500,000.

Buildings—Commercial (Continued)

N. Y., Jamaica—HOSPITAL—Mary Immaculate, 10 story, brick, steel and stone, plain foundation, Shelton Ave., to T. O'Reilly & Son, 415 Lexington Ave. Archts. est. $1,250,000. Noted Feb. 21, 1924.

N. Y., New York — APARTMENT — Arthur Holding Corp., c/o Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., will build 5 story, brick, steel and stone, plain foundation, Prospect Ave., by day labor. $300,000.

N. Y., New York—EXCHANGE—New York Telephone Co., 15 Dey St., rein.-con., brick and stone, plain foundation, Thayer St., to Gillies-Campbell Co., 101 Park Ave. Archts. est. $500,000.

N. Y., New York—HOTEL—S. Jacobs, 730 5th Ave., 28 story, brick, steel and stone, plain foundation, 59th St. and 5th Ave., to Schroeder & Koppel, Inc., 347 Madison Ave. $3,000,000.

N. Y., New York—HOTEL—One Hundred Fifty West 58th St. Corp., J. H. Hickey, pres., 43 Exchange Pl., brick, steel and stone, plain foundation, 148 West 50th St., to J. Lowry, Inc., 270 Madison Ave. Archts. est. $275,000.

N. Y., New York — HOTEL — Milnate Realty Co., c/o H. I. Feldman, engr. and archt., 516 5th Ave., will build brick, steel and stone, plain foundation, West 48th St., by day labor. $1,250,000.

N. Y., New York—HOTEL—Manger Hotel, Inc., 7th Ave. and 38th St., 20 story, brick, steel and stone addition, plain foundation, 7th Ave. between 50th and 51st Sts., to Bing & Bing, Inc., 119 West 40th St., New York City.

Pa., Bala-Cynwyd — THEATRE — Bala Theatre Co., c/o Hodgens & Hill, archts., 120 South 15th St., Phila., 2 story and basement, 60 x 202 ft., brick and steel, plain foundation, here, to N. Allarelli Co., 1437 South 8th St., Phila. Archts. est. $150,000.

Pa., McKeesport—STORE—Famous Department Stores, general contract 5 story and basement, 38 x 140 ft., brick and steel addition, Market St., to Blair & Mack, 1032 Mary St. Archts. est. $150,000.

Pa., Phila.—APARTMENT—Lindley Ave. Apartment Corp., c/o J. E. Fieldstein, archt., Otis Bldg., 4 story and basement, 65 x 308 ft., brick and steel, plain foundation, 13th St. and Lindley Ave., to S. Yellen, 222 North 11th St. Archts. est. $500,000.

D. C., Wash. — BANK and OFFICE — Coolidge, Shepley, Bulfinch & Abbott, archts., 122 Ames Bldg., Boston, Mass., bank and office building, 15th and New York Aves., here, to Boyle Robertson Constr. Co., 813 15th St. N. W., for City Central Corp. of Boston. Archts. est. $2,000,000. Noted Feb. 4.

N. C., Charlotte—THEATRE—J. H. Cutter, 2 story, brick and stone, to J. A. Jones Constr. Co., Realty Bldg., $300,000 upwards. Famous Players Lasky Corp., 485 5th Ave., New York City, lessee.

Fla., Ft. Lauderdale — HOTEL and APARTMENT — Chateau Park Corp., Miami, 3 story, 238 x 239 x 337 ft., rein.-con., Michigan Ave., Chateau Blvd. and Bordeaux Ave., to C. F. McKenzie Co., 123 Northeast 3rd Ave., Miami, $500,000.

Fla., Ft. Lauderdale—HOTEL—Croissant Hotel Syndicate, 3 story, rein.-con. and tile, on 300 x 500 ft. site, to LeCuto Constr. Co., Ft. Lauderdale, approximately $350,000.

Fla., Homestead—HOTEL—Palms Hotel, Inc., J. S. Harris, Jr., vice pres., Dixie Pines Hotel, steel and rein.-con., to J. B. McCrary, Wayne Bldg., Miami, and Citizens & Savings Bank Bldg., Atlanta, Ga., $376,000.

Fla., Pensacola — HOTEL — E. Weil, archt., Whitney Bldg., New Orleans, La., 7 story, fireproof addition to San Carlos Hotel, here, to A. Blair, 11 South Lawrence St., Montgomery, Ala. Archts. est. $1,000,000. Noted Dec. 17.

Fla., Tampa—OFFICE—Peninsular Telephone Co., Zack and Morgan Sts., 12 story, 50 x 100 ft., brick, steel and rein.-con., Marion and Zack Sts., to G. A. Miller, 28 Petteway Bldg., $450,000. Noted Feb. 4.

O., Cleveland—APARTMENT HOTEL—Park Hall Co., c/o A. N. Weltman, 3320 Ormond Rd., 6 story and basement, 88 x 255 ft., rein.-con., brick and steel, Ansel Rd., to N. Weltman, 3320 Ormond Rd., Cleveland Heights. Archts. est. $600,000.

O., Cleveland — COMMERCIAL and APARTMENT—One Hundred and Thirtieth Buckeye Co., c/o W. Rosensweig, Society for Savings Bldg., 3 story and basement, 67 x 140 ft., brick, 130th St. and Buckeye Rd., to J. Miller, 10819 Drexel Ave. Archts. est. $175,000. Noted Mar. 4.

O., Cleveland—COTTAGE—State, J. E. Harper, dir. Pub. Welfare, 9th and Oak Sts., Columbus, 2 story and basement, 102 x 140 ft., brick, steel and concrete, Hawthornden Farm, here, to V. W. Surber, 109 North Union St., Akron. Archts. est. $165,000. Noted Feb. 25.

O., Cleveland—DEPOT—H. D. Jonett, engr., Ulmer Bldg., superstructure for Center Tower, 52 story and basement, 98 x 98 ft., concrete, steel and terra cotta, Public Sq., to J. Gill & Sons, Bulkley Bldg., for Cleveland Union Terminal Co., Marshall Bldg. Archts. total est. $8,000,000. Noted Jan. 7.

Mich., Detroit — HOTEL — Detroit Hotel Co., 20 story and basement, 140 x 200 ft., brick, concrete and steel, Bagley and Cass Aves., to Lundoff Bicknell Co., B. F. Keith Bldg., Cleveland, O. Archts. est. $3,500,000.

Ill., Chicago—APARTMENT—Lindbald & Carson, archts., 155 North Clark St., masonry contract 3 story, 125 x 150 ft., brick, 81st St. and Ingleside Ave., to Vagtborg Constr. Co., 351 West 79th St., for C. J. Carlson, 7916 Laflin St. Noted Jan. 28.

Ill., Chicago — APARTMENT — C. H. Schaefer, general contract 3 story, 92 x 198 ft., brick, Sunnyside and Hermitage Aves., to S. Clifford & Co., 111 West Washington St.; masonry, to J. C. Ragner, 2534 Thorndale Ave. Archts. est. $150,000.

Ill., Chicago — APARTMENT — Loyola Building Corp., H. Emerman, pres., 4750 Sheridan Rd., concrete and masonry contract 8 story, 50 x 94 x 143 x 150 ft., rein.-con. and brick, Loyola Ave. on Lake Michigan, to H. Janisch & Co., 1813 Winona St. Archts. est. $475,000.

Ill., Waukegan — BANK — Alschuler, archt., 28 East Jackson Blvd., Chicago, masonry and carpentry contract 6 story, 63 x 90 ft., bank building, here, to H. D. Moreland Co., 3701 Sheffield Ave., Chicago, for Security Savings & Trust Bank. Noted Jan. 21.

Ill., Evanston — APARTMENT and STORE—P. Finley, 111 Washington St., Chicago, general contract 3 story, 100 x 160 ft., and 4 story, 60 x 160 ft., rein.-con., brick and steel, Main St. and Elmwood Ave., here, to A. Lindstrom, 77 West Washington St., Chicago. Archts. est. $700,000. Noted Feb. 4.

Wis., Green Bay—MERCANTILE—Jorgensen-Blesch Co., 303 North Washington St., 4 story, 112 x 160 ft., brick, concrete and terra cotta addition, plain foundation, to J. W. Nerhood, 225 North Catherine St., Appleton. Archts. est. $150,000.

Neb., Lincoln — STORE — Spier Clothing Co., general contract wrecking old building

VIADUCT—JERSEY CITY, N. J.

Bids were opened by State Highway Department, Trenton, for constructing steel viaduct on Route No. 1, Extension No. 1, from (A) Frederick Snare Corp., 114 Liberty St., New York, (awarded contract); (B) C. T. Kavanagh and George B. Spearin, Bayonne; (C) G. DeKimpe, 30 Church St., New York; (D) Public Service Production Co., 80 Park Pl., Newark; (E) J. Mitchell, Inc., 999 Bergen Ave., Jersey City. The unit bids are as follows:

	A	B	C	D	E
Clearing site and demolishing buildings (lump sum)	$16,000.00	$25,000.00	$25,000.00	$10,060.00	$33,310.00
830 lin.ft. 18 in. vitrified pipe sewer	11.00	4.60	15.00	8.00	6.66
400 lin.ft. 6 in. vitrified pipe sewer	9.00	1.82	6.00	3.80	1.87
240 lin.ft. 20 in. cast iron pipe drain	25.00	12.73	30.00	11.60	10.19
10 making connections to 8 ft. and 6 ft. 6 in. sewer	100.00	100.00	170.00	24.00	53.70
300 lin.ft. protection of steel sewer	60.00	46.00	75.00	53.30	39.94
9 sewer manhole	170.00	135.00	200.00	169.00	161.22
5 street catch basin	270.00	195.00	230.00	175.00	279.40
60 lin.ft. 12 in. water pipe	12.00	8.00	20.00	6.50	7.28
1,450 lin.ft. 6 in. water pipe	5.00	4.00	7.50	3.57	4.22
10 lin.ft. 4 in water pipe	4.00	3.75	10.00	2.68	2.70
400 lin.ft. 1¼ in. house connection pipe	2.70	2.25	2.50	3.40	2.15
2 hydrants	220.00	150.00	300.00	102.00	193.50
20 stopcocks	20.00	12.00	35.00	12.20	6.45
1,350 lin.ft. 4 in. gas pipe	4.00	3.50	3.00	2.55	2.69
20 lin.ft. 2 in. house connection pipe	3.50	2.50	1.50	.77	.80
400 lin.ft. 1½ in. house connection pipe	2.50	1.75	1.00	.51	.54
2 gas drip	60.00	75.00	50.00	51.00	53.50
20 m. b.m. timber left in place	100.00	110.00	85.00	81.50	96.70
16,460 cu.yd. common excavation	7.50	4.85	10.00	5.55	10.22
180 cu.yd. rock excavation	12.00	20.00	20.00	15.50	16.11
8,510 sq.yd. preparing subgrade	.70	.40	.85	.41	.54
150 cu.yd. sand or gravel fill under sewer pipe	3.00	3.00	4.50	5.85	3.11
100 cu.yd. broken stone fill under foundations	4.00	5.00	6.00	5.45	3.65
1,445 cu.yd. approach fill	4.00	2.65	7.00	5.00	5.55
740 cu.yd. arch fill	4.00	2.65	6.00	6.60	5.30
180 cu.yd. fill in surface streets	3.00	1.50	2.60	1.70	1.94
2,160 lin.ft. timber piles under 45 ft.	.70	.90	1.00	.65	.88
75,980 lin.ft. timber piles 45 to 60 ft.	.65	.90	1.00	.71	.81
104,120 lin.ft. timber piles over 60 ft.	.75	.90	1.00	.79	.75
6,150 lin.ft. concrete piles	2.50	3.15	5.00	3.53	6.02
585 lin.ft. 8 ft. caissons	120.00	182.00	172.50	165.45	183.00
177 lin.ft. 10 ft. 6 in. caissons	170.00	255.00	241.00	231.60	247.00
200 cu.yd. rock excavation normal air pressure	35.00	29.00	27.60	26.50	25.70

	A	B	C	D	E
100 cu.yd. rock excavation compressed air	$50.00	$102.00	$96.60	$92.65	$90.26
6,830 cu.yd. class "C" concrete in floor slabs, columns and arches	28.00	31.50	28.00	33.80	31.47
9,750 cu.yd. class "D" concrete in foundations, piers and walls	22.00	22.00	20.50	19.90	22.10
5,040 lin.ft. balustrade (class "A" concrete)	6.00	10.00	8.00	8.82	7.54
56 posts for lighting (class "A" concrete)	100.00	125.00	150.00	153.43	109.00
1,545 cu.yd. concrete protection of steel structure (class "A" concrete)	50.00	80.00	65.90	81.15	66.99
210,000 sq.ft. cement motor protection	.75	.93	.65	.93	.82
11,450 sq.yd. waterproofing	3.50	1.90	1.60	1.90	3.34
1,910 sq.yd. waterproofing of concrete structures (back of walls)	1.00	.50	.50	.50	.58
4,470 ton structural steel	122.00	119.50	120.00	137.00	126.30
355 ton reinforcing rods	110.00	130.00	130.00	220.00	152.56
8 ton wire reinforcing	300.00	245.00	260.00	396.00	530.75
1 ton miscellaneous steel	350.00	320.00	350.00	340.00	269.00
20 ton straight c.i. pipe	170.00	110.00	156.00	142.50	326.70
12 ton special c.i. pipe	220.00	200.00	250.00	237.50	393.25
19 ton miscellaneous iron castings	280.00	210.00	200.00	204.00	174.05
2 ton miscellaneous steel castings	400.00	300.00	300.00	325.00	242.00
300 lin.ft. 4 in. tile drains	.70	.50	.35	.44	.26
15,100 sq.yd. granite block pavement	6.50	7.50	7.00	7.61	6.85
400 lin.ft. granite header	3.50	5.00	3.00	2.45	2.37
3,570 sq.yd. paving streets with present stone blocks	1.80	2.00	2.90	1.72	1.45
1,900 sq.yd. paving streets with recut stone blocks	4.30	3.50	3.00	4.68	2.69
3,500 sq.yd. resetting stone block pavement—adjust old to new pavement	1.80	2.50	2.85	1.45	1.18
3,340 sq.yd. foundation concrete pavement for granite block	4.50	2.70	7.50	3.29	3.76
500 cu.yd. finished surface concrete pavement	5.50	15.00	15.00	17.90	21.73
2,090 sq.yd. concrete sidewalk	3.30	2.75	3.00	2.87	2.71
2,415 lin.ft. concrete curbs (except special)	1.70	1.25	2.00	1.28	1.34
42 cu.yd. special concrete curbs	25.00	30.00	20.00	34.00	25.29
265 lin.ft. resetting curbs	2.00	.50	1.50	1.10	1.08
Lighting system (lump sum)	20,000.00	18,000.00	15,946.20	3,128.00	14,358.00
Engineers office (lump sum)	4,500.00	1,000.00	4,000.00	1,000.00	1,075.00
3,340 lb. bronze	1.20	1.50	1.20	1.31	1.24
1,420 lin.ft. concrete pavement joint filler	.50	.40	.35	.41	.27
7,000 lin.ft. mastic filler for expansion joints	.50	.50	.40	.28	.32
Extended totals	$1,974,833	$2,123,165	$2,155,033	$2,199,014	$2,206,196

Buildings—Commercial (Continued)

and constructing 4 story and basement, 53 x 142 ft., rein.-con. and brick, 10th and O Sts., to Olson Constr. Co., 205 Chapin Bldg., Lincoln, $130,000.

Mo., Kansas City — HOTEL and THEATRE — W. C. Gumm, 3118 Troost Ave., will build 6 story and basement, 45 x 180 x 305 ft., and 128 x 212 ft., rein.-con., brick and terra cotta hotel and theatre. To exceed $150,000. Work will be done by separate contracts.

Mo., St. Louis—AUTO SERVICE—Vesper-Buick Automobile Co., Grand and Lincoln Blvds., 2 story (ultimately 3 story) and basement, 100 x 215 ft., rein.-con. and stucco, Grand Blvd. and Winnebago St., to W. H. Smith-Nelson Cunliff Co., 107 North 7th St. Archts. est. to exceed $150,000. South Side Buick Co., Grand Blvd. and Potomac St., lessee.

Ark., Little Rock—WAREHOUSE—Terminal Warehouse Corp., c/o S. J. Beauchamp, pres., 1910 Summit Ave., 5 story, 142 x 200 ft., rein.-con., brick and steel, Markham St. between Commerce and Sheridan Sts., to W. F. Ault, 2017 Arch St., Little Rock. Archts. est. $500,000. Noted Oct. 29.

Tex., Wichita Falls—HOTEL—L. Morgan, Mineral Wells, remodeling and constructing 2 story, 51 x 150 ft. top addition, here, to Reid & Costley, 520 Staley Bldg., approximately $200,000.

Wash., Aberdeen—OFFICE—A. H. Albertson, archt., Henry Bldg., Seattle, 7 story, 60 x 130 ft., rein.-con., brick and terra cotta, Wishkah and 1st Sts., to Greene Eng. Co., Aberdeen, for F. Becker, Aberdeen. $250,000.

Wash., Zenith — MASONIC HOME — Heath, Gove & Bell, archts., Pacific Savings Bank, Tacoma, 5 story and basement, rein.-con. and steel, here, to Morris Hoard, Inc., Pantages Bldg., Seattle, for Washington State Masonic Home. $441,999. Noted Feb. 25.

Calif., Berkeley—BANK and OFFICE—Mercantile Trust Co., 464 California St., San Francisco, 5 story, brick and rein.-con. annex, Center St. and Shattuck Ave., to W. Sorenson, Scenic and Le Conte Aves., $225,000. Noted May 21, 1925.

Calif., El Centro — HOTEL — Barbara Worth Hotel Co., 6 story and basement, rein.-con. annex, to Lange & Bergstrom, Washington Bldg., Los Angeles, $275,500. Noted Jan. 21.

Calif., Los Angeles—HOTEL—Sun Realty & Investment Co., 742 South Hill St., 13 story and basement, 122 x 150 ft., rein.-con., 7th and Hartford Sts., to Baruch Co., I. W. Hellman Bldg., approximately $1,000,000; steel, to Llewellyn Iron Wks., 1200 North Main St. Noted Jan. 14.

Calif., Los Angeles — STORE and OFFICE — Sun Realty & Investment Co., c/o Curlett & Beelman, archts., Union Bank Bldg., 12 story and basement, 80 x 150 ft., rein.-con., 5th St. and Bway., to McNeil Co., 5860 South Park Ave., approximately $1,000,000. Steel, etc., to Llewellyn Iron Wks., 1200 North Main St.

Calif., Pasadena — WAREHOUSE and GARAGE — Southern California Edison Co., Edison Bldg., Los Angeles, will build 1 story, 85 x 100 ft., rein.-con., vicinity of Logan and Hammond Sts., by day labor. Eng. Dept. of Owners, engrs.

Calif., Sacramento — STORE — O'Brien Bros., 315 Montgomery St., San Francisco, 2 story and basement, rein.-con., J St. between 11th and 12th Sts., to Industrial Constr. Co., 815 Bryant St., San Francisco, $250,000. Noted Feb. 4.

Calif., San Francisco—HOTEL—H. C. Keenan, 110 Sutter St., will build 6 story and basement, brick and steel, Jones St. near Geary St., by day labor. $150,000. H. C. Baumann, 251 Kearny St., archt.

Calif., Santa Monica—CLUB—Breakers Club, Spring Arcade Bldg., 9 story and basement, 125 x 220 ft., rein.-con. and steel, plain foundation, incl. 40 x 105 ft. swimming pool, etc., Marine Terrace and Appian Way, to Fidelity Contr. Co., 709 Hillstreet Bldg., $750,000. Noted Feb. 18.

Sask., Regina—HOTEL—Broders Ltd., 937 Victoria Ave., general contract 4 story and basement, 70 x 175 ft., brick and tile, Rose St., to Poole Constr. Co. Ltd., Regina; plumbing to Vagg-Wilson Co., 1801 Retallack St., $43,000. Archts. total est. $200,000. Noted Jan. 28.

Buildings—Industrial

Proposed Work

N. Y., Buffalo — METALWARE FACTORY—Republic Metalware Co., 80 Tennessee St., plans remodeling factory. $60,000.

N. Y., New York—SERVICE STATION, REPAIR SHOP and GARAGE — Shape, Bready & Peterkin, Inc., engrs. and archts., 50 East 42nd St., preparing plans rein.-con., brick and steel, plain foundation, 337 West 49th St. $700,000. Owner's name withheld.

N. J., Camden—LEATHER FACTORY—Chask Cook Co. having plans prepared by Lackey & Hettel, 5 Hudson Ave., 3 story and basement, brick and steel, plain foundation, 211 South 2nd St. $40,000.

N. J., Glassboro—MACHINE SHOP and FOUNDRY—Advance Machine & Fdry. Co., Glassboro, C. Peterman, pres., 2857 North Palethrop St., Phila., Pa., soon takes bids foundry and machine shop. $70,000.

Pa., Danville—SHIRT FACTORY—H. D. Bob Co., 40 Leonard St., New York City, N. Y. and Minersville, having plans prepared by W. D. Shollenberger, 1522 Scott St., Williamsport, 2 story and basement, 60 x 152 ft. factory, here. $45,000.

Pa., Grove City — DAIRY PLANT — Owner, c/o Brazielt & Anderson, archts., 309 4th Ave., Pittsburgh, having plans prepared 3 story and basement, 75 x 80 ft., rein.-con. dairy plant, here. $225,000.

Pa., Lebanon — SHIRT FACTORY — Phillips Jones Co., Pottsville, having preliminary plans prepared by C. E. Kendrick, Pottsville, 4 story, and basement, approximately 90 x 150 ft. factory, here. $80,000.

Pa., Tarentum — WATER and LIGHT PLANT—City plans improving water and light plant. $225,000. Hudson & Myron, 802 Wabash Bldg., Pittsburgh, engrs.

Md., Baltimore—BAKERY—Ward Baking Co., 362 Southern Blvd., New York City, having revised plans prepared by C. B. Comstock, 110 West 40th St., New York City, 2 story and basement, brick, plain foundation, Pennsylvania R.R. tracks and Lanvale St., here. $300,000. Noted Oct. 8.

Fla., Clearwater — POWER PLANT — Pinellas Power Co., purchased site and plans power plant, Vine St. $50,000.

Ala., Birmingham — MACHINE SHOP — Stewart Machine Co., 1106 1st Ave., C. Stewart, pres., purchased 240 x 400 ft. site and plans new shop, 9th Ave. N. and 28th St. $150,000.

La., Morgan City — PULP MILL and POWER PLANT—Dixie Pulp & Paper Co. having plans prepared by V. D. Simons, engr. and constr. mgr., 431 North Michigan Ave., Chicago, Ill., 125 ton per day paper mill and power plant. $4,000,000. Noted Jan. 21.

La., New Orleans—WAREHOUSE—E. Weil, Inc., archt., Whitney Bldg., preparing plans and soon takes bids three 1 story, rein.-con., brick and stone, pile foundations, on 86 x 319 ft. site, Market, Religious, Richard and St. Thomas Sts., for Woodward Wight & Co., $50,000 each.

Tenn., Cowan — PLANT — Cumberland Portland Cement Co., c/o Davidson, Hicks & Greene, 100 Russell St., Nashville, plans organizing and erecting 2,000 bbl. capacity cement plant, here. To exceed $40,000.

O., Canton—FACTORY—Eberman Steel Co., 1103 18th St. N. W., soon takes bids 1

Buildings—Industrial (Continued)

story, steel factory, Allen Ave. S. E. and Baltimore & Ohio R.R. tracks. $100,000.

O., Cleveland—LAUNDRY and OFFICE—Modern Laundry Co., c/o J. Bauer, pres., 2020 Woodland Ave., having plans prepared by A. A. Hanke, 2906 Euclid Ave., 2 story and basement, 62 x 175 ft., brick and steel, East 55th St. near White Ave. $60,000.

O., Cleveland — FACTORY — Sherman Stores Co., 823 Prospect Ave., having preliminary plans prepared by Christian, Schwarzenberg & Gaeda, engrs. and archts., 1900 Euclid Bldg., 4 story and basement, brick and steel, 3026 Superior Ave. $300,000.

O., Cincinnati—ENGRAVING PLANT—Rudolph Sattler Engraving Co., Walsh Bldg., having plans prepared by Rendings, Panzer & Martin, Southern Ohio Bank Bldg., 3 story and basement, 75 x 150 ft., rein.-con. and brick, plain foundation, McMillin St. $100,000.

O., East Cleveland (Cleveland P. O.) — SALES and SERVICE—Barnes Motor Co., W. P. Barnes, pres., 1938 East 21st St., Cleveland, plans 2 story and basement, brick, steel and concrete, Euclid Ave. and Ivanhoe Rd., here. $150,000. Engineer and architect not selected.

Indiana — OIL REFINERY — Roxana Petroleum Corp., Shell Bldg., 13th and Locust Sts., St. Louis, Mo., plans oil refinery on 450 acre site, partly in Gary and Hammond, here, $5,000,000; also pipe line, etc., from Roxana, Ill., to Hammond, Ind. $7,000,000. Private plans.

Ind., Indianapolis—PLANT—See "Buildings—Commercial."

Ind., Indianapolis — POWER PLANT — Bd. Trustees Indiana State Blind School, having preliminary plans prepared by Harrison & Turnock, 500 Bd. Trade Bldg., rein.-con. and brick power plant. $150,000.

Ind., Indianapolis—PRINTING PLANT—Oval & Koster, 700 West Washington St., had plans prepared by C. Byfield, 923 Peoples Bank Bldg., 4 story, 112 ft. front, rein.-con. and brick printing plant. $45,000.

Mich., Jackson — PRINTING PLANT — Jackson Patriot having plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 3 story and basement, 75 x 130 ft., rein.-con. and brick, plain foundation. $150,000.

Mich., Muskegon — FACTORY — Shaw-Walker Co., 27 Division St., having plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, and takes bids about Mar. 15, 5 story, 80 x 200 ft., rein.-con. and brick, plain foundation, Division St. $250,000.

Ill., Cicero — MOTOR DEVICE FACTORY—Stromberg Motor Devices Co., 58-68 East 25th St., Chicago, having preliminary plans prepared by N. M. Dunning, 304 South Wabash Ave., Chicago, rein.-con., 54th Ave. and 16th St., here. $4,000,000. Leiverman & Hein, 190 North State St., Chicago, engrs.

Wis., Almond — CREAMERY — Almond Creamery Co., W. F. Hintz, secy., having plans prepared by M. J. Mersch, 800 Division St., Stevens Point, 1 story, 50 x 62 ft., rein.-con., brick and steel, plain foundation. $40,000.

Wis., Dodgeville — PLANT — Dodgeville Cheese Federation, F. G. Trooboda, genl. mgr., plans 1 story and basement, 40 x 50 ft., cold storage plant and refrigeration room, rein.-con. and brick, $40,000. Engineer and architect not selected.

Wis., Madison—DAIRY PLANT—J. M. O'Mally, 1 South Pinckney St., plans 2 story, rein.-con. and steel, Livingston St. $40,000. Engineer and architect not selected.

Wis., Milwaukee — FACTORY — C. T. Gross, 3020 State St., having preliminary plans prepared 1 and 2 story, 90 x 110 ft., brick and concrete, plain foundation, Poplar and 4th Sts. $60,000. Private plans.

Wis., Plymouth — HEATING PLANT — Central Steam Heat & Power Co., c/o E. E. Dillon, engr., 316 1st Natl. Bank Bldg., Madison, plans central heating plant and distribution system. $155,000.

Ia., Mashalltown — FACTORY — H. E. Reimer, engr. and archt., Marshalltown, soon lets contract 1 story, 60 x 60 ft., brick and steel factory plain foundation, for Fisher Governor Co. $40,000.

Mo., St. Louis — ICE PLANT — Polar Wave Ice & Fuel Co., 3638 Olive St., purchased site and plans 2 story and basement, 120 x 200 ft. ice plant and distribution station, rein.-con., 9th and Victor Sts. $250,000.

Tex., Amarillo — GASOLINE PLANT — Phillips Petroleum Co., Bartlesville, Okla., plans casinghead gasoline plant, 10,000 gal. daily capacity. $1,000,000. Private plans.

Tex., Breckenridge—ICE PLANT, etc.—Alexander & Dillham, having plans prepared 40 ton capacity ice plant, rein.-con. and brick, also ice pier. $60,000. Withers & Merrell, 104½ Oak St., Mineral Wells, engrs.

Tex., Electra — GASOLINE PLANT — Waggoner Refinery plans new units to plant, and also 2,000 g.p.d. natural gasoline plant. $500,000. Private plans.

Tex., Laredo—PUMPING PLANT, etc.—Texas Central Power Co., c/o S. M. Holden, Frost Bldg., San Antonio, plans improving plant, water mains, water meters, also light plant additions, etc. $1,000,000 bonds voted for same. Private plans.

Tex., Laredo — BAKERY — Wolf & Reuthinger having plans prepared by L. S. Beardsley, 116 West 39th St., New York City, N. Y., 1 story, 66 x 108 ft., rein.-con. and brick, plain foundation, Santa Maria, Lincoln and Iturbids Sts. $80,000.

Tex., Raymondville — COTTON COMPRESS—Aransas Compress Co., Corpus Christi, plans cotton compress, here $60,000. Private plans.

Tex., San Antonio—CANDY FACTORY—G. A. Duerler Mfg. Co., 224 West Commerce St., plans 6 story and basement, 140 x 160 ft., rein.-con., brick and tile, 200 Blk. Herff St. $200,000. Engineer and architect selected soon.

Okla., Collinsville — POWER PLANT — See "Waterworks."

Okla., Duncan — COTTON SPINDLE MILL — C. R. Miller Mfg. Co., 906 Jackson St., Dallas, Tex., having plans prepared 1 story, 250 x 400 ft., rein.-con., brick and steel, plain foundation, here. $250,000. Engineer and architect not selected.

Okla., Keefeton—BRICK PLANT—La Dow Brick Co. making preliminary plans brick plant. $40,000. Private plans.

Calif., Crescent City—SAW MILL—Bee-H-Ess Milling Co., G. W. Howe, atty., plans 5,000 to 10,000 ft. capacity per day mill.

Calif., Pinole — MILLS — California Woolen Mills, Pacific Bldg., San Francisco, making preliminary plans woolen mills, here. To exceed $40,000.

Calif., San Francisco—FACTORY—Illinois-Pacific Glass Co., 15th and Folsom Sts., having plans prepared 6 story, 193 x 256 ft., concrete, Folsom St. $600,000. A. Toriggino, Mills Bldg., engr.

Calif., San Francisco — FACTORY and WAREHOUSE — J. A. Roebling & Sons Co., 646 Folsom St., having new plans prepared 2 story, concrete and steel, De Haro, Carolina, 16th and 17th Sts. $200,000. Eng. Dept. of Owners, engrs. Noted Aug. 20.

Calif., Santa Monica—FACTORY—Symphonaer Organ Co., 504 Wilshire Blvd., had sketches made by C. F. Winder, pres., organ factory, Pico Blvd. $1,000,000. Noted Mar. 4.

Ont., Guelph—FACTORY—A. Rae, Yarmouth St., plans remodeling factory. $50,000.

STREET IMPROVEMENT—CHICAGO, ILL.

Bids were opened by Board of Local Improvements, City Hall, for South Water Street Improvement, Sect. No. 9, sub and superstructure, from east line of State St. to west line of Wabash Ave., (A) Mid-Continent Construction Co., 6 North Michigan Ave., (awarded contract); (B) M. E. White Co., 1735 Fulton St.; (C) Underground Construction Co., 130 North Wells St. The unit bids are as follows:

	A	B	C
Complete electric conduit system (lump sum)	$18,000.00	$29,040.00	$17,000.00
Cast iron wheel guards (lump sum)	4,750.00	8,265.00	9,263.00
610 cu.yd. 1:4½ concrete in columns and column caps	20.00	26.40	33.00
4,950 cu.yd. 1:6 concrete in viaduct slab, etc.	15.00	21.05	22.00
58 cu.yd. 1:6 concrete in stairs and stair walls	25.00	23.00	40.00
50 cu.yd. 1:6 concrete in column casings, river front	27.50	35.30	36.00
375,000 lb. reinforcing steel in columns and column caps	.04½	.04½	.05½
935,000 lb. reinforcing steel in viaduct slab, etc.	.04¼	.04½	.05
3,700 lb. reinforcing steel in stairs and stair walls	.05	.04½	.05
28,500 lb. steel in expansion plates, angles and curb plates	.10	.09½	.10
3,850 sq.yd. membrane waterproofing	1.00	1.25	1.25
23,000 sq.ft. wearing surface on sidewalks, etc.	.09½	.11	.11
1,000 sq.ft. sidewalk lights	3.50	3.50	3.60
45,200 lb. steel in column protection plates	.10	.10½	.12
14,600 lb. miscellaneous iron not included in other items in viaduct structure	.15	.12	.13
4,500 sq.ft. rubbed finish	.12	.12	.15
500 lin.ft. wooden railing left in place	.50	.75	1.50
16 cast iron inlets complete	75.00	75.00	40.00
500 lin.ft. 6 in. cast iron downspout	4.00	4.00	4.10
250 lin.ft. safety treads	2.50	1.45	1.50
7,300 cu.ft. hollow tile masonry	.50	.57	.50
29,000 cu.yd. general steam shovel excavation	1.35	1.69	1.35
3,000 cu.yd. general hand excavation	4.50	5.51	5.50
800 sq.yd. vaulted sidewalks, broken up, removed and disposed of	1.35	1.41	1.50
450 sq.yd. stone flagging, broken up, removed and disposed of	1.10	1.12	1.00
500 cu.yd. reinforced concrete masonry, broken up, etc., when done by steam shovel	10.00	3.95	5.50
450 cu.yd. reinforced concrete masonry, broken up, etc., by hand	20.00	16.87	10.00
1,800 cu.yd. plain concrete masonry, etc., broken up, etc., by steam shovel	10.00	2.81	4.00
50 cu.yd. plain concrete masonry, etc., broken up, etc., by hand	20.00	13.50	8.00
275 lin.ft. dock construction removed, etc.	19.00	22.10	21.50
365,000 lb. steel or iron in cast bases or grillages, removed, etc.	.01¼	.02¼	.01¾
400 piles (not to be used) cut off	2.35	2.35	3.00
300 cu.yd. additional dredging	5.00	.88	3.00

	A	B	C
900 cu.yd. general filling	$3 00	$1 75	$1 50
2 test loads in bottom of cylindrical pier shaft	500 00	500 00	500 00
76,000 cu.ft. 1:6 concrete in cylindrical piers	1 05	1 24	1 30
24,500 cu.ft. 1:7½ concrete in cylindrical piers	1 03	1 23	1 30
0 cu.ft. concrete placed in piers under air (additional price)	6 00	7 00	10 00
1,000 cu.ft. solid masonry, etc., removed from piers	5 00	1 15	1 50
495 cu.yd. 1:6 concrete in foundation girders, etc	12 50	14 75	17 00
475 cu.yd. 1:6 concrete in dock wall proper	18 00	15 75	21 00
275 cu.yd. 1:6 concrete in vent ducts	22 50	23 50	27 00
4,250 sq.ft. 1 in. wearing surface on dock wall and vent ducts	10	12½	15
300 sq.ft. ¾ in. wearing surface on steps to vent ducts, etc	10	11	11
4 test piles	125 00	120 00	137 00
7,900 lin.ft. piles, delivered at site and accepted	33	32	37
7,800 lin.ft. piles, driven in dock	43	47	45
60 existing piles to be used in dock	27 50	28 00	25 00
89 m. ft. b.m. untreated timber and lumber in sheet piling and stringers	125 00	148 50	145 00
7 m. ft. b.m. oak fender for dock	200 00	185 00	180 00
1 5 m. ft. b.m. oak bumper for loading platform	200 00	190 00	250 00
220,000 lb. reinforced steel in cylindrical piers	05	05	05½
98,000 lb. reinforced steel not included in other items	04½	04½	05
48,000 lb. miscellaneous iron work in dock construction	09½	10¾	11
13,500 lb. miscellaneous iron (railings, curb plates, etc.)	20	24	18
52 lin.ft. safety treads	2 00	1 45	1 50
88 sq.yd. 8 in. concrete pavement foundation	2 50	2 50	2 50
850 sq.yd. reinforced concrete pavement (dock floor)	5 50	5 25	6 00
1,750 sq.yd. plain concrete pavement	4 00	4 25	5 20
3,750 sq.yd. 4 in. asphalt pavement, no foundation	2 90	3 25	3 70
5,530 sq.yd. 5 in. granite block pavement (ordinary blocks)	6 75	7 00	7 60
375 sq.yd. 5 in. granite block pavement (smooth blocks)	7 50	7 50	8 50
0 sq.yd. temporary granite block pavement	5 00	2 50	3 00
2,500 lb. reinforced steel in pavement foundation	05	04¾	07
1,200 sq.ft. sidewalks laid on the ground	34	38	35
30 lin.ft. integral curb for sidewalks on ground	2 00	1 50	2 00
5 new sewer manholes complete	100 00	106 00	135 00
14 new catchbasins complete	100 00	118 00	135 00
180 lin.ft. 8 in. tile pipe sewer	2 65	2 50	3 00
240 lin.ft. 12 in. tile pipe sewer	5 25	4 25	4 80
575 lin.ft. 15 in. tile pipe sewer	4 25	5 50	5 40
650 lin.ft. 8 in. cast iron pipe sewer	4 75	4 00	8 00
Extended totals	$547,131	$619,043	$638,300

Buildings—Industrial (Continued)

Ont., Hamilton — SHEET METAL PLANT—J. E. Riddell & Sons, 20 Ferguson Ave., plans rebuilding sheet metal works, recently destroyed by fire. $50,000.

Ont., Hamilton—GALVANIZING PLANT—Steel Company of Canada plans galvanizing plant. $300,000. Private plans.

Mass., Gardner — FACTORY — Amer. Fibre Co., Coleman St., taking bids 2 story, brick addition. $45,000. H. A. Foster, 15 Oliver St., Fitchburg, archt.

Pa., Phila.—MILL—Mar. 13, by E. A. Wightman, archt., Bankers Trust Bldg., 2 story and basement, 100 x 100 ft., rein.-con. and brick, plain foundation, A and Courtland Sts., for Concordia Silk Hosiery Co., Fishers and Wyoming Aves. $60,000. Noted Mar. 4.

Ill., Highland Park — ICE PLANT — Highland Park Ice Co., 5538 Lake Park Blvd., taking bids 1 story, 76 x 150 ft., brick, plain foundation. $40,000. C. F. Ringer & Son, 432 Bway., Milwaukee, Wis., archts.

Tex., Cleburne—SHOPS—Gulf, Colorado & Santa Fe Ry. Co., F. Merrit, ch. engr., 408 Union Depot Bldg., Galveston, taking bids 122 x 155 x 517 ft. boiler house and blacksmith shop, also 1 story 45 x 228 ft. shop, both steel and metal sash. $300,000. W. J. Smith, 408 Union Depot Bldg., Galveston, archt. Noted Jan. 28.

Okla., Muskogee — COTTON GIN and SEED HOUSE—See "Contracts Awarded."

Calif., Los Angeles—CREAMERY—See "Contracts Awarded."

Contracts Awarded

Conn., New Britain—PLANT—North & Judd Mfg. Co., East Main St., rebuilding brick and steel annealing building, which recently collapsed, to W. H. Allen & Co., Inc., Hungerford Court. Archts. est. $40,000.

Conn., Waterbury—SHOP—M. J. Daly & Sons, Inc., 555 Bank St., 3 story, 42 x 100 ft., brick and steel addition, Bank St., to Lewis Miller, Inc., 22 Church St., Meriden. Archts. est. $40,000.

N. Y., Piermont — FACTORY — Robert Gair & Co., 50 Washington St., Brooklyn, rein.-con. and steel, plain foundation, here, to Turner Constr. Co., 244 Madison Ave., New York City. Archts. est. $300,000.

N. J., North Bergen (Weehawken P. O.) —PLANT—Atlantic Tank & Barrell Corp., Grand Ave., Hoboken, 1 story, rein.-con., brick and steel, plain foundation, here, to W. Kidde, 140 Cedar St., New York City. Archts. est. $60,000.

Pa., Phila. — PRINTING PLANT — R. Barnes, 5233 North 15th St., 2 story and basement, 49 x 81 ft., and 17 x 17 ft., brick and steel, plain foundation, 5806-18 North Marvine St., to F. B. Davenport, 240 North 16th St. Archts. est. $40,000.

Pa., Phila. — FACTORY — Huck & Gerhardt, Inc., 1030 North Bodine St., 1 story and basement, 51 x 202 ft., rein.-con., steel and brick, plain foundation, C and Luzerne Sts., to Schaeffer & Co., Otis Bldg. Archts. est. $500,000.

Md., Conowingo — POWER PLANT — Maryland Pub. Serv. Comn., Baltimore, signed orders making possible construction Conowingo Power Project. Phila. Electric Co. is issuing $36,000,000 bonds to finance development, initial capacity 300,000 hp. additional units will be added later, making total capacity 500,000 hp. Approximate cost initial development $52,000,000. Contract was awarded to Stone & Webster, 147 Milk St., Boston, Mass., Jan., 1925. Noted March 5, 1925.

N. C., High Point—CHAIR FACTORY—Tomlinson Chair Co., 5 story, 80 x 400 ft., 2 units, to J. O. Connor, High Point; and 1 unit to Gallivan Building Co., Greenville, S. C. Total $200,000.

N. C., Kannapolis — COTTON MILL — Cannon Mills Co., 1 story, 100 x 700 ft. and 100 x 300 ft. extension, timber, to Brown-Harry Co., Gastonia, $375,000. Noted Jan. 7.

Fla., Jacksonville—PLANT—Huttig Sash & Door Co., 1206 South Vandeventer Ave., St. Louis, Mo., 2 story, brick and concrete addition, here, to N. J. Sutton, 332 East 3rd St., Jacksonville. Archts. est. $60,000.

Tenn., Memphis—LAUNDRY—Memphis Steam Laundry Co., North 2nd St., 4 story, concrete, rein.-con., brick and steel, Jefferson Ave., to F. J. Ozanne Constr. Co., 1667 Glenview St. Archts. est. $300,000. Noted Feb. 18.

Tenn., Nashville — BAKERY — Amer. Bread Co., 456 4th Ave. N., 2 story and basement, brick and concrete annex, 4th Ave. N., to Boone Contg. Co., 314 Church St., approximately $60,000.

Ky., Paducah—SHOPS—Illinois Central R.R. Co., 135 East 11th Pl., Chicago, Ill., A. F. Blaess, ch. engr., boiler erection and machine shops, to J. E. Nelson & Son, 3240 South Michigan Ave., Chicago, Ill.; and storage buildings, to Ellington Miller Co., 417 South Dearborn St., Chicago, Ill. Engrs. est. $750,000.

O., Cincinnati—MACHINE SHOP—Boye & Emmes Machine Tool Co., 2245 Spring Grove Ave., 2 story and basement, 50 x 150 ft., rein.-con. and brick, plain foundation, to Austin Constr. Co., 16112 Euclid Ave., Cleveland, $60,000.

O., Cincinnati — FACTORY — Cincinnati Mfg. Co., Gest & Evans Sts., 6 story and basement, 72 x 103 ft., rein.-con. and brick, plain foundation, Gest St., to H. C. Hazen Constr. Co., Reading Rd., $70,000.

O., Cleveland—FACTORY—Owen Bucket Co., W. H. Botten, pres., Rockefeller Bldg., 1 and 2 story, 92 x 180 ft., brick and steel, West 58th St., to Uhl-Jaster Co., 1900 Euclid Bldg. Archts. est. $75,000.

O., Youngstown—GARAGE and SERVICE STATION—J. H. Fitch Co., F. G. King, pres., 5 story and basement, 63 x 327 ft., rein.-con. and brick, to Heller Bros., West Boardman St. Archts. est. $400,000. E. R. Muldrew, c/o owner, lessee.

Ind., Ft. Wayne — MILLS — General Hosiery Co., Industrial Park, East Pontiac St., general contract 1 story, 90 x 165 ft., rein.-con., brick and steel, to M. Irmscher, 118 West Berry St. Archts. est. $500,000.

Ind., Noblesville — FACTORY — Amer. Strawboard Co., steel contract for 1 story, 74 x 300 ft., brick and steel factory, to Indiana Bridge Co., Macedonia Ave. and East 12th St., Muncie. Archts. est. $40,000. Private plans.

Mich., Newberry—POWER HOUSE—See "Buildings—Educational, Religious."

Ill., Chicago — FACTORY — A. S. Alschuler, archt., 28 East Jackson Blvd., masonry and carpentry contract 6 story and basement, 85 x 100 ft., Superior and Sedgwick Sts., to Salomon-Waterton Co., 230 East Ohio St., for Peanut Specialty Co., 212 West Superior St. Archts. est. $200,000. Noted Jan. 21.

Ill., Chicago — FACTORY — Graham, Anderson, Probst & White, archts., 80 East Jackson Blvd., general contract 3 story and basement, 120 x 475 ft. addition to train shed, to W. Adams Co., 209 South La Salle St., for Crane Co., 836 South Michigan Ave.

Ill., Joliet—FACTORY—P. F. Volland Co., Washington and Richard Sts., 3 story and basement, 74 x 300 ft., brick, steel and

Buildings—Industrial (Continued)

terra cotta, Richards and Union Sts., to Hansen & Petersen Co., Des Plaines and Allen Sts. Noted May 14, 1925.

Wis., Madison — PLANT — Grimm Book Binding Co., J. J. Grimm, mgr., 423 West Gorham St., 1 story, 58 x 90 ft., rein.-con., brick and steel, Gilman St., to A. Nussbaum, 16 North Pinckny St., Madison. Archts. est. $40,000.

Tex., Mt. Pleasant—ICE PLANT—Texas Pub. Serv. Co., Marshall, 1 story, 50 x 70 ft., 50 ton capacity, fireproof, here, to O. L. Crigler, Marshall, approximately $70,000.

Okla., Muskogee — COTTON GIN and SEED HOUSE—J. M. Pierce, Ry. Exch. Bldg., will build cotton gin of 8 stand, 80 saw capacity, and 120 x 377 ft. steel and concrete seed house, by own forces. $75,000.

Calif., Los Angeles—CREAMERY—Jersey Farm Dairy Co., Vermont and Slauson Aves., will build 1, 2 and 5 story, 164 x 265 ft., 6001 South Gramercy Pl., by day labor, under supervision. J. Schuck, archt., 1223 West 61st St. $54,300.

Calif., Vernon — FACTORY — Southern California Iron & Steel Co., Randolph St., Los Angeles, 1 story, 62 x 190 ft., steel frame factory, 3400 Slauson Ave., to Union Iron Wks., 5125 Santa Fe Ave., Los Angeles, $40,000.

Que., Chelsea—POWER PLANT—International Paper Co., 100 East 42nd St., New York City, 3 generators, transformers, etc. to Westinghouse Electric Co., Hamilton, $1,250,000.

Buildings—Educational, Religious

Proposed Work

Mass., Hanover—SCHOOL—Town, School Com., Town Hall, plans new school. $150,000. Engineer and architect not selected.

Mass., Natick—SCHOOL—Town, School Bd., plans brick and steel school. $150,000. McLaughlin & Burr, 88 Tremont St., Boston, archts.

Conn., New Haven—SCHOOL—Berkeley Divinity School, plans new school, York Sq. $150,000 or more. Engineer and architect not selected.

N. Y., Flushing—SYNAGOGUE—Flushing Free Synagogue, Amity St. soon lets contract brick, steel and stone, Sanford and Jamaica Aves. $250,000. M. Courtland, 366 5th Ave., New York City, engr. and archt. Noted Feb. 11.

N. Y., New York—SCHOOL and DORMITORY — Veshiva College of America, H. F. Fishel, c/o C. B. Myers, engr. and archt., 31 Union Sq., having plans prepared brick, steel and stone, plain foundation, West 187th St. and Amsterdam Ave. $1,000,000.

N. Y., Niagara Falls—HIGH SCHOOL—Bd. Educ. having plans prepared by Tooker & Marsh, engrs. and archts., 101 Park Ave., New York City, brick, steel and stone addition, plain foundation, here. $250,000.

Pa., Pittsburgh—NURSES HOME—St. Johns General Hospital, N. S., Pittsburgh, having plans prepared by R. M. Marlier, Empire Bldg., 3 story and basement, 38 x 112 ft., and 30 x 38 ft., brick and hollow tile, McClure Ave. $150,000.

Md., Baltimore—HOME—Bureau Catholic Charities, 415 Cathedral St., having plans prepared by G. R. Callis, Jr., Hearst Tower, 4 story and basement, 120 x 250 ft., brick and stone, plain foundation, at St. Agnes Hospital. $500,000.

N. C., Asheville — HIGH SCHOOL — Swannanoa School Dist. voted $150,000 bonds, brick high school, for Bd. Educ. Buncombe Co. Noted July 23.

N. C., Charlotte — CHURCH — First Methodist Church, c/o A. M. Whisnant, chn. building com., plans church, incl. educational Sunday school, North Tryon and 8th Sts. $500,000 . Spencer & Phillips, Memphis, Tenn., archts. Noted Sept. 17.

Fla., Bartow—SCHOOL—Bd. Educ. election soon $300,000 bonds, school.

Fla., Ft. Myers—SCHOOL—Lee Co. Bd. Educ. plans election soon. $850,000 bonds, school.

Fla., Lemon City — SCHOOL — R. L. Hamon, supt. Dade Co. (Miami), having plans prepared by H. H. Mundy, 218 Northeast 5th St., Miami, Lemon City High School, here. $400,000.

Fla., Tampa—CHURCH—First Methodist Church having plans prepared by M. L. Elliott, Citizens Bank Bldg., new church. $500,000.

La., Monroe—SCHOOL—City postponed election Feb. 2, $800,000 bonds school and filtration plant. Noted Jan. 21.

Tenn., Knoxville—SCHOOLS—Bd. Educ. having plans prepared by W. B. Ittner, 911 Locust St., St. Louis, Mo., 4 large public schools and additions to 3 others. $350,000.

O., Akron—JEWISH CENTER—Jewish Community Center plans Jewish center, South Balch St. near Five Points. $150,000.

O., Cleveland — CHURCH and SUNDAY SCHOOL — St. Johns Evangelical Church, E. A. Krafft, pastor, raising $150,000 funds, 1 and 2 story, brick, steel and concrete, East 55th St. and Magnet Ave. H. W. Maurer, 1991 East 66th St., archt.

O., Cleveland — ENGINEERING, etc. — Case School of Applied Science, C. S. Howe, pres., Euclid Ave. and Adelbert Rd., having plans prepared by Wilbur Watson and associates, archts. and engrs., 4614 Prospect Ave., 3 story and basement mechanical engineering building, chemistry, gymnasium, architectural, administration, assembly hall and library, mining and proposed extension, electrical engineering addition, moving existing chemistry and administration buildings. $5,000,000.

O., Cleveland Heights (Warrensville P. O.)—CHURCH, SUNDAY SCHOOL and PARISH HOUSE—Corbusier, Lenski & Foster, archts., B. F. Keith Bldg., Cleveland, soon lets contract 1 and 2 story, brick, steel and concrete, Cedar Rd., here, for Grace Lutheran Church. A. W. Barlets, pastor, 1879 East 66th St., Cleveland. $200,000.

O., Tiffin — CHURCH and SUNDAY SCHOOL — Trinity Reformed Church, having plans prepared by Nicklas & Roderick, 1227 Prospect Ave., Cleveland, 1 story, 90 x 150 ft., stone and steel church and Sunday school. $150,000.

Ind., Indianapolis — COLLEGE — Butler College, University and Butler Aves., having plans prepared by Daggett & Hibben, rein.-con. and brick recitation and science building. $500,000.

Ind., South Bend — COLLEGE — Notre Dame University having plans prepared by Cram & Ferguson, 248 Boylston St., Boston, Mass., rein.-con. and brick dining hall, 2,000 seating capacity. $300,000.

Mich., Ann Arbor—MUSEUM—University of Michigan having plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 2 story and basement, rein.-con. and brick, plain foundation. $900,000.

Mich., Iron River — HIGH SCHOOL — Election Apr. 12, $300,000 bonds, 3 story and basement, rein.-con. and brick, plain foundation. Van Leyen, Schilling & Keough, 3441 Cass Ave., Detroit, archts. D. E. Anderson, Iron River, associated archt.

Mich., Royal Oak (Ind. br. Detroit) — SCHOOL—Royal Oak School Dist. had plans prepared by H. T. Keyes, 635 Free Press Bldg., Detroit, 2 story and basement, rein.-con. and brick, plain foundation. $150,000.

Ill., Champaign — CHURCH — McKinley Foundation Congregation, J. W. Malone, Jr., pastor, 412 East Daniel St., takes bids in fall, 2 story and basement, rein.-con., brick and stone church. $200,000. Holabird & Roche, 104 South Michigan St., Chicago, archts.

Wis., Madison—SCHOOL—Bd. Educ., c/o T. Gosling, supt., 22 West Dayton St., having plans prepared by Small & Flad, Ellsworth Bldg., 2 story, rein.-con., brick and steel addition, plain foundation. $200,000.

Wis., Neenah — HIGH and GRADE SCHOOL—Plans election in April, $350,000 bonds, 3 story and basement, brick, tile and concrete, plain foundation, for Bd. Educ., C. Hedges, supt. schools. J. D. Chubb, 109 North Dearborn St., Chicago, Ill., archt.

Wis., Prairie du Chien—SCHOOL—W. A. Benthen, city clk., plans rein.-con., brick and steel school, 1st Ward. $150,000. Engineer and architect not selected.

Wis., Sparta—SCHOOL—State Bd. Control, A. W. Bagley, secy., State Capitol, Madison, having plans prepared by A. Peabody, Madison, 1 story and basement, 45 x 122 ft., and 60 x 148 ft., rein.-con., brick and steel addition, here. $150,000.

Ia., Charles City—SCHOOL—Defeated $250,000 bonds, for school. Project abandoned. Noted Feb. 11.

SUBWAY—NEW YORK, N. Y.

Bids were opened by Board of Transportation, 49 Lafayette St. (lowest four and highest) for Route No. 78, Sect. No. 8, along and under Ft. Washington Ave., from (A) S. B. Mason, 17 West 60th St. (awarded contract); (B) The English Construction Co., 15 West 91st St.; (C) Moranti & Raymond, Inc., 42 Bway.; (D) P. F. Connolly, 9 Jackson Ave., Long Island City; (E) The Lustbader Construction Co., Inc., 101 Park Ave. The unit bids are as follows:

	A	B	C	D	E
*140 cu.yd. earth excavation and disposal at N. R., north of Dyckman St.	$11.00	$14.76	$5.00	$15.00	$8.62
†140 cu.yd. earth excavation and disposal at N. R., south of Ft. Wash. Point	10.90	14.97	5.00	15.50	8.62
*550 cu.yd. rock excavation and disposal at N. R., north of Dyckman St.	11.00	16.09	14.50	15.00	8.62
†550 cu.yd. rock excavation and disposal at N. R., south of Ft. Wash. Point	10.90	16.40	14.50	15.50	8.62
*75,200 cu.yd. tunnel excavation and disposal at N. R., north of Dyckman St.	10.40	15.98	14.50	16.50	21.18
†75,200 cu.yd. tunnel excavation and disposal at N. R., south of Ft. Wash. Pt.	10.30	16.34	14.50	17.00	21.18
9,600 cu.yd. shaft excavation and disposal at N. R., north of Dyckman St.	40.00	16.03	24.00	16.50	32.18
9,600 cu.yd. shaft excavation and disposal at N. R., south of Ft. Wash. Point	39.90	16.40	24.00	16.50	32.18
24,450 cu.yd. concrete masonry	22.00	17.00	19.50	15.25	21.00
55,350 sq.ft. rubbed surface	.10	.10	.10	.15	.05
30 cu.yd. protective concrete	22.00	22.00	19.50	25.00	21.00
35 cu.yd. hollow terra cotta or tile masonry	45.00	42.15	50.00	40.00	57.40
6,000 bbl. portland cement grout	7.50	5.00	5.50	7.00	7.18
250 m. ft. b.m. shaft and tunnel timbering	125.00	125.00	60.00	120.00	175.00
10 cu.yd. broken stone or gravel	5.00	4.75	5.00	5.00	7.18
380 sq.yd. waterproofing treated fabric 3 ply	2.50	2.50	3.00	3.00	3.60
300 lin.ft. cast iron pipe and fittings 3 in.	1.60	1.00	1.00	1.50	2.15
100 lin.ft. cast iron pipe and fittings, 4 in.	2.00	1.69	1.50	2.00	2.90
100 lin.ft. cast iron pipe and fittings, 6 in.	2.90	2.95	2.50	2.50	4.30
100 lin.ft. cast iron pipe and fittings, 8 in.	4.40	4.11	3.00	3.00	4.60
550 lin.ft. standard galvanized pipe, 3 in.	1.80	1.52	1.25	1.50	1.80
250 lin.ft. standard galvanized pipe, 8 in.	5.60	4.48	4.00	4.00	4.20
22,550 duct.ft. tunnel ducts	.26	.25	.30	.30	.36
1,160 ton riveted steel beams and standard shapes	125.00	127.50	115.00	120.00	146.50

	A	B	C	D	E
1,070 ton riveted steel beams and Bethlehem shapes	$137 00	.....	$ 126 00	$120 00	$150 00
2 ton architectural steel and iron	375 00	$422 00	300 00	400 00	430 00
1 emergency exit covers	565 00	475 00	500 00	500 00	500 00
85 ton steel rods and bars	110 00	105 00	100 00	100 00	115 00
1 ton miscellaneous iron castings	190 00	105 00	300 00	150 00	230 00
250 per lb. special wire forms	23	22	20	20	43
4,300 lin.ft. 1¾ in. oak or ash hand rail	50	53	1 00	60	1 00
150 sq.ft. steel gratings for ventilation	3 75	4 48	4 00	4 00	3 60
5 sq.yd. finishing upper 3 in. concrete walls and slabs	1 90	3 00	3 00	3 00	3 90
6,800 lin.ft. steel electric conduits, ¾ in.	40	30	40	60	43
200 lin.ft. steel electric conduits, 1¼ in.	57	80	80	1 50	57
1,100 lin.ft. steel electric conduits, 2 in.	75	1 20	1 25	2 00	86
4,900 lin.ft. steel electric conduits, 1 in.	50	40	50	1 00	72
250 lin.ft. steel electric conduits, 3½ in.	1 50	1 60	1 50	3 00	1 80
10 lin.ft. steel electric conduits, 2½ in.	1 00	1 40	1 25	2 50	1 70
485 4 x 4 x 3 in. c.i. outlet boxes	2 00	1 60	6 00	3 00	2 87
10 6 x 6 x 4 in. c.i. pull boxes	3 20	6 15	6 00	5 00	5 25
1 6 x 12 x 3 in. c.i. pull boxes	7 50	10 00	8 00	5 00	10 00
6 8 x 8 x 4 in. c.i. pull boxes	9 00	10 00	8 00	5 00	10 00
400 lin.ft. c.i. pipes and fittings, extra heavy 6 in.	4 60	4 60	2 50	2 50	3 60
250 lin.ft. c.i. pipes and fittings, extra heavy 3 in.	2 50	3 38	1 25	1 50	2 15
400 lin.ft. c.i. pipes and fittings, extra heavy 4 in.	3 20	2 06	2 00	2 00	86
Total for disposal at N. R., north of Dyckman St. (not including items †) standard shapes	$1,976,190	$2,032,416	$2,033,258	$2,044,210	$2,724,808
Total for disposal at N. R., north of Dyckman St. (not including items †) Bethlehem shapes	1,977,780	.....	2,034,678	2,033,410	2,715,368
Total for disposal at N. R., south of Ft. Wash. Pt. (not including items *) standard shapes	1,967,641	2,063,240	2,033,258	2,082,155	2,724,808
Total for disposal at N. R., south of Ft. Wash. Pt. (not including items *) Bethlehem shapes	1,969,231	.....	2,034,678	2,071,355	2,715,368

Buildings—Educational, Religious (Cont.)

Ark., Fayetteville—COLLEGE—University of Arkansas postponed taking bids 3 story, 88 x 216 ft. engineering building, and 58 x 256 ft. agricultural building, both rein.-con., brick and terra cotta. $650,000. Jamieson & Spearl, Arcade Bldg., St. Louis, Mo., and H. R. Burke, 307 Southern Trust, Little Rock, archts. Noted Jan. 28.

Mo., Clayton—SCHOOL—Voted $140,000 bonds, 3 story school in De Mun tract, for Clayton School Dist., J. L. Bracken, supt. Total cost to exceed $150,000.

Okla., Norman — HIGH SCHOOL — Bd. Educ. having plans prepared by Layton, Hicks & Forsythe, Braniff Bldg., Oklahoma City, 2 story and basement, rein.-con. and brick, plain foundation, Asp St. $150,000 bonds voted.

Okla., Wewoka—HIGH SCHOOL—Bd. Educ. having plans prepared by Monott & Reid, Empire Bldg., Oklahoma City, 2 story and basement, Apple St. $150,000 bonds voted.

Calif., Huntington Park (br. Los Angeles)—SCHOOL—Voted $370,000 bonds, new schools, also additions to present school, for Huntington Park Bd. Educ.

Calif., Marysville — HIGH SCHOOL — Plans election $350,000 or more bonds, high school building, for Marysville High School Dist.

Calif., Palo Alto—LIBRARY—Leland Stanford Junior University having plans prepared by Bakewell & Brown, 251 Kearny St., San Francisco, concrete library, on campus. $150,000.

Ont., Kingston — STUDENTS — Queens University plans 3 story and basement, rein.-con., brick and steel, plain foundation. $150,000. Engineer and architect not selected.

Ont., Toronto — COLLEGIATE — Bd. Educ., 155 College St., having plans prepared by C. E. Dyson, c/o owner, 2 story and basement, rein.-con., brick and steel addition, plain foundation, Harbord St. $150,000.

Bids Desired

N. J., Cliffside Park (mail Cliffside) — HIGH SCHOOL—Mar. 26, by Bd. Educ., Cliffside, brick, steel and stone, plain foundation, Palisade Ave., here. $325,000. E. Sibley, Bluff Rd., Palisade, archt. Noted Dec. 24.

N. J., New Brunswick—PHYSICS—Mar. 24, by Bd. Institutions & Agencies, Trenton, 2 story and basement, brick and steel, plain foundation, here. $389,000. A. B. Mills, State Bldg., Trenton, archt. Noted Apr. 2.

N. J., Nutley (br. Newark) — HIGH SCHOOL — Mar. 26, by Bd. Educ., Park School Bldg., Franklin Ave., constructing high school, Franklin Ave. Guilbert & Betelle, Chamber of Commerce Bldg., Newark, archts. Noted Nov. 20, 1924.

D. C., Wash.—SCHOOL—Mar. 16, by Dist. Comrs., constructing wing MacFarland Junior High School. $180,000.

Fla., Hollywood—SCHOOL—Broward Co. (Ft. Lauderdale) taking bids 2 story school, here. $150,000.

Mich., Ferndale (br. Detroit) — HIGH SCHOOL—Mar. 23, by G. Damon, secy. Bd. Educ. Dist. 9, 2 story and basement, 12 room, rein.-con., brick and steel addition to Lincoln High School, plain foundation, Nine Mile Rd. $150,000. H. T. Keyes, 635 Free Press Bldg., Detroit, archt.

Ill., Hillside — CHURCH SCHOOL and MONASTERY—Mar. 23, by Servite Fathers Monastery, c/o A. Brosnahan, pastor, 3121 West Jackson Blvd., Chicago, 2 and 3 story and basement, rein.-con., brick and stone church, school and monastery. $200,000. O'Meara & Hills, Arcade Bldg., St. Louis, Mo., archts. Noted Jan. 21.

Calif., Los Angeles—HIGH SCHOOL—Mar. 17, by Bd. Educ., Horace Mann Junior High School, part 1, 2 and 3 story, 180 x 527 ft. main building, 75 x 150 ft. shop, rein.-con. and hollow tile. $325,000 or more. Edelman & Zimmerman, H. W. Hellman Bldg., archts. Noted July 23, 1925.

Calif., Los Angeles—SCHOOL—Mar. 17, by Bd. Educ., 2 story, 60 x 256 ft., brick, 118th St. Krempel & Erkes, Bradbury Bldg., archts.

Calif., San Leandro — CONVENT and SCHOOL—J. J. Foley, archt., 770 5th Ave., San Francisco, taking bids 2 story each, rein.-con. school and convent, here, for St. Marys Convent. Noted Feb. 11.

Calif., Ventura—HIGH SCHOOL—Mar. 16, by Trustees Ventura Union High School Dist., 2 story, rein.-con. high school. To exceed $150,000. Austin & Ashley, Chamber of Commerce Bldg., Los Angeles, archts. Noted Dec. 3.

Calif., San Francisco — HOTEL — See "Contracts Awarded."

Bids Received

Mass., Quincy (Ind. br. Boston) — SCHOOL—City, Pub. Building Dept., City Hall, 3 story and basement, 82 x 134 ft., and 70 x 170 ft., brick and steel, Hancock St., from Simpson Bros. Corp., 77 Summer St., Boston, $370,117. Noted Feb. 18.

N. J., Maplewood (br. South Orange)—HIGH SCHOOL—Bd. Educ., Dist. South Orange and Maplewood, general contract New High School, 3 story and part basement, rein.-con., brick and steel, here, from Bowe & Millinet, 388 Bergenline Ave., Union Hill, $1,216,000; heating and ventilating, from J. H. Melles, 832 Springfield Ave., $124,780. Noted Feb. 18.

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., Mar. 3, general contract Elementary Public School, 3 story, attic and basement, 109 x 165 ft., rein.-con. and brick, plain foundation, 6th and Master Sts., from W. Langborne, 10 South 18th St., $419,024; heating, from D. J. Keating, 2042 Rittenhouse St., $43,231.

O., Mt. Vernon—CHURCH—P. L. Wilkins, chn. Building Com., Bd. Trustees Methodist Episcopal Church, Feb. 24, 2 story and basement, 135 x 140 ft., stone, concrete and brick, from Hawkins Constr. Co., Newark, $140,000.

Mich., Detroit—MEDICAL COLLEGE—Bd. Educ., 1354 Bway. Ave. (1st unit) 6 story and basement, 65 x 116 ft., rein.-con. and brick, plain foundation, Mullet and St. Antoine Sts., from Martin Krausman Co., 955 East Jefferson Ave., $248,600. Noted Feb. 11.

Wis., Marshfield—SCHOOL—School Dist. 1, M. Hansen, clk., 3 story and basement, 36 x 207 ft., and 62 x 108 ft., brick and concrete addition to Vocational and Junior High School, plain foundation, from T. Molzahn, 2 Majestic Bldg., La Crosse, $189,290. Noted Feb. 4.

Minn., Minneapolis — SCHOOL — Bd. Educ., C. F. Womrath, bus. mgr., 305 City Hall, Feb. 19, general contract (2nd unit) 3 story and basement, rein.-con., brick and stone addition, 14th St. and Spruce Pl., from L. E. Brophey & Co., 531 Lyndale Ave. N., $98,000. Noted Feb. 11.

Neb., Omaha — HIGH SCHOOL — Bd. Educ., M. Bird, secy., general contract 2 story and basement, 64 x 367 ft. and 164 x 180 ft. wing, rein.-con., brick and stone high school, from P. Kiewetts Sons, Omaha Natl. Bank Bldg., $376,850.

Contracts Awarded

Conn., New Haven — CHURCH — St. Anne's Roman Catholic Church, V. J. Camareta, chn., 1 story and basement, 45 x 115 ft., brick, steel and stone, Arch and Dixwell Aves., to Ruda Constr. Co., 420 1st Ave., West Haven. Archts. est. $150,000. Noted Aug. 13.

Conn., Waterbury—SCHOOL—St. Peters & Pauls Parish, 2 story and basement, brick and steel, Beacher St., to M. A. Durrschmidt, 100 Main St., Derby. Archts. est. $150,000. Noted Feb. 4.

N. Y., Laurel Hill (mail Flushing) — SCHOOL—St. Theresa of the Child Jesus Roman Catholic Church, 5 story, 60 x 125 ft., brick, steel and stone, plain foundation, Locust St., to H. Veit, 260 Devoe St., Brooklyn. Archts. est. $200,000. Noted Feb. 11.

D. C., Wash. — HIGH SCHOOL — Dist. Comrs., District Bldg., Stuart Junior High School, to Parsons & Hyman, Equitable Bldg., $455,000. Noted Mar. 4.

Florida — SCHOOLS — Mar. 23, by Bd. Pub. Instruction Duval Co., 2 Senior High Schools, in Special Tax School Dist. 1.

O., Cincinnati — SCHOOL — Bd. Educ., Denton Bldg., Western Hills High School, 3 story and basement, rein.-con. and brick, plain foundation, Bridgetown Park, to D. Meinken & Son, and David Hummel Build-

Buildings—Educational, Religious (Cont.)

ing Co., Barnard St., $902,472. Noted Dec. 10.

O., Cleveland — RECTORY — St. Agnes Roman Catholic Church, G. P. Jennings, pastor, 8000 Euclid Ave., 3 story and basement, 61 x 99 ft., rein.-con., brick, stone and steel, East 81st St., to C. A. Carson Co., 5716 Euclid Ave. Archts. est. $150,000. Noted Feb. 4.

O., Grandview (Columbus P. O.) — SCHOOL—S. R. Scholes, clk. Bd. Educ., 2 story and basement, 112 x 136 ft., brick and concrete, to E. Elford, 555 Park St., Columbus, $108,950.

O., Zanesville—CHURCH and SUNDAY SCHOOL—St. Johns Evangelical Lutheran Church, W. Long, pastor, 1 and 2 story, 80 x 160 ft., brick and steel, to E. Mast, 100 Greenwood St. Archts. est. $150,000. Noted Dec. 17.

Ind., Fowler—SCHOOL—Mar. 29, by Advisory Bd. Center School Twp. Benton Co., and L. Gunnels, trustee Center School Twp., Natl. Bank Bldg., 2 story and basement, brick and stone school. J. A. Bruck, Kentland, archt. Noted Jan. 7.

Mich., Newberry—HIGH SCHOOL—Bd. Educ., H. Kunert, chn., 3 story and basement, brick, tile and concrete, plain foundation, also remodeling powerhouse, to Foster Constr. Co., 114 Grand Ave., Milwaukee, Wis., $194,878. Noted Jan. 28.

Minn., Edina (Minneapolis P. O.) — SCHOOLS—G. M. Sachs, clk. Independent School Dist. 17, general contract 2 story and basement, rein.-con. and brick, Wooddale Ave. and 50th St., to M. Madsen Co., 702 Natl. Bldg., Minneapolis; also 1 story and basement, brick, 42nd St. and Grimes Ave., to Industrial Contg. Co., 3050 4th Ave., Minneapolis. Combined cost $150,000. Noted Feb. 4.

Okla., Enid—CHURCH—First Presbyterian Church, 2 story and basement, 86 x 146 ft., rein.-con. and brick, plain foundation, 6th St., to G. Buxton, Enid Natl. Bank Bldg., $250,000 cost plus percentage basis. Noted Feb. 18.

Calif., Los Angeles—HIGH SCHOOL—Bd. Educ., general contract John Adams Junior High School, 3 story and basement, 148 x 168 ft., brick and rein.-con., to D. Callahan, Lankershim Bldg., $143,250. Noted Feb. 25.

Calif., Oakland—SCHOOL—Bd. Educ., San Leandro High School, 2 story, brick and steel, to Sampel & Cody, 693 Mission St., San Francisco, $308,000. Noted Feb. 25.

Calif., San Francisco — SCHOOL — Bd. Pub. Wks., general contract Edison School, fireproof, Chattanooga St. between 22nd and 23rd Sts., to Amoroso & Damico, 180 Jessie St., for City and San Francisco Co. $287,000. Noted Feb. 11.

Federal Government Work

Proposed Work

Mass., Chelsea — Quarters — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans double quarters at Naval Hospital, here. Noted Mar. 26.

D. C., Wash. — Office—Treas. Dept., at office Supervising Architect, plans addition main office building, 14th and B Sts. S. W., $5,000,000; office buildings for Dept. Justice $500,000, Dept. Agriculture $2,000,000, General Accounting $2,500,000, Dept. Labor $5,000,000, General Supply Com. $2,000,000, and Inter State Commerce Com. $5,000,000, also groups of buildings $6,000,000, sites for above not selected.

Calif., San Diego—Sewer—Spec. 5189—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans outfall sewer at destroyer base, here.

C. Z., Panama—Pipe Masts—Spec. 5145—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids Feb. 24, 2 guyed steel pipe masts for naval radio station, here. Noted Mar. 4.

Bids Desired

Mass., Lynn—Remodeling—Mar. 31, by Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

Conn., Hartford—Dredging—Apr. 12, by U. S. Engineer Office, Providence, R. I., dredging in Connecticut River, below here; adv. E. N.-R. Mar. 11.

Conn., Torrington—Remodeling—Mar. 26, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here. J. A. Wetmore, acting supervising archt.; adv. E. N.-R. Mar. 11.

N. Y., Northport—Deep Well—Mar. 23, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing deep well at U. S. Veterans Hospital, here. L. H. Tripp, ch. constr. div.

N. Y., Staten Island—Ejector Station, etc. —Mar. 25, by Constructing Quartermasters Office, 39 Whitehall St., New York City, sewage ejector station and discharge sewer line at Miller Field, here; adv. E. N.-R. Mar. 11.

Pa., Lebanon—Remodeling—Mar. 22, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

Md., Baltimore—Storehouse—Mar. 25, by Treas. Dept., at office Supervising Archt., Wash., D. C., storehouse, etc. at U. S. Quarantine Station, here.

D. C., Wash.—Steel, etc.—Cir. 2407—Mar. 15, at office A. L. Flint, genl. purch. officer Panama Canal, Wash., D. C., steel bars, staybolt iron, copper tubing, etc.

Fla., St. Augustine—Remodeling—Mar. 19, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

O., Lima—Vestibule, etc.—Mar. 23, by Treas. Dept., at office Supervising Archt., Wash., D. C., vestibule, etc., at U. S. Post Office, here.

O., Lorain—Vestibule—Mar. 29, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling Post Office, here.

Mo., Joplin—Vestibule, etc.—Mar. 24, by Treas. Dept., at office Supervising Archt., Wash., D. C., vestibule, etc., at U. S. Post Office, here.

Mo., St. Louis—Barges—Mar. 31, by U. S. Engineer Office, 428 Customhouse, 20 small steel barges; adv. E. N.-R. Mar. 11.

Bids Received

Pa., Erie—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., Mar. 3, remodeling U. S. Post Office, here, from A. M. Lundberg, Times Bldg., St. Louis, Mo., $26,220. Noted Feb. 18.

D. C., Wash.—Elevator—U. S. Engineer Office, Navy Bldg., Mar. 1, installing freight elevator for water supply project for Dist. of Columbia, from Westbrook Elevator Co., Danville, Va., $5,700, alternate $4,875. Noted Feb. 4.

N. C., Cape Lookout (mail Beaufort)—Compass Station — Spec. 5182 — Bureau Yards & Docks, Navy Dept., two 100 ft. radio compass stations, at Naval Radio Compass Station, here, from W. F. Martens, Arlington and North Goodman Sts., Rochester, N. Y., **(1)** $4,800 **(2)** $5,600 **(3)** $4,900 and **(4)** $5,800. Noted Feb. 4.

Kan., Hutchinson — Remodeling — Treas. Dept. at office Supervising Archt., Wash., D. C., Feb. 25, remodeling and enlarging U. S. Post Office, here, from A. M. Lundberg, Times Bldg., St. Louis, Mo., $19,990. Noted Feb. 4.

Calif., Mare Island — Hospital — Spec. 5105—Bureau Yards & Docks, Navy Dept., Wash., D. C., general contract rein.-con., brick and steel hospital at Navy Yard Hospital, here, from **(A)** Mahoney Bros., 866 Flood Bldg., San Francisco **(B)** Barrett & Hilp, 918 Harrison St., San Francisco **(C)** R. E. McKee, 1128 Central Bldg., Los Angeles, **(A1)** $229,817 **(B1)** $304,792 **(C1)** $331,600; **(A2a)** $154,041 **(B2a)** $151,774 **(C2a)** $159,400; **(A2b)** $145,517 **(B2b)** $151,445 **(C2b)** $158,200; **(A3)** $299,817 **(B3)** $297,242 **(C3)** $329,600; **(A4)** $293,200 **(B4)** $265,342 **(C4)** $321,600; **(A5 add)** $3,170 **(B5)** $1,300 **(C5)** $5,000; **(A6a)** $154,041 **(B6a)** $149,094 **(C6a)** $159,400; **(A6b)** $145,517 **(B6b)** $148,215 **(C6b)** $158,200; **(A7a)** $151,296 **(B7a)** $146,429 **(C7a)** $155,400; **(A7b)** $142,325 **(B7b)** $144,555 **(C7b)** $155,200; **(A8a)** $27,500 **(B8a)** $21,700; **(C8a)** $21,800; **(A8b)** $27,500 **(B8b)** $21,200 **(C8b)** $21,400; **(A8c)** $25,000 **(B8c)** $20,646 **(C8c)** $21,000; heating, from O. E. Ross, 711 Central Bldg., Los Angeles, **(12)** $29,750 **(13a)** $13,000 **(13b)** $12,900 and **(14)** $2,000. Noted Jan. 21.

Calif., Palo Alto—Water Tanks—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., red wood water tanks for U. S. Veterans Hospital 24, here, from Redwood Manufacturers Co., Hobart Bldg., San Francisco, $7,382. Noted Feb. 4.

Contracts Awarded

N. Y., Buffalo—Breakwater—U. S. Engineers Office, Federal Bldg., concrete superstructure for breakwater in Buffalo Harbor, to O'Brien Constr. Co., Builders Exchange Bldg., Cleveland, O., $39,088. Noted Feb. 25.

D. C., Bennings — Power Plant — Potomac Electric Power Co., 231 14th St. N. W., Wash., contract for design and construction plant addition, here, incl. 20,000 kw. turbo generator with boilers, auxiliaries and switch gear, also 2,000 kw. frequency changer, to Stone & Webster, 147 Milk St., Boston, Mass.

D. C., Wash. — Administration — U. S. Veterans Bureau, Arlington Bldg., administration building and clinic at U. S. Veterans Hospital, Mount Alto, here, to Schneider-Spliedt Co., Kellogg Bldg., Wash., D. C., $158,000. Noted Dec. 31.

Fla., Miami — Office — U. S. Engineer Office, Masonic Bldg., Jackson, office building, here, to L. Wallace, Miami Beach, $6,175. Noted Jan. 7.

Ky., Louisville—Metal Work—U. S. Engineers Office, P. O. Box 72, Lots A, A-1 and A-2 metal work for chanoine heartrap weirs for Dams 52 and 53, Ohio River, to C. Hegewald Co., New Albany, Ind., $15,465.

O., Cincinnati—Mezzanine—Treas. Dept. at office Supervising Archt., Wash., D. C., mezzanine at U. S. Post Office, here, to David Gordon Building & Constr. Co., Burnet and North Avon Sts., $5,999. Noted Feb. 25.

Ill., Evanston—Remodeling—Treas. Dept. at office supervising Archt., Wash., D. C., remodeling U. S. Post Office, here, to Pearson-Regnell Co., 5816 Bway., Chicago, $4,900. Noted Mar. 4.

Minn., Fort Snelling—Refrigeration Plant —Bureau Yards & Docks, Navy Dept., Wash., D. C., icemaking and refrigerating plant for U. S. Veterans Hospital, here, to Milwaukee Steam Appliance Co., West Allis, Wis., $17,560.

S. D., Hot Springs—Refrigeration Plant —U. S. Veterans Bureau, Navy Dept., Wash., D. C., refrigeration and ice making plant at U. S. Veterans Hospital, here, to Baker Ice Machine Co., Inc., 3601 North 16th St., Omaha, Neb., $23,085. Noted Feb. 25.

Tex., Brownsville — Remodeling — Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Court House, Custom House and Post Office, here, to C. Weitz Constr. Co., 711 Mulberry St., Des Moines, Ia., $17,576. Noted Mar. 4.

T. H., Pearl Harbor — Administration — Spec. 5149—Bureau Yards & Docks, Navy Dept., Wash., D. C., extending administration building, here, to W. Wills, 502 Thompson St., Seattle, Wash., $97,821 (240 days). Noted Mar. 4.

FEDERAL POWER COMMISSION

Application for Licenses and Permits

Applications

686—Union Carbide Co., 1709 East Cary St., Richmond, Va. — Wants preliminary permit power project in Clinch and Powell Rivers and tributaries, in Tennessee and Virginia.

687—Oroville-Wyandotte Irrigation District, Oroville, Calif.—Wants preliminary permit power project in South Fork Feather River and tributaries, in Butte and Plumas Counties.

688—Tongass Power & Light Co., Hyder, Alaska —Wants preliminary permit power project in Salmon River, Tongass Natl. Forest.

689—Tongass Power & Light Co., Hyder, Alaska —Wants preliminary permit power project in Soule River, Tongass Natl. Forest Park.

690 — G. T. Stetson & H. S. Nixon, trustees Ojai Irrigation Dist., Ojai, Calif.—Wants preliminary permit constructing 180 ft. dam, creating 30,800 acre-feet capacity reservoir, 8.2 mi. conduit and power house, approximately 2 mi. northeast of Ojai, Ventura Co.

691—Cliff Gold Mining Co., Laramie, Wyo. — Wants preliminary permit small power project in Middle Fork of Little Laramie River.

Unclassified

Proposed Work

Conduits, etc.—Hartford, Conn.—Hartford Electric Light Co., 266 Pearl St., plans new conduits $97,100, removing overhead wires $88,500, and increasing cable facilities $74,400. A. D. Colvin, genl. mgr.

Grand Stand—Gulfport, Miss.—Gulfport Athletic Assn., owners of Gulfport Cotton

Unclassified (Continued)

Shops League, having plans prepared by Smith & Norwood, Gulfport, new grand stand, 2,000 seating capacity.

Boilers, etc.—Indianapolis, Ind.— Indianapolis Power & Heat Co., W. C. Marmon, pres., Monument Pl., plans 3 new boilers at Mill St. plant, $50,000; also new lines, poles, meters, transformers for extending service to homes, $200,000.

Gas Pipe Line—Texas—Upham Gas Co., Mineral Wells, plans 60 mi. 8 and 12 in. pipe line from Shamrock Gas and Oil Fields in Wheeler Co. to Childress. $700,000. Private plans.

Pier—Breckenridge, Tex.—See "Buildings—Industrial."

Transmission Line—California—City of San Francisco and San Francisco Co. (San Francisco) plan electric transmission line from Newark, Alameda Co. to San Francisco, along Bay Shore. $20,000 appropriated to finance survey. M. M. O'Shaughnessy, city engr.

Ornamental Lighting System—Burbank, Calif.—See "Streets and Roads."

Subway—Fresno, Calif.—Fresno Co. and Santa Fe R.R. Co., C. F. W. Felt, ch. engr., 80 East Jackson Blvd., Chicago, Ill., making preliminary plans subway under Santa Fe R.R. tracks in McKinley Ave. $100,000-$150,000. C. P. Jensen, Fresno, co. surv.

Ornamental Lighting System—Glendale, Calif.—Ornamental lighting system on San Fernando Rd. and Western Ave., to K. D. Miller, 218 South Greenleaf Ave., Whittier, $10,285.

Ornamental Lighting System — Long Beach, Calif.—City Council soon takes bids metal standards on Atlantic Ave. To exceed $70,000. R. D. Van Alstine, city engr.

Transmission Line — Ontario — Insull Power Co., Sault Ste Marie, plans 40 mi. transmission line from Michipicoten to Goudreau Goldfields. $150,000. J. A. McPhail, c/o owners, engr.

Bids Desired

Elimination Grade Crossing — Buffalo, N. Y.—Mar. 15, at office Grade Crossing & Terminal Station Comn., 1036 Endicott Sq., eliminating grade crossing of Colvin St. at Erie and Delaware, Lackawanna & Western R.R. by constructing subway and approaches. G. H. Norton, ch. engr. Noted Dec. 17.

Grade Separation—Michigan—See "Contracts Awarded."

Swimming Pool—Belle Isle (mail Tobins Harbor), **Mich.** — See "Buildings — Commercial."

Electrical Equipment and Breakwater—Chicago, Ill.—Mar. 16, by City, City Hall, electrical equipment for double leaf trunnion bascule bridge over South Branch Chicago River, at Adams St.; also pile and timber breakwater on line 450 ft. north of and parallel to Municipal Pier. A. A. Sprague, comr.

Lighting System—Elmhurst, Ill.—Mar. 29, by Bd. Local Impvts., ornamental street lighting system. F. N. Neumann, city clk.; adv. E. N.-R. Mar. 11.

Transmission Line—Wisconsin—Wisconsin Valley Electric Co., F. Nolte, purch. agt., 206 3rd St., taking bids road poles, cross arms, insulators, wire, etc., for approximately 40 mi. transmission line between Wausau and Antigo. Private plans.

Ornamental Lighting System—Los Angeles, Calif.—Supervs. Los Angeles Co. taking bids metal standards on streets between Slauson Ave. and 84th Pl., and from Central Ave., easterly, Co. Impvt. 406. To exceed $50,000.

Wharf—Monterey, Calif.—City Council taking bids Wharf 2, steel. Former bids rejected. F. B. Smith, Holbrook Bldg., San Francisco, engr. Noted Feb. 18.

Coke Ovens—Hamilton, Ont.—See "Contracts Awarded."

Bids Received

Cast Iron Pipe — Boston, Mass. — City, 100,000 lb. 4 in. diam., spigot and bell c.i. pipe, from U. S. Cast Iron Pipe & Fdry. Co., Morris Bldg., Phila., Pa., $4,300; other c.i. requirements, from G. A. Caldwell Co., Willoughby Rd., Milton, $0.048 per lb.

Lighting System—New York, N. Y.—Bd. Health, L. I. Harris, pres., 505 Pearl St., Mar. 1, underground roadway lighting system, in various buildings, Riverside Hospital, North Brothers Island, Bronx, from F. Scandon, 86 Park Pl., $53,000. Noted Feb. 18.

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., subway connecting Manhattan-Bronx Subway to Manhattan Elevated line, Agreement "EE," from M. D. Walsh, 1124 Findlay Ave., $218,920. Noted Feb. 25.

Asphalt Plant — Detroit, Mich. — Dept. Pub. Wks., Feb. 17, 1 story, 37 x 37 ft., rein.-con. silo and shop, Lynch and French Rds., from J. L. Beecher Co., 8014 Grand River Ave., Detroit, $25,065. Noted Feb. 11.

Contracts Awarded

Swimming Pool — Worcester, Mass. — Worcester Polytechnic Institute, R. Earle, pres., Dr. Homer Fuller Memorial swimming pool, to E. D. Ward Co., 82 Foster St., Worcester. Engrs. est. to exceed $25,000.

Ice Arena—New Haven, Conn.—Berkshire Ice Corp., 2 story, 80 x 200 ft. ice arena, rein.-con., brick and steel, Grove St., to Sullivan & McKeon, 937 Dixwell Ave. About $450,000.

Fire Alarm System—New York, N. Y.—Fire Dept., Municipal Bldg., portion underground fire alarm system, to J. Gerhart, 50 Church St., $11,750. Noted Feb. 25.

Docks, etc. — Montauk, N. Y. — Montauk Beach Development Corp., C. G. Fisher, 52 Vanderbilt Ave., New York City, 700 ft. and 450 ft. piers and 2 bridges, here, to Robbins-Ripley Co., 50 Church St., New York City. Engrs. est. $250,000.

Street Lighting System — Phila., Pa. — See "Streets and Roads."

Underpass—Atlanta, Ga.—City, underpass at Bell St. between Hunter and Decatur Sts., to Hagedorn Constr. Co., Greensboro, N. C., $72,900. Engrs. est. $75,000. Noted Aug. 27.

Grade Separation—Michigan—State Hy. Dept., at office Comrs. Monroe Co., Monroe, will build Grade Separation 5,804,003 under Detroit & Ironton R.R. tracks, by state construction forces. $70,435. Noted Feb. 11.

Culverts—Albia, Ia.—See "Streets and Roads."

Ornamental Lighting System—Los Angeles, Calif.—Ornamental lighting system on Hillhurst Ave. between Los Feliz and Hollywood Blvds., to D. S. McEwan, 2930 Main St., Ocean Park, $32,250. Noted Feb. 18.

Swimming Pool—Santa Monica, Calif.—See "Buildings—Commercial."

Coke Ovens—Hamilton, Ont.—Hamilton By Product Coke Ovens will build 35 by product ovens, installing coal and coke handling equipment, etc., under supervision A. T. Leavitt, engr., c/o owner. $1,500,000.

Materials

Proposed Work

Road Oil—Carlinville, Ill.—See "Streets and Roads."

Road Oil—Mt. Sterling, Ill.—See "Streets and Roads."

Cement, Bars, etc. — Corydon, Ia. — Bd. Supervs. Wayne Co. soon takes bids 1,200 bbl. cement, 50 tons reinforcing bars, 3 tons nails, 5,000 ft. corrugated iron pipe and 2 tons red lead in oil. C. H. Ford, resident engr.

Wire, etc.—Nebraska and South Dakota—Northwestern Bell Telephone Co., 19th and Douglas Sts., Omaha, Neb., plans to purchase 21,900 mi. copper wire in cable, 1,150 mi. open copper and 365 mi. iron wire, 25,300 poles, 11,700 cross arms, etc., here. $1,521,000.

Bids Desired

Portland Cement, etc.—Brooklyn, N. Y.—Mar. 17, by J. A. Guider, pres. Brooklyn Boro, Boro Hall, 8,000 bbl. Portland cement; 5,000 cu.yd. 1½ in. aggregate; 3,000 cu.yd. sand grit; 4,000 cu.yd. paving and concrete sand; 2,000 cu.yd. paving and concrete sand; 600,000 gal. asphaltic road oil for cold application; 600,000 gal. asphaltic cement for bituminous and concrete mixtures; 3,000 tons limestone; 12,000 cu.yd. asphalt sand; 8,000 cu.yd. binder stone; and 15,000 cu.yd. steam cinders.

Lumber, etc.—New York, N. Y.—Mar. 16, by P. J. Dooling, comr. Purchase, Municipal Bldg., lumber and creosoted paving blocks, to Dept. Parks in Bronx, Manhattan and Brooklyn, Police and Correction Depts., and Dept. Plants & Structures.

Rails, Timber, etc.—New York, N. Y.—Mar. 19, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., for open hearth rail (Order 4) for Rapid Transit R.R. also ties and timber (Order 14) for portion of Queensboro Subway.

Creosoted Ties—Phila., Pa.—Mar. 16, H. E. Ehlers, dir. Dept. City Transit, 1211 Chestnut St., creosoted ties, approximately 1,735,000 ft. timber mostly southern yellow pine. Noted Feb. 11.

Paving Materials—Phila., Pa.—Mar. 15, by Dept. Supplies, City Hall, Class 158 for paving, gravel, stone and asphalt wearing surface, etc. E. J. Lafferty, dir.

Paving Blocks—Baltimore, Md.—Mar. 17, by Bd. Awards, vitr. paving blocks for Bureau Highways during 1926, f.o.b. Baltimore. S. Purcell, City Hall, highways engr.

Road and Bridge Material — Memphis, Tenn.—Mar. 16, by Comrs. Shelby Co., E. W. Hale, chn., annual supply of road and bridge materials, incl. crushed limestone, road gravel, concrete gravel, sand, cement, steel, piling, pine, oak lumber, culvert pipe, bituminous material, natural rock asphalt (heated and cold), mule shoes, fuel oil and lubricating oil, etc.

Cast Iron Pipe—Cleveland, O.—Mar. 19, by City, 2,190 tons 3- to 60-in. c.i. pipe.

Lumber, Gravel, Stone, etc.—Indianapolis, Ind.—Mar. 19, by Bd. Comrs. Marion Co., bridge lumber, gravel, stone, asphalt, etc. H. Dunn, co. aud.

Paving Blocks—Detroit, Mich.—Mar. 23, by Dept. Purchases & Supplies, Marquette Bldg., 200,000 granite paving blocks, f.o.b. Detroit.

Asphalt Filler, etc.—Kenosha, Wis.—Mar. 13, by C. M. Osborn, city mgr., 50 tons asphalt filler, 3 tons 24 in. motor brown fibre, and ½ ton 24 in. gutter brown wire.

Wire—Kenosha, Wis.—Mar. 15, by C. M. Osborn, city mgr., 5 mi. 10 B & S gage hard drain triple braid weatherproof copper wire, for Fire & Police Depts.

Cables, etc.—Milwaukee, Wis.—Mar. 15, by Central Bd. Purchases, J. W. Nicholson, ch. buyer, 41,405 ft. lead encased paper insulation cable and 20,000 ft. vitr. clay conduits.

Road Oil, etc.—Milwaukee, Wis.—Mar. 15, by Central Bd. Purchases, W. J. Nicholson, ch. buyer, 100,000 gal. more or less, each special and medium light asphaltic road oil, 50,000 gal. more or less light bituminous, 150,000 gal. more or less bituminous surfacing material, and 500,000 gal. more or less bituminous binder (heavy tar).

Trap Rock, Gravel, etc. — Minneapolis, Minn. — Mar. 15, by F. S. Gram, city purch. agt., 4,500 cu.yd. trap rock and 1,000 cu.yd. washed gravel. N. W. Elsberg, city engr.

Road Oil—Minneapolis, Minn.—Mar. 18, by F. S. Gram, city purch. agt., road oil for Dept. Engineering. N. W. Elsberg, city engr.

Pipe, etc., Cisco, Tex.—Milton Oil Co., taking bids new and second hand pipe, 4½, 6⅝, 8, 10, 12½, 15½ and 20 in. casing, also 250, 500 and 1,000 bbl. knockdown steel tanks and fittings. $40,000.

Bids Received

Asphalt and Asphalt Filler—St. Paul, Minn.—A. E. Eggert, city purch. agt., Feb. 23, 350 tons asphalt, from A. W. Van Hafften, 4536 Dupont Ave. S., Minneapolis, $22.25 per ton; and 80 tons asphalt filler, from Standard Oil Co., 3rd and Commercial Sts., $21.70.

Pig Lead—Phila., Pa.—Dept. Pub. Wks., Bureau of Water, Feb. 23, 50,000 lb. pig lead, Contr. 794, from N. Tralter & Co., 36 North Front St., $4,710. Noted Feb. 18.

Contracts Awarded

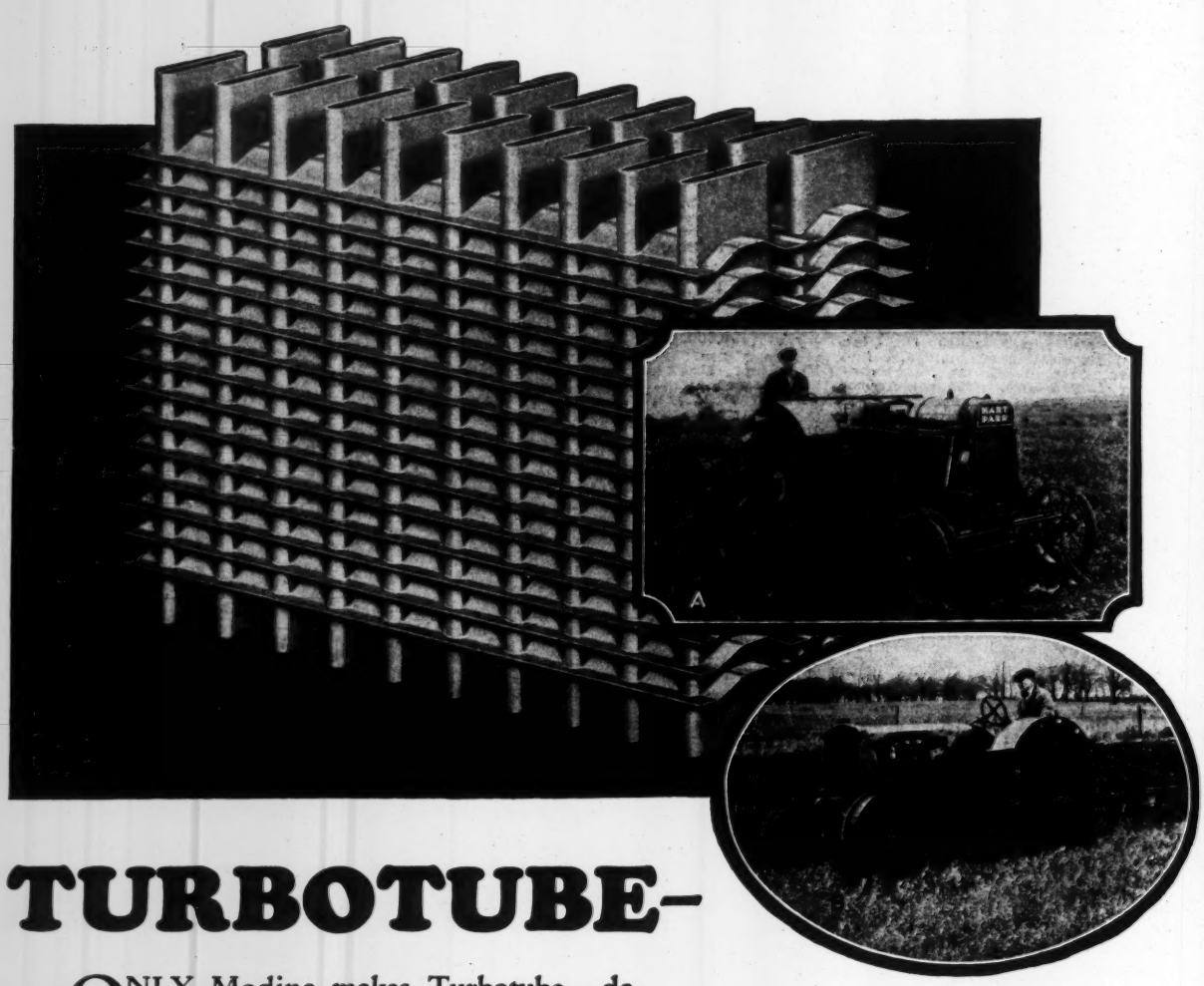
Calcium Chloride, etc.—Freehold, N. J.—Bd. Freeholders Monmouth Co., 50 tons calcium chloride, to Wing & Evans, 40 Rector St., New York City, at $28.80 per ton, total $1,440; 75,000 gal. tar road surface dressing, to W. G. Harrington, 50 Church St., New York City, $0.405 per gal., total $30,375; and 100,000 gal. asphaltic oil, to Asphalt Service Co., Inc., 84 Bayard St., New Brunswick, $0.2049 per gal., total $20,490. Grand total $52,305. Noted Feb. 18.

Cement, Gravel and Sand—St. Augustine, Fla.—D. P. Davis Properties, 100,000 bbl. cement and 100,000 tons gravel and sand, to Taylor Bros. & Co., foot of Main St., Norfolk, Va., $800,000.

Cement — Detroit, Mich. — Commissioner Purchases & Supplies, Marquette Bldg., 250,000 bbl. Portland cement, f.o.b. Wyandotte, to Huron Wyandotte Portland Cement Co., Ford Bldg., at $2.10 per bbl. Noted Feb. 11.

Road Oil — Watertown, Wis. — F. S. Weber, city clk., 100,000 gal. 50 to 60% asphaltic content, to Standard Oil Co., 414 Sycamore St., Milwaukee, $0.0576 per gal. Noted Feb. 4.

Creosoted Paving Blocks — Milwaukee, Wis. — Central Bd. Purchases, for 7,000 more or less sq.yd. creosoted paving blocks, to E. J. Stocking Co., 111 West Washington St., Chicago, Ill., at $2.09 per sq.yd. Noted Jan. 28.



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ONLY Modine makes Turbotube—designed to new standards of performance and structural stability.

"Turbotube" combines all the advantages of high cooling capacity with new limits in strength, light weight and free, unrestricted water circulation.

It is for these reasons that Hart-Parr and the J. I. Case Plow Works have selected *Turbotube cooling for their tractors.*

Again, Modine's more than 15 years of progressive specialization on the special problem of radiation is serving industry in a better way.

MODINE MANUFACTURING CO.
RACINE, WISCONSIN

A—Turbotube-cooled Hart-Parr 16-30 H.P. Oil Tractor, product of the Hart-Parr Co., Charles City, Ia.

B—Turbotube-cooled 15-27 H. P. Wallis Tractor, made by the J. I. Case Plow Works, Racine.

1 to 1000 H. P.—Any Type—Tubular or Cellular (Spirex)—Sectional—Conventional Cast—Sheet Metal, or if preferred only cores or sections.

MODINE RADIATORS

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Office, New York, N. Y., Consol. Realty Co., having plans prepared, $8,000,000.

Club, New York, N. Y., Cinema Club of America having plans prepared, $5,000,000.

Office and theatre, Toledo, O., Publix Theatre Corp. having plans prepared, $5,000,000.

Loft, New York, N. Y., Kymsen Building Corp. having preliminary plans prepared, $4,000,000.

Infirmary, Jackson, Miss., Mississippi Insane Hospital plans group of buildings, $2,500,000.

Telephone lines and buildings, Indiana, Indiana Bell Telephone Co. plans line extension and buildings, $2,125,000.

Hotel, Chicago, Ill., S. Cole et al having plans prepared, $1,750,000.

Hospital, Pittsburgh, Pa., Montefiore Hospital Assn. having plans prepared, $1,500,000.

Hotel, San Mateo, Calif., M. G. McCann had plans prepared, $1,500,000.

Apartment, Beverly Hills, Calif., W. G. McCarty had plans prepared, $1,500,000.

Apartment, Chicago, Ill., K. Rosenthal having plans prepared, $1,225,000.

Bids Wanted

Club house, New York, N. Y., National Town & Country Club soon takes bids, $5,000,000.

Hall of Records, Newark, N. J., Essex Co. Bd. Freeholders soon takes bids on heating and ventilating.

Hotel, Jacksonville, Fla., Vanderbilt Hotel Corp. soon takes bids, $2,000,000.

Theatre, Yonkers, N. Y., J. E. Andrus soon takes bids, $1,000,000.

Contracts

Subway, New York, N. Y., Bd. Transportation to Moranti & Raymond, $4,160,322.

Hall of Records, Newark, N. J., Essex Co. Bd. Freeholders to Niewenhouse Co., $2,158,925.

Apartment, Pittsburgh, Pa., The Fifth Ave. Apartment Corp. to Boyle Robertson Constr. Co., $1,500,000.

Theatre and store, Chicago, Ill., Marks Bros. to Longacre Eng. & Constr. Co., $1,500,000.

Street Improvement, Los Angeles, Calif., Bd. Pub. Wks. to North Pacific Constr. Co., $1,034,885.

Plant, Douglas, Ariz., Phelps-Dodge Corp. to Dwight P. Robinson, N. Y. C., $1,000,000.

Classified Index of Bids Wanted

Waterworks

Bids close — See Eng. News-Record

Mar. 19 Holyoke, Mass. ..... Mar. 11
Mar. 19 Cleveland, O. ..... Mar. 11
Mar. 20 Belmont, N. C. ..... Mar. 18
Mar. 20 Roslyn, N. Y. ..... Mar. 18
Adv. Mar. 11 and 18.
Mar. 22 Yonkers, N. Y. ..... Mar. 4
Adv. Mar. 4 to 18.
Mar. 22 St. Louis, Mo. ..... Mar. 18
Mar. 23 Detroit, Mich. ..... Mar. 11
Mar. 23 Long Beach, Miss. ..... Mar. 11
Adv. Mar. 11 and 18.
Mar. 23 Akron, O. ..... Mar. 11
Mar. 23 Cincinnati, O. ..... Mar. 18
Mar. 23 Milwaukee, Wis. ..... Mar. 18
Mar. 23 Chicago, Ill. ..... Mar. 18
Mar. 26 East Paterson, N. J. ..... Feb. 18
Mar. 26 Preston, Md. ..... Mar. 4
Adv. Mar. 4 and 18.
Mar. 26 Wash., D. C. ..... Mar. 4
Mar. 26 Wash., D. C. ..... Mar. 11
Mar. 26 Marshfield, Wis. ..... Mar. 18
Mar. 29 Waite Park, Minn. ..... Mar. 11
Mar. 29 Mankato, Minn. ..... Mar. 18
Mar. 29 Oneida Castle (mail Oneida), N. Y. ..... Mar. 18
Adv. Mar. 18.
Mar. 30 Tampa, Fla. ..... Mar. 11
Mar. 31 Warsaw, Ill. ..... Mar. 4
Mar. 31 Berea, O. ..... Mar. 18
Adv. Mar. 18.
Mar. 31 Decatur, Ill. ..... Mar. 11
Adv. Mar. 11 and 18.
Apr. 5 Claysville, Pa. ..... Mar. 18
Apr. 5 Athens, N. Y. ..... Mar. 18
Adv. Mar. 18.
Apr. 6 St. Louis, Mo. ..... Mar. 18
Apr. 12 New Britain, Conn. ..... Mar. 18
Adv. Mar. 18.

Sewers

Mar. 23 Paris, Ark. ..... Mar. 11
Mar. 23 Chicago, Ill. ..... Mar. 18
Mar. 23 Toronto, Ont. ..... Mar. 18
Mar. 23 Alice, Tex. ..... Mar. 18
Mar. 23 Morgantown, W. Va. ..... Mar. 18
Mar. 23 St. Paul, Minn. ..... Mar. 18
Mar. 23 Milwaukee, Wis. ..... Mar. 18
Mar. 24 Baton Rouge, La. ..... Mar. 18
Mar. 24 Brooklyn Heights (mail Independence), O. ..... Mar. 18
Mar. 24 Kansas City, Mo. ..... Mar. 4
Mar. 25 Sioux Falls, S. D. ..... Mar. 4
Mar. 25 New York City, N. Y. ..... Mar. 18
Mar. 25 Longview, Wash. ..... Mar. 18
Mar. 26 Seattle, Wash. ..... Mar. 18
Mar. 31 Phila., Pa. ..... Mar. 18
Apr. 2 Kissimmee, Fla. ..... Mar. 18
Adv. Mar. 18.
Apr. 3 Ashtabula, O. ..... Mar. 18
Apr. 5 Coatesville, Pa. ..... Mar. 11

Bids close — See Eng. News-Record

Apr. 7 Rye, N. Y. ..... Mar. 11
Adv. Mar. 11 and 18.
Apr. 8 Bromley, Ky. ..... Mar. 18
Adv. Mar. 18.
Apr. 12 Buffalo, N. Y. ..... Mar. 18
Adv. Mar. 18.

Bridges

Mar. 19 Ohio ..... Mar. 11
Mar. 22 Millgrove (Roaring Creek P. O.), Pa. ..... Mar. 18
Mar. 23 Louisiana ..... Mar. 11
Mar. 23 Texas ..... Mar. 11
Mar. 25 Galveston, Tex. ..... Mar. 18
Mar. 26 Dayton, O. ..... Mar. 18
Mar. 29 San Antonio, Tex. ..... Mar. 11
Mar. 29 Camden, N. J. ..... Mar. 11
Adv. Mar. 11 and 18.
Mar. 29 California ..... Mar. 18
Mar. 30 Tampa, Fla. ..... Feb. 25
Mar. 30 Louisiana ..... Feb. 25
Mar. 30 Poughkeepsie, N. Y. ..... Mar. 4
Adv. Mar. 4 to 18.
Mar. 30 Louisiana ..... Mar. 4
Mar. 30 North Carolina ..... Mar. 18
Mar. 31 Illinois ..... Mar. 18
Apr. 2 Georgia ..... Mar. 18
Apr. 5 New Jersey ..... Mar. 18
Adv. Mar. 18.
Apr. 6 Gulfport, Miss. ..... Mar. 18
Apr. 6 Jones, La. ..... Mar. 4
Apr. 6 St. Louis, Mo. ..... Mar. 11
Apr. 22 North Dakota ..... Mar. 18
Adv. Mar. 18.

Dams

Apr. 6 New Brunswick, N. J. ..... Mar. 18
Adv. Mar. 18.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Mar. 19 British Columbia ..... Mar. 11
Mar. 20 Nebraska ..... Mar. 11
Mar. 20 Crawfordsville, Ind. ..... Mar. 18
Mar. 22 Marianna, Ark. ..... Mar. 18
Mar. 24 Santa Rosa, Calif. ..... Mar. 18
Mar. 24 Baltimore, Md. ..... Mar. 18
Mar. 25 Hammond, La. ..... Mar. 4
Mar. 26 Shreveport, La. ..... Mar. 11
Apr. 5 Peru, Ind. ..... Mar. 4
Apr. 8 New York City, N. Y. ..... Mar. 11
Adv. Mar. 11 and 18.
Apr. 15 Albany, N. Y. ..... Mar. 18
Adv. Mar. 18.

Streets and Roads

Mar. 19 Ohio ..... Mar. 11
Mar. 19 Virginia ..... Mar. 11
Mar. 19 Cincinnati, O. ..... Mar. 11
Mar. 20 Harrison, N. Y. ..... Mar. 18
Mar. 22 New Jersey ..... Mar. 4

Bids close — See Eng. News-Record

Mar. 22 Ontario ..... Mar. 11
Mar. 22 Texas ..... Mar. 11
Mar. 22 Dayton, O. ..... Mar. 11
Mar. 22 Winona, Minn. ..... Mar. 18
Mar. 22 Beloit, Wis. ..... Mar. 18
Mar. 23 Larned, Kan. ..... Mar. 4
Mar. 23 Pennsylvania ..... Feb. 25
Mar. 23 Bastrop, La. ..... Mar. 11
Mar. 23 Sigourney, Ia. ..... Mar. 11
Mar. 23 Williamson, W. Va. ..... Mar. 11
Mar. 23 Louisiana ..... Mar. 11
Mar. 23 Indiana ..... Mar. 11
Mar. 23 Elkhart, Ind. ..... Mar. 11
Mar. 23 North Dakota ..... Mar. 18
Mar. 23 Michigan ..... Mar. 18
Mar. 23 Monona, Ia. ..... Mar. 18
Mar. 23 Winterset, Ia. ..... Mar. 18
Mar. 23 Stillwater, Okla. ..... Mar. 18
Mar. 23 Wenona, Ill. ..... Mar. 18
Mar. 23 Towson, Md. ..... Mar. 18
Mar. 23 Chicago, Ill. ..... Mar. 18
Mar. 23 Sylva, N. C. ..... Mar. 18
Mar. 24 Lake Forest, Ill. ..... Mar. 18
Mar. 24 Smithfield, N. C. ..... Mar. 11
Mar. 24 Holton, Kan. ..... Mar. 4
Mar. 24 North Dakota ..... Mar. 11
Mar. 24 Hastings, Minn. ..... Mar. 11
Mar. 24 Uniontown, Pa. ..... Mar. 18
Mar. 24 Cleveland, O. ..... Mar. 18
Mar. 24 Warsaw, Ind. ..... Mar. 18
Mar. 24 Clayton, Mo. ..... Mar. 18
Mar. 25 Florida ..... Feb. 18
Mar. 25 Biloxi, Miss. ..... Mar. 11
Mar. 25 Windsor, N. C. ..... Mar. 18
Mar. 25 Michigan ..... Mar. 18
Mar. 25 Pasco, Wash. ..... Mar. 18
Mar. 25 Wisconsin ..... Mar. 18
Mar. 25 Wenatchee, Wash. ..... Mar. 18
Mar. 25 New York City, N. Y. ..... Mar. 18
Mar. 26 Hays, Kan. ..... Mar. 4
Mar. 26 Huntington, W. Va. ..... Mar. 11
Mar. 26 North Dakota ..... Mar. 11
Mar. 26 Michigan ..... Mar. 18
Mar. 26 Idaho ..... Mar. 18
Mar. 26 Wisconsin ..... Mar. 18
Mar. 27 Hoxie, Kan. ..... Mar. 11
Mar. 27 Montefano, Wash. ..... Mar. 18
Mar. 29 Oskaloosa, Kan. ..... Mar. 4
Mar. 29 Los Angeles, Calif. ..... Mar. 18
Mar. 29 Arizona ..... Mar. 18
Mar. 29 Cedar Rapids, Ia. ..... Mar. 18
Mar. 29 Milan, Mo. ..... Mar. 18
Mar. 29 San Diego, Calif. ..... Mar. 18
Mar. 30 Ottawa, Kan. ..... Mar. 4
Mar. 30 Washington ..... Mar. 18
Mar. 30 St. Louis, Mo. ..... Mar. 18
Mar. 30 North Carolina ..... Mar. 18
Mar. 30 North Dakota ..... Mar. 18
Mar. 30 Maryland ..... Mar. 18
Adv. Mar. 18.
Mar. 31 Erie, Kan. ..... Mar. 4
Mar. 31 North Dakota ..... Mar. 18
Mar. 31 New Jersey ..... Mar. 18
Adv. Mar. 18.

See proposed advertising on page 126, Advertising Section

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Good Pipe Joints

Has it occurred to you why so many water works men are using Leadite for making joints in all sizes of cast iron water mains?

There are many sound reasons.

The most important reason is that experience has proven Leadite joints are good joints and improve with age.

The other reasons relate to saving in the cost of material and labor.

Leadite facilitates rapid completion of the work.

Leadite saves money from every angle of pipe laying.

Anyone can make Leadite joints; Leadite is very easy and simple to handle.

Yarn the joint, pour it full of molten Leadite, and the joint is finished.

If you have never tried Leadite, do not pass up a good thing without investigating it.

Give Leadite a trial.

Leadite resists electrolysis.

Leadite does not corrode or rust.

Leadite has been successfully tested and used for over 30 years.

Thousands of miles of pipe jointed with Leadite are in service.

The up-to-date water works man specifies and uses LEADITE.

Laying 36-in. c. i. Water Mains With Leadite Joints

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking Material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids close — *See Eng. News-Record*

Mar. 31 Illinois ..... Mar. 18
Mar. 31 Knoxville, Tenn. ..... Mar. 18
Adv. Mar. 18.
Mar. 31 Burlington, Wis. ..... Mar. 18
Mar. 31 Tabor, N. C. ..... Mar. 18
Mar. 31 North Dakota ..... Mar. 18
Mar. 31 Unionville, Mo. ..... Mar. 18
Apr. 1 Oakhurst, N. J. ..... Mar. 18
Adv. Mar. 18.
Apr. 1 North Dakota ..... Mar. 18
Apr. 2 Iola, Kan. ..... Mar. 11
Apr. 2 North Dakota ..... Mar. 18
Apr. 2 Georgia ..... Mar. 18
Apr. 5 Coatesville, Pa. ..... Mar. 11
Apr. 5 Martinez, Calif. ..... Mar. 18
Apr. 6 Auburn, Ind. ..... Mar. 18
Apr. 6 Newton, Kan. ..... Mar. 18
Apr. 6 Winona, Miss. ..... Mar. 11
Apr. 6 Louisiana ..... Mar. 11
Apr. 6 St. Louis, Mo. ..... Mar. 18
Apr. 6 Pennsylvania ..... Mar. 18
Adv. Mar. 18.
Apr. 6 North Dakota ..... Mar. 18
Apr. 6 Indiana ..... Mar. 18
Apr. 6 Vincennes, Ind. ..... Mar. 18
Apr. 7 Pennsylvania ..... Mar. 18
Adv. Mar. 18.
Apr. 8 Winfield, Kan. ..... Mar. 11
Apr. 9 North Dakota ..... Mar. 18
Apr. 12 Kentucky ..... Mar. 11
Apr. 12 Akron, O. ..... Mar. 11
Apr. 12 Kentucky ..... Mar. 18
Apr. 13 Louisiana ..... Mar. 18
Apr. 15 Birmingham, Ala. ..... Mar. 18
Apr. 15 Birmingham, Ala. ..... Mar. 11
Apr. 15 Tarrant City, Ala. ..... Mar. 18
Apr. 20 Birmingham, Ala. ..... Mar. 11

Buildings—Commercial

Mar. 20 West Springfield (br. Springfield), Mass. ..... Mar. 4
Mar. 20 Fairfield, Ala. ..... Mar. 11
Mar. 22 Arapaho, Okla. ..... Mar. 11
Mar. 22 Williamsport, Pa. ..... Mar. 18
Mar. 22 Sykesville, Md. ..... Mar. 11
Mar. 24 Marquette, Mich. ..... Mar. 18
Mar. 24 Durham, N. C. ..... Mar. 18
Mar. 25 Morgantown, W. Va. ..... Mar. 18
Mar. 25 Anniston, Ala. ..... Mar. 4
Mar. 25 Chicago, Ill. ..... Mar. 18
Mar. 26 Charleroi, Pa. ..... Mar. 18
Mar. 29 Chicago, Ill. ..... Mar. 11
Mar. 30 Allentown, Pa. ..... Mar. 18
Mar. 31 Mobile, Ala. ..... Mar. 11
Adv. Mar. 11 and 18.
Apr. 1 Greenville, Miss. ..... Mar. 18
Apr. 1 Gulfport, Miss. ..... Mar. 4
Apr. 1 Lakewood (br. Cleveland), O. ..... Feb. 11
Apr. 1 Moline, Ill. ..... Jan. 14
Apr. 1 Youngstown, O. ..... Dec. 31
Apr. 6 Fresno, Calif. ..... Mar. 18

Buildings—Industrial

Apr. 8 Rome, N. Y. ..... Mar. 18
Adv. Mar. 18.

Buildings—Educational, Religious

Mar. 19 Dayton, O. ..... Feb. 25
Mar. 20 Melrose (Ind. br. Boston), Mass. ..... Mar. 18
Mar. 22 East Cleveland (Cleveland P. O.), O. ..... Mar. 4
Mar. 22 Berwick, Pa. ..... Mar. 18
Mar. 23 Hillside, Ill. ..... Mar. 11
Mar. 23 Ferndale (Br. Detroit), Mich. ..... Mar. 11
Mar. 23 Florida ..... Mar. 11
Mar. 24 New Brunswick, N. J. ..... Mar. 11
Mar. 24 San Francisco, Calif. ..... Mar. 18
Mar. 25 Omaha, Neb. ..... Mar. 18
Mar. 26 Nutley, N. J. (br. Newark). Mar. 11
Mar. 26 Cliffside Park (mail Cliffside), N. J. ..... Mar. 11
Mar. 26 Greensburg, Ind ..... Mar. 18
Mar. 26 Lincoln, Neb. ..... Mar. 18
Mar. 29 Fowler, Ind. ..... Mar. 11
Mar. 30 Aberdeen, S. D. ..... Mar. 18
Mar. 30 Corning, N. Y. ..... Mar. 18
Apr. 1 Duluth, Minn. ..... Mar. 18
Apr. 6 Hazelton, Pa. ..... Mar. 18
Apr. 14 Fordson (Detroit P. O.), Mich. ..... Mar. 4

Federal Government Work

Mar. 22 Remodeling — Lebanon, Pa. ..... Mar. 11
Mar. 22 Foundations—Dayton, O. .. Feb. 25
Mar. 23 Vestibule, etc. — Lima, O. ..... Mar. 11
Mar. 23 Deep Well—Northport, N. Y. ..... Mar. 11
Mar. 24 Vestibule, etc.—Joplin, Mo. Mar. 11
Mar. 24 Ash Handling Equipment — Great Lakes (br. Waukegan), Ill. ..... Mar. 4
Mar. 25 Storehouse—Baltimore, Md. ..... Mar. 11
Mar. 25 Roadway—Florence, Ala.. Mar. 4
Adv. Mar. 4 to 18.

Bids close — *See Eng. News-Record*

Mar. 25 Ejector Station—Staten Island, N. Y. ..... Mar. 11
Mar. 26 Remodeling — Torrington, Conn. ..... Mar. 11
Mar. 27 Remodeling—Fort Wayne, Ind. ..... Mar. 4
Mar. 29 Gates—Denver, Colo. ..... Mar. 4
Mar. 29 Vestibule—Lorain, O. ..... Mar. 11
Mar. 31 Remodeling—Lynn, Mass... Mar. 11
Mar. 31 Barges—St. Louis, Mo. ..... Mar. 11
Mar. 31 Foundation Pier—Milwaukee, Wis. ..... Mar. 18
Adv. Mar. 18.
Apr. 1 Cruiser, etc.—Wash., D. C. Feb. 25
Apr. 1 Remodeling—MsKeesport, Pa. ..... Mar. 18
Adv. Mar. 18.
Apr. 2 Driveway — Sheboygan, Wis. ..... Mar. 18
Apr. 6 Earthwork—Iowa ..... Mar. 18
Adv. Mar. 18.
Apr. 12 Dredging — Hartford, Conn. ..... Mar. 11
Adv. Mar. 11 and 18.
Apr. 16 Dredging—Galveston, Tex.. Mar. 18
Adv. Mar. 18.
Apr. 20 Turbine, etc.—Nebraska and Wyoming ..... Mar 18
Adv. Mar. 18.

Unclassified

Mar. 24 Fire Alarm System—Rochester, N. Y. ..... Mar. 4
Mar. 29 Lighting System—Elmhurst, Ill. ..... Mar. 11
Apr. 7 Sanitary Work, etc.—Ogdensburg, N. Y. ..... Mar. 18
Adv. Mar. 18.

Materials

Mar. 19 Rail, Timber, etc.—New York City, N. Y. ..... Mar. 11
Mar. 19 Lumber, Gravel, Stone, etc.—Indianapolis, Ind. ..... Mar. 11
Mar. 19 Cast Iron Pipe—Cleveland, O. ..... Mar. 11
Mar. 19 Sewer Pipe, Oil, etc.—New Haven, Conn. ..... Mar. 18
Mar. 20 Road Oil—Sturgeon Bay, Wis. ..... Mar. 4
Mar. 22 Pipe—Montreal, Que. ..... Mar. 4
Mar. 22 Paving Blocks, etc.—Akron, O. ..... Mar. 18
Mar. 23 Paving Blocks—Detroit, Mich. ..... Mar. 11
Mar. 23 Asphalt and Tar, etc. — Holyoke, Mass. ..... Mar. 18
Mar. 24 Asphalt Road Oil—Clayton, Mo. ..... Mar. 18
Mar. 24 Road Oil, etc.—Clayton, Mo. ..... Mar. 18
Mar. 25 Cast Iron Pipe, etc.—Quincy (Boston P. O.), Mass. ... Mar. 18
Mar. 26 Structural Steel—Atlanta, Ga. ..... Mar. 18
Mar. 27 Pipe, etc.—Toronto, Ont... Mar. 18
Apr. 2 Timber Piles—Albany, N. Y. ..... Mar. 18
Adv. Mar. 18.
Apr. 6 Lumber—Jones, La. ..... Mar. 4

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Waterworks

Proposed Work

Mass., Greenfield—Water Dept. plans repairing dam at Leyden Brook Reservoir. $60,000. E. M. Schneck, Town Hall, engr.

Mass., Quincy (Boston P. O.) — City Council authorized expenditure $600,000, water mains, 2 new steel tanks, one 1 m.g. capacity, located on ground, other 400,000 gal. capacity located on tower, also lowering one old tank 300,000 gal. capacity, and 8- to 20-in. c.i. pipe cement lined. Metcalf & Eddy, 14 Beacon St., Boston, consult. engrs. Noted Oct. 1.

Conn., New Haven — New York, New Haven & Hartford R.R. Co., taking bids 48, 54, 60 and 72 in. gate valves for use at Cos Cob, also c.i. pipe for Apr. 1 delivery. N. M. Rice, genl. purch. agt.

Conn., Putnam—Bd. Water Comn. plans storage reservoir and appurtenances, $117,000, mains in Mechanic St. $11,000, and in Main St. $25,000.

N. Y., Hamburg — Village making preliminary plans 2 m.g. filtration plant, incl. concrete spillway dam, 150 ft. wide, wing wall, c.i. pipe, rein.-con. settling basin, filter, heating plants, etc. $148,000. Engineer's name withheld.

N. J., Asbury Park—City Comn. plans 2 artesian wells and air compressor, pumps, etc. $46,000. N. Rogers, Asbury Park, engr.

N. J., Trenton—Mercer Co. plans 50,000 gal. tank and new pumps at Mercer Co. Workhouse, Moore's Station, here. $10,000. F. C. Carstarphen, 901 Edgewood Ave., engr.

Fla., Fort Myers — Election Mar. 23, $400,000 bonds, waterworks extensions and additions.

O., Barberton—R. L. Long, supt. Waterworks, takes bids about Mar. 25, extending mains in 25 streets in north and west end of city. $150,000.

Mich., Ann Arbor — Maury & Gordon, engrs., 53 West Jackson Blvd., Chicago, Ill., in conjunction with Hoad, Decker, Shoecraft & Drury, Ann Arbor, submitted report on water supply, here, for City.

Mich., Saginaw — Making preliminary estimates filtration and pumping station. Maury & Gordon, 53 West Jackson Blvd., Chicago, Ill., engrs. in conjunction with Hoad, Decker, Shoecraft & Drury, Ann Arbor.

Ill., Carthage—Making preliminary plans extending waterworks and sewerage systems. $85,000. Caldwell Eng. Co., 36 North Side Sq., Jacksonville, engrs.

Ill., Hillsboro — Voted $40,000 bonds, filtration plant connecting with water system. Holbrook, Warren & Van Prague, Milliken Bldg., Decatur, engrs. Noted Feb. 4.

Ill., Palatine—See "Sewers."

Wis., Green Bay—W. L. Kerr, city clk., soon takes bids new pump and motor for Shawano Ave. Pumping Station.

Mo., Forsythe—Voted $15,000 bonds, distribution system. Alexander Eng. Co., Woodruff Bldg., Springfield; engrs. Noted Feb. 25.

Mo., St. Louis—Making preliminary plans foundation and substructure for power plant, boiler house, coal receiving house, conveying house, pipe tunnels, etc., for Howards Bend Waterworks, on Missouri River. $325,000. A. Pritchard, City Hall, water comr.

Mo., Seymour — Making plans deep well, steel tank on tower, pumping equipment and 4- to 8-in. distribution mains. $300,000. A. H. Hendrick, Seymour, engr.

Tex., Marshall — Election soon $50,000 bonds, waterworks improvements. Engineer not announced.

Tex., Waco—Election in April $4,000,000 bonds, water storage reservoir on Bosque River, and improving filtration plant. V. G. Koch, Waco, city engr. Noted July 9.

Okla., Dawson—Election Mar. 24, $24,000 bonds, new waterworks to get water from Tulsa Spavinaw pipe line. Holway Eng. Co., Wright Bldg., Tulsa, engrs. Noted Oct. 22.

Calif., Coalinga — Plans election $25,000 bonds, mains and improving present water system.

Calif., Healdsburg — Plans to purchase 3,000 ft. 4 in. pipe hydrants, fittings, etc.

Calif., Rio Vista—Voted $16,250 bonds, c.i. mains, and $13,500 bonds, rebuilding present pump house and new equipment. Noted Mar. 4.

Calif., Tracy—Plans election $35,000 or more bonds, water and sewerage systems.

Ont., Windsor — Utilities Comn. plans enlarging filtration plant. $250,000. J. C. Keith, engr.

Bids Desired

Mass., Easthampton—Town, Bd. Selectmen, Town Hall, taking bids c.i. pipe, to be used on Hill Ave. and Main St. $7,500 appropriated.

Conn., New Britain — Apr. 12, by Bd. Water Comrs., City Hall, c.i. mains various streets, Contrs. J, K and L. J. D. Williams, city engr.; adv. E. N.-R. Mar. 18.

N. Y., Athens — Apr. 5, at office A. D. Peloubet, village clk., waterworks and sewerage system, M. Vrooman, Gloversville, engr.; adv. E. N.-R. Mar. 18.

N. Y., Oneida Castle (mail Oneida) — Mar. 29, by Bd. Water Comrs. city of Oneida, W. M. Baker, chn., 12,700 lin.ft. 6- to 16-in. mains, meter house, etc., here; and by Bd. Water Comrs., Sherrill-Kenwood Water Dist., S. R. Lenard, chn., 5,800 ft. 14 in. c.i. pipe line connecting above, here; adv. E. N.-R. Mar. 18.

See classified index on bids wanted on page 149

Time-Saving, *Strong* Concrete

Engineering News-Record Editorial Explains Value to Builders

"The value of this new suggestion," says an editorial in *Engineering News-Record,* February 18, p. 266, in commenting on the methods for producing quick-hardening, strong concrete in *3 days* with standard *Universal* cement, "lies in the possibilities it opens to the thinking concrete man, in the visualization it gives him of what can really be done with concrete if brains are mixed with it."

As pointed out in the *Engineering News-Record* editorial, these methods not only produce strong concrete quickly, but also result in a concrete which is much better and much stronger forever after.

Copy of brief illustrated circular describing the methods for securing this time-saving concrete with standard *Universal* cement, the same quality *Universal* as regularly used, furnished on request to

Universal Portland Cement Co.

Chicago—Pittsburgh—Minneapolis—Duluth—Cleveland—New York

Concrete for Permanence

Waterworks (Continued)

N. Y., Rome—See "Buildings—Industrial."

N. Y., Roslyn—Mar. 20, by Bd. Water Comrs. Roslyn Water Dist., 850 gal. motor driven single action triplex plunger pump, etc. S. B. Browne, Mineola, engr.; adv. E. N.-R. Mar. 18.

Pa., Claysville—Apr. 5, by Boro Council, J. L. Melvin, secy., storage reservoir, filter plant, filter plant building, c.i. pipe, etc. D. C. Morrow, 62 East Wheeling St., Washington, engr.

Md., Preston—Mar. 26, by City Comrs., J. O. Wright, secy., alternate 50 m.g. or 75 m.g. steel water tanks, on 100 ft. steel tower. Kastenhuber & Anderson, Easton, engrs.; adv. Mar. 18. Noted Jan. 28.

N. C., Belmont—Mar. 20, by Mayor, 10,500 lin.ft. 8 in. c.i. pipe, 10,000 lbs. c.i. specials, etc. Carolina Eng. Co., Charlotte, engrs.

Fla., Kissimmee—See "Sewers."

O., Berea—Mar. 31, by H. D. Banks, clk. Bd. Trustees Pub. Affairs, improving water distribution system. G. Champe, Toledo, consult. engr.; adv. E. N.-R. May 18.

O., Cincinnati — Mar. 23, by Comrs. Hamilton Co., constructing Water Supply Line 24, Dist. 2 (White Oaks 2nd Contr.), 43,332 ft. 6- to 10-in. c.i. pipe, 18 tons casting, etc., $105,776; also Water Supply Line 29, Dist. 3 (Golf Manor), 18,587 ft. 4 and 6 in. c.i. pipe, etc., $44,894. L. C. Boyatt, Court House, engr.

Ill., Chicago—Mar. 23, by City, Room 406, City Hall, 1,200 Chicago standard gate valves, 3- to 12-in. and certain repair parts to various city pipe yards. A. A. Sprague, comr.

Ill., East St. Louis — See "Contracts Awarded."

Wis., Marshfield—Mar. 26, by Bd. Pub. Wks., J. A. Schindler, secy., 9,496 ft. 6 in. B. & S. mains in various streets.

Wis., Milwaukee—Mar. 23, by Central Bd. Purchases, J. W. Nicholson, ch. buyer, 2,279.705 tons 36- to 48-in. plain straight and 94.5 tons lugged c.i. pipe, also 71.664 tons special castings for same, to Water Dept.

Minn., Mankato — Mar. 29, by F. W. Bates, city clk., 1 m.g. rein.-con. reservoir. $20,000. L. P. Wolff, 903 Globe Bldg., St. Paul, engr. Noted Oct. 29.

Mo., St. Louis—Apr. 6, by Bd. Pub. Serv., 208 City Hall, four 460 hp. boilers $15,000, also sheet steel breeching in boiler room $6,000, both for Bissells Point Station. E. E. Wall, dir.

Mo., St. Louis—Mar. 22, by G. J. Dietz, comr. Supply, City Hall, 60 controllers, 20 tables, etc. for filter plant at Howards Bend, St. Louis Co. $65,000. E. E. Wall, dir.

Ont., Toronto—See "Materials."

Ont., Windsor—Water Comrs., c/o W. A. Hanrahan, secy., City Hall, taking bids one 12 m.g. 175-ft. total lift centrifugal pump both motor and condensing steam turbine drive. Noted Mar. 4.

Bids Received

N. Y., Brooklyn—Park Bd., F. P. Gallatin, pres., Arsenal Bldg., Central Park, 5th Ave. and 46th St., New York City, Mar. 11, vitr. and c.i. drains at Atlantic Ocean Terminus, Ocean Parkway, here, from M. J. O'Hara, 557 3rd St., $21,575. Noted Mar. 4.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., Mar. 12, mains, transferring taps, rearranging connections and setting additional valves, etc. in Battery Park, Riverside Dr., River Rd., 5th, 9th, Payson, St. Nicholas, 7th and 12th Aves., Church, Dyckman and East Sts., etc., from Draganette Constr. Co., 1123 Clinton Ave., $43,435. Noted Mar. 11.

N. Y., St. George — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Mar. 12, mains in Bloomingdale Rd., Bronx and Johnson Pls., Burnside, Cedar Geldner, Halpin and Hitchcock Aves., Atlantic, Brabant, and 3rd Sts., here, from Empire Contg. Co., 21 Park Row, New York City, $13,988. Noted Mar. 11.

Mich., Detroit—Dept. Water Supply, Mar. 9, 41,892 lin.ft. 6- to 12-in. mains, etc., in various streets, Contr. 1926-1, and 35,075 lin.ft. Contr. 1926-2, from J. W. Toyne, South Bend, Ind., $25,649 and $21,896 respectively; also 36,590 lin.f.t 6- to 12-in. mains, Contr. 1926-3, from R. D. Baker, 1631 Elmhurst Ave., $21,154. Noted Mar. 4.

Minn., Minneapolis — F. S. Gram, city purch. agt., Mar. 1, from H. Mueller Mfg. Co., Decatur, Ill., four thousand ¾ in. curb cocks at $1.90 each, two hundred 1 in., $2.20, one hundred ¾ in. inverted $1.40, one hundred 1 in. inverted $1.76, also four thousand ⅝ x ¾ in. corporation cocks $0.75, and ¾ x 1 in. $0.95. Noted Feb. 25.

Calif., Laguna Beach—From Nicoll & Co., Garland Bldg., Los Angeles, c.i. pipe, 650 tons 4 in. $48.75 per ton, 600 tons 6 in. $47.25, 285 tons 8 in. $47.25, 495 tons 12 in. $47.25, 250 tons 16 in. $47.25, 245 tons 20 in. $46.25, 1,085 tons 24 in. $46.25, from U. S. Cast Iron Pipe & Fdry. Co., Wright & Callender Bldg., Los Angeles, 30 tons "C" and 40 tons "D" fittings, $100 per ton. Noted Nov. 26.

Contracts Awarded

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in DeKalb, Forbell, Foster, Georgia, Livonia Aves., Avenues S and T, etc., here, to Dragonetti Constr. Co., 1123 Clinton Ave., New York, $11,470. Noted Mar. 11.

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in 22nd and 45th Drs., 22nd Rd., Hopkins, Washington and 60th Aves., etc., here, to S. Gallucci & Sons, Inc., 38 Railroad Ave., Corona, $4,389. Noted Mar. 11.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, small pipe lines, Contr. 796, to M. and J. B. McHugh, 892 North Markoe St., $95,685, and electrical receiving equipment for Queen Lane Booster Station, Contr. 799, to Keystone State Piping & Equipment Co., 2849 Germantown Ave., $34,750. Noted Mar. 11.

Md., Baltimore—Mayor and City Council, excavating trenches and laying mains for Bureau Water Supply, to Ligon & Ligon, 2 East Lexington St., Baltimore, $59,856.25.

Ill., East St. Louis — East St. Louis & Interurban Water Co. will construct 17,600 ft. 12 in. c.i. mains from pumping station at Edgemont to Belleville, by day labor. $75,000. Private plans.

Ill., Springfield — City Clerk, 17 m.g. centrifugal pump, to Worthington Pump & Machy. Co., 115 Bway., New York City, $5,625. Noted Jan. 14.

N. D., Linton—Waterworks and sewerage system, to Phelps-Drake Co., 623 Metropolitan Life Bldg., Minneapolis, Minn. $50,949.

Mo., St. Louis—See "Unclassified."

Okla., Lawton — Filter plant improvements, to International Filter Co., 333 West 25th Pl., Chicago, Ill., $14,750. Noted Apr. 16.

Wash., Seattle—Bd. Pub. Wks., mains in Melrose Ave. and Melrose Ave. N., to Interstate Constr. Co., 1713 22nd Ave. S., $44,051. Engrs. est. $34,873. Noted Mar. 11.

Calif., Mountain View—See "Streets and Roads."

Sewers

Proposed Work

Mass., Greenfield—Plans sanitary sewer in northern section town. $60,000. E. M. Schneck, Town Hall, engr.

W. Va., Charlestown—Election Apr. 6, $125,000 bonds, sewers in various streets. D. C. Dolly, city clk.

Fla., Fort Myers — Election Mar. 23, $815,000 bonds, sewers, etc., in various streets.

Tenn., Mt. Pleasant—Plans election $60,000 bonds, sewerage system.

Mich., Detroit—Dept. Pub. Wks. made plans, brick or concrete sewer in 7 mi. Mill Rd. from River Rouge to Puritan Ave., and 7,500 ft. intercepting sewer in Jefferson Ave. from Connors Creek Pumping Station to Helen Ave.; also dredging 16,000 cu.yd. Fox Creek from Detroit River to Ashland Ave. for relief of Fox Creek drainage. P. A. Fellows, City Hall, engr.

Mich., Detroit — Dept. Pub. Wks. made plans lateral sewers 19,239 ft. in Lateral Sewer 4491 in blocks between Greenfield, Hubbell, Grand River and Fenkell Aves.; 11,855 ft. Lateral 4496 between Cruse, Monnier, Lyndon and Ferndale Aves.; 1,485 ft. Lateral 4500 between Lemay, Springfield, Shoemaker and Hern Aves.; 1,428 ft. Lateral 4533 in Freeland Ave. from Tireman to Grand River Aves.; 7,569 ft. Lateral 4538 between Everts, Grayton, Harper and Robinwood Aves.; 1,152 ft. Lateral 4545 in blocks north of Jefferson and east of Delray Aves.; 1,473 ft. Lateral 4548 between Greenfield, Prest, Tyler and Schoolcraft Aves.; 2,826 ft. Lateral 4549 in blocks between Van Dyke, Kempa, Desgrandschamp and Yolanda Aves.; 28,794 ft. Lateral 4550 between Schaefer, Manor, Tireman and Boneparte Aves.; 3,762 ft. Lateral 4551 between Seven Mile Rd., Van Dyke, Antwerp and Suzanne Aves.; 1,665 ft. Lateral 4553 between Mound, Charles and Marshall Aves.; 4,561 ft. Lateral 4561 between Ardmore, Leasure, Fenkell, and Pilgrim Aves.; 2,332 ft. Lateral 4563 in Marlow Ave. from Tyler to Schoolcraft Aves., and 1,817 ft. Lateral 4565 Archdale Ave. from Turner to Grand River Aves., etc. P. A. Fellows, City Hall, engr.

Mich., Detroit—Wayne Co. plans approximately 3½ mi. concrete covered sewer draining 5,000 acres in vicinity of Eight Mile Rd. east of Woodward Ave. emptying into Connors Creek Sewer, here. Oakland and Macomb Counties appropriate toward cost. G. A. Dingeman, County Bldg., drain comr.

Ill., Carthage—See "Waterworks."

Ill., Chicago—Sanitary Dist. of Chicago, 910 South Michigan Ave., takes bids about Apr. 15, sludge beds for Calumet sewage treatment plant. $125,000.

Ill., Chicago—Sanitary District of Chicago, soon takes bids 11,000 ft. 3½ x 5 ft. and 2,600 ft. 27 in. concrete sewers in Roosevelt Rd. in Broadview (mail Bellwood). $400,000. O. L. Eltinge, 910 South Michigan Ave., engr.

Ill., Libertyville—Village Clerk takes bids about Apr. 15, outlet sewers and sewage treatment plant. $90,000. Kelker & De Leuw, 111 West Washington St., Chicago, engrs.

Ill., Palatine—Plans sewerage and waterworks in McIntosh and Merrill Subdivisions. $230,000. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs.

Wis., Fond du Lac—J. F. Hohensee, city clk., purchased site and plans sewage disposal plant. $50,000. G. H. Stanchfield, City Hall, engr.

Mo., Clayton—J. Harnage, secy. Northwest Maplewood Sewer Dist., postponed opening bids Mar. 1, 500 cu.yd. rock excav., 16,500 cu.yd. earth excav., 1,700 cu.yd. channel change, 1,072 ft. 42 and 48 in. segmental block, and 24,440 ft. 8- to 36-in. vitr. clay pipe, and 56,300 lb. c.i., etc. A. H. Beard Eng. Co., 7370 Manchester Ave., Maplewood, engrs. Noted Jan. 28.

Mo., Kennett — Takes bids in summer sanitary sewerage system. $45,000. W. R. Heagler & Sons, Paragould, Ark., engrs.

Tex., Brady—Making plans and soon take bids complete sewerage system and disposal plant. $100,000. E. A. Burrows, Brady, engr. Noted Dec. 31.

Tex., San Benito—Election Apr. 6, $100,000 bonds sewerage system. Address S. Brown, mayor.

Tex., San Saba — Voted $60,000 bonds complete sewerage system. Municipal Eng. Co., 1107 Athletic Club Bldg., Dallas, engrs. Noted Jan. 28.

Okla., Olustee—Made preliminary plans new sanitary sewerage system. $25,000. J. P. Randal, mayor. Engineer not selected.

Wash., Seattle—Voted $2,125,000 bonds, intercepting sewerage system carrying all sewage now dumped into Lake Washington into Puget Sound. J. D. Blackwell, city engr. Noted Feb. 4.

Ore., Klamath Falls — Plans election $350,000 bonds, city improvements, incl. sewage disposal plant, viaduct over crossing, 1.5 mi. paving and street lighting system. Engineer not selected.

Calif., North Sacramento—City rescinded contract for 62,700 lin.ft. 6- to 15-in. vitr. sewers in various streets. $70,000 or more. Will readvertise. Noted June 4.

Calif., Redding—Plans election $100,000 or more bonds, sewage disposal plant.

Calif., San Bernardino—See "Streets and Roads."

Calif., Tracy—See "Waterworks."

Ont., Toronto — East York Twp. plans 3,000 ft. 12 in. vitr. clay sewers in Monarch Park, Prestholme, Coleridge, Harsard, and Baker Aves. $25,000. G. R. Jack, 443 Sammon Ave., engr.

Ont., Toronto—York Twp. plans 6,100 ft. 8 in. and up vitr. clay sewers in Kirknewton Rd., North Cliffe Blvd., Kane, Hunter and Ossington Aves. $40,000. F. B. Goedike, 40 Jarvis St., engr.

Bids Desired

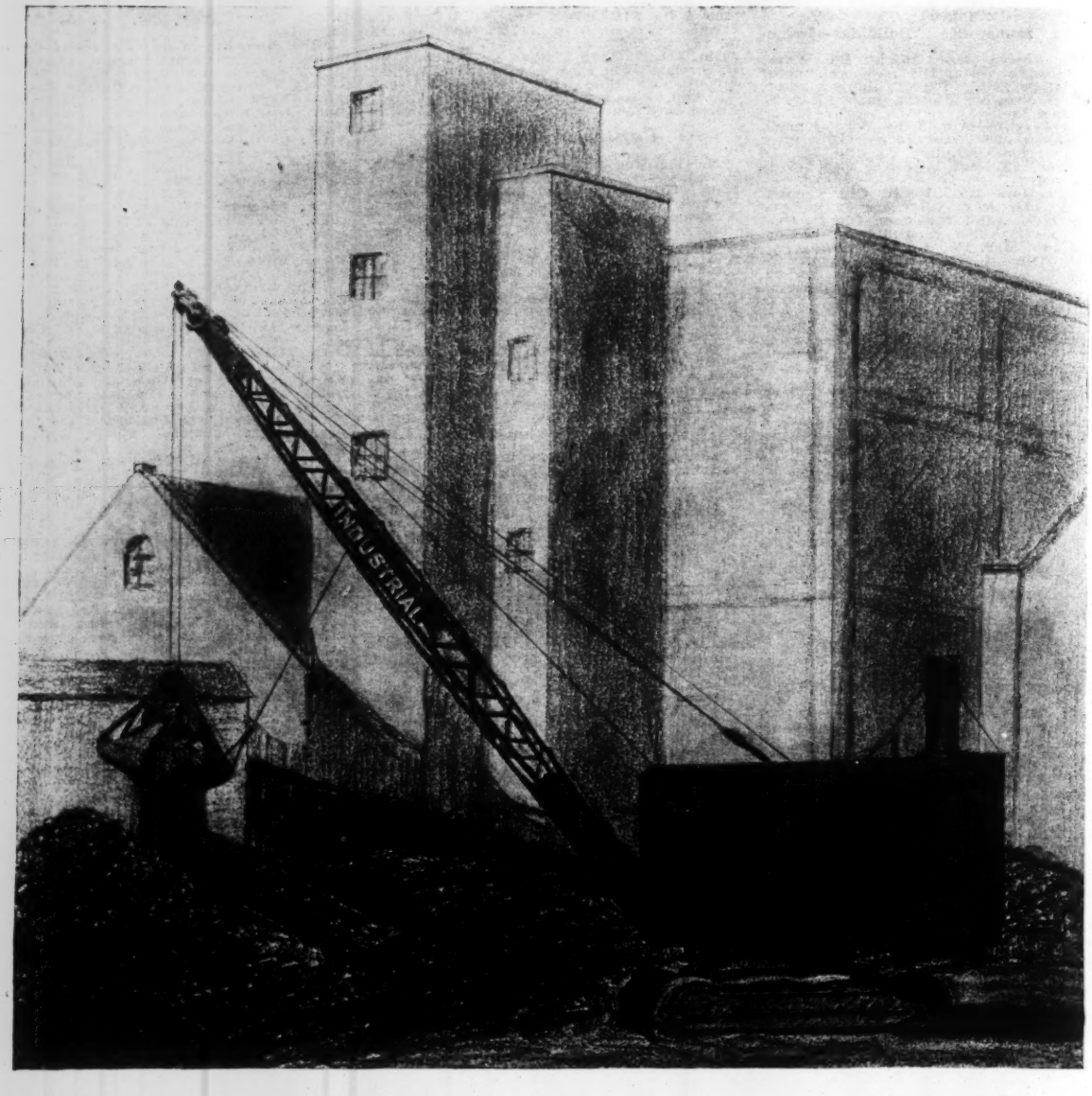
N. Y., Athens—See "Waterworks."

N. Y., Buffalo — Apr. 12, by Commissioner Pub. Wks., Municipal Bldg., rein.-con. storm water overflow drain, also rein.-con. and vitr. segmental block storm water and sanitary sewer; adv. E. N.-R. Mar. 18.

N. Y., New York — Mar. 25, by W. J. Flynn, acting pres. Bronx Boro, Crotona Park, Tremont and 3rd Aves., storm water drains in Adee Ave., and East 222nd St.; receiving basins, etc. on Stell Pl., Waring and Loconia Aves.; sewers in East 222nd, Tiffany, Truxton, East 156th Sts., Randall, Waring, and Yates Aves., etc.

Pa., Phila.—Mar. 31, by Dept. Pub. Wks., Bureau of Engineering, 1 story, basement and sub-basement, 64 x 139 ft., brick and steel encased in concrete, pumping station, at Northeast Sewage Treatment Works, Wheatsheaf Lane east of Richmond St. G. H. Biles, dir.

W. Va., Morgantown—Mar. 23, by W. E. Brooks, city mgr., sewerage system, incl. 6,512 ft. sanitary and 5,296 ft. lateral sewers, etc. C. W. McDowell, city engr.



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Sewers (Continued)

Fla., Kissimmee—Apr. 2, by City Comn., sanitary and storm sewers and extending waterworks in various streets. Ramsey-Herndon & Co., Orlando, engrs.; adv. E. N.-R. Mar. 18. Noted Dec. 24.

La., Baton Rouge — Mar. 24, by Comn. Council, 4,544 lin.ft. vitr. sewers, etc., in McCall and Lake Hills subdivision. J. W. Billingsley, Baton Rouge, consult. engr.

Tenn., Knoxville — See "Streets and Roads."

Ky., Bromley — Apr. 8, by Bd. Town Trustees, sewerage system; adv. E. N.-R. Mar. 18.

O., Ashtabula — Apr. 3, by Bd. Comrs. Ashtabula Co., sewage treatment plant, incl. 11,000, ft. 20 in. and 9,500 ft. 24 in. c.i. pipe. R. F. MacDowell, 1770 East 11th St., Cleveland, engr.

O., Brooklyn Heights (mail Independence)—Mar. 24, by Bd. Comrs. Cuyahoga Co. (Cleveland), sewage treatment plant, here. To exceed $25,000. F. Williams, Court House, Cleveland, engr.

Mich., Muskegon—I. R. Ellison, city mgr., taking bids 8,500 ft. 8 and 10 in. S. S. vitr. pipe, 3,380 ft. 12 to 20 in. D. S. pipe, 970 ft. 27 to 36 in. D. S. vitr. or concrete pipe; seventy 10 in. two hundred fifty 8 x 6 in. Y's and 6 in. stoppers one hundred 8 in. elbows, and fifty 8 in. bends. H. J. Lewis, City Hall, engr.

Ill., Chicago—See "Streets and Roads."

Ill., Chicago — Mar. 23, by Bd. Local Impvts., tile and brick sewers, etc., in Peoria St., Normal Ave. and California Ave. system, and 68th St. system. $145,000. H. E. Hudson, Room 207, City Hall, engr.

Ill., Lake Forest — See "Streets and Roads."

Wis., Milwaukee—Mar. 23, by Dept. Pub. Wks., vitr. and monolithic concrete storm and sanitary sewers in 18 streets.

Minn., St. Paul — Mar. 23, by A. E. Eggert, city purch. agt., 13,852 lin.ft. 12- to 66-in. pipe, etc. in St. Paul Ave. Sewer 2, Div. B. $80,000. G. M. Shepard, city engr. Noted Oct. 15.

Tex., Alice — Mar. 23, by City, sewer improvements, extending mains, etc. $50,000. J. H. Briggs, 2033 North Nueces St., San Antonio, engr. Noted Jan. 7.

Wash., Longview — Mar. 25, by City Comrs., sewers in L. I. D. 14, 2,770 cu.yd. backfill and excav., 6,930 ft. 8- to 15-in. concrete pipe, etc. T. H. Davis, Longview, engr.

Wash., Seattle—Mar. 26, by City Comrs., sewers in L. I. D. 15, 750 cu.yd. excav. and backfill, 2,840 ft. 10 and 12 in. concrete pipe, etc.; L. I. D. 12, 31,800 cu.yd. excav. and backfill, 47,950 ft. 6- to 30-in. concrete pipe, etc.; and L. I. D. 13, 1,350 cu.yd. excav. and backfill, 4,220 ft. 10 and 12 in. concrete pipe, etc. T. H. Davis, Longview, engr.

Calif., Los Angeles—Bd. Pub. Wks. taking bids 13,571 ft. 8 and 10 in. cement, and 15,897 house sewers, etc., in Arlington, 2nd and 3rd Aves. J. C. Shaw, City Hall, engr.

Ont., Toronto — Mar. 23, by T. Foster, mayor, City Hall, for 5,000 ft. 8 in., etc. vitr. tile and trunk sewers in Sydenham St., Oriole Parkway, Lane 1st West of Spadina, Lane 1st North of Gerrard St., Tranmer and Eastbourne Aves., also Chaplin Crescent (Sect. BC). $50,000. R. C. Harris, City Hall, engr.

Bids Received

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., Mar. 6, storm sewer tunnel in 26th St., from Wenzel & Henoch Constr. Co., 498 27th St., $130,501. Noted Mar. 4.

Calif., Gilroy — From Oakland Sewer Constr. Co., Builders Exch. Bldg., Oakland, sewers in various streets, 5,600 ft. 12 in. vitr. pipe $0.83 per ft., 3,000 ft. 10 in. $0.68, 2,500 ft. 8 in. $0.57, also 100 ft. 12 in. c.i. $3.40, etc. Noted Mar. 4.

Calif., Los Angeles — See "Streets and Roads."

Contracts Awarded

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, temporary sanitary sewer in Guyon and Adelaide Aves., Hylan Blvd., Mill Rd., and 6th St., all in New Dorp., Oakwood and vicinity, to Hammen Constr. Co., 279 Madison Ave., Perth Amboy, N. J., $68,136. Noted Feb. 18.

Pa., Pittsburgh—Sewers in Greenway Dr., to M. O'Herron Co., South McKean St., South Pittsburgh, $39,315. Engrs. est. $40,000. Noted Feb. 11.

Md., Baltimore—Bd. Awards, 4,600 lin.ft. 6 in. underdrain, 2,180 lin.ft. 6½ ft. x 3 in. to 7 ft. x 4½ ft. brick and concrete, 5,750 lin.ft. 24- to 54-in. rein.-con., and 4,530 lin.ft. 15- to 21-in. vitr. sewer in Sewer Dists. G-2, G-13 and P-9, to D. C. McAleer, Phoenix Bldg., $137,570. Noted Mar. 11.

Tenn., Dickson — For 12 mi. sewers in various streets, sewage disposal plant, etc., to Sherman Machine & Iron Co., 18-32 East Main St., Oklahoma City, $74,160. Noted Feb. 18.

Mich., Royal Oak (br. Detroit)—Triangle Development Co., 26,000 ft. 12- to 24-in. vitr. and concrete sewer, etc. in Huntington Woods Manor, Royal Oak Twp., to Michigan Constr. Co., Penobscot Bldg., Detroit, $62,376. Noted Feb. 25.

Ill., Chicago—Sanitary Dist. of Chicago, 910 South Michigan Ave., Div. T. North Side Sewerage Treatment Works, 295 lin.ft. 11 ft. effluent conduit, etc., to L. B. Fugitt, 1432 Jonquil Tr., $80,030.

Wis., Milwaukee—Metropolitan Sewerage Comn., 508 Market St., to G. E. and L. Zimmermann, 3402 Grand Ave., main sewer in 4th Sect. Cudahy Sewer, 4,910 ft. 36 in. concrete pipe at $21.37 per ft., 7,315 ft. special section concrete sewer $21.27, 665 vertical ft. standard manholes $25, and 270 vertical ft. drop manholes $29, total $284,971.

Wis., Two Rivers—R. Biehl, city mgr., 2,400 ft. 6 in., 1,200 ft. 10 in., 2,400 ft. 12 in., 1,800 ft. 15 in. and 1,000 ft. 18 in. vitr. sewer pipe, to W. S. Dickey Clay Mfg. Co., 111 West Washington St., Chicago, Ill., $4,632. Noted Feb. 18.

N. D., Linton—See "Waterworks."

Mo., St. Louis—See "Unclassified."

Tex., Corpus Christi—Laying sewer lines, to Kirkwood Wharton & Lee, 456 Main Ave., San Antonio, $90,752; constructing outfall sewer, to J. De Puy, Builders Exch. Bldg., San Antonio, $70,988; furnishing pipe for sewer, to San Antonio Sewer Pipe Co., Bedell Bldg., San Antonio, $65,800. Grand total $227,540. Noted Feb. 18.

Tex., Littlefield—Complete sewerage system and disposal plant, to A. Roydrick, Plainview, $54,000. Noted Dec. 17.

Waste Disposal

Proposed Work

R. I., Providence—City, Pub. Wks. Dept., City Hall, plans incinerator plant. To exceed $50,000.

Fla., Fort Myers—Election Mar. 23, $45,000 bonds, incinerator.

Bridges

Proposed Work

Connecticut—State Hy. Dept., Hartford, plans repairing bridge over Connecticut River between Thompsonville and Suffield. $50,000. J. A. MacDonald, comr.

N. Y., Buffalo—State Hy. Dept., Albany, A. W. Brant, comr., plans steel truss highway bridge over Erie Canal, Hudson St., here. $93,000.

Wis., La Crosse—Making plans 160 ft. rein.-con. bridge on 2 concrete abutments and 3 concrete piers, etc., on Copeland Ave. $75,000. C. C. Congdon, City Hall, engr.

Missouri—Missouri, Kansas & Texas R.R. Co., Ry. Exch. Bldg., St. Louis, soon takes bids replacing 670 ft. trestle bridge, etc. on Northern lines, $45,000; and approximately 1,705 ft. at various points on Texas lines, $100,000. F. Ringer, ch. engr.

Tex., Houston — City and Houston & Texas Central Ry. Co., operated by Southern Pacific R.R., 65 Market St., G. W. Bosehke, ch. engr., making plans underpass under Houston & Texas Central R.R. tracks, at Heights Blvd. $250,000. J. C. McVea, Houston, city engr.

Tex., Marlin—See "Streets and Roads."

Oklahoma—State Hy. Dept., Oklahoma City, made surveys 4 span 440 ft. steel truss bridge on pile piers over north fork Red River, east of Granite, Greer Co., $60,000; 1 span 90 ft. steel truss bridge on concrete piers over Elk Creek, west of Hobart, Kiowa Co., $30,000; and 1 span 100 ft. steel truss bridge on concrete piers over West Cache Creek, at Hollister, Tillman Co., $30,000. J. M. Page, highway engr.

Nev., Reno — Making plans bridge over Truckee River, at Center St. $140,000. City appropriates $70,000 and property owners $70,000 toward cost. King & Malone, Cladianos Bldg., engrs. Noted Jan. 21.

Ore., Klamath Falls—See "Sewers."

Bids Desired

New Jersey—Apr. 5, State Hy. Comn., Trenton, 12 ft. and 30 ft. bridges over branches of Raritan River, on State Highway Route 9, at M. P. 16.3 and 17, Hunterdon Co. A. L. Grover, secy.; adv. E. N.-R. Mar. 18.

Pa., Millgrove (Roaring Creek P. O.)—Mar. 22, at office W. A. Arter, controller Westmoreland Co., Greensburg, two 55 ft. concrete and steel span bridge, etc. over Big Sewickley Creek, on State Highway Route 118, here.

North Carolina — Mar. 30, by State Hy. Dept., Raleigh, rein.-con. bridges, etc. on Project 398, Robeson Co. $46,000, Project 244, Jones Co. $46,500, Project 574, Moore-Montgomery Counties $26,000, Project 480, Wake Co. $40,000, Project 591, Rockingham Co. $57,500, Project 6690, Rowan Co. $52,500. C. M. Upham, Raleigh, engr.

Georgia — Apr. 2, by State Hy. Dept., East Point, (**F. A. P. means Federal Aid Project**), 2 bridges on Columbus-Macon Rd., F. A. P. 445-A, Talbot Co., 33,051 lb. reinforcing, etc.; 3 bridges and 4 culverts on Dublin-Ironton Rd., F. A. P. 435, Laurens Co., 576 ft. untreated timber, 99,315 lb. reinforcing, etc.; 1 bridge over Otter Creek, on Fitzgerald-Abbeville Rd., F. A. P. 419-A, Ben Hill Co., 930 ft. piling, 31,448 lb. reinforcing, etc.; 1 bridge on Marietta-Cartersville Rd., F. A. P. 413-B, Cobb Co., 23,300 lb. reinforcing, etc.; 3 bridges and 1 culvert on LaGrange-Chiply Rd., F. A. P. 324-B, Troup Co., 844 ft. untreated piling, 116,050 lb. reinforcing, etc.; 1 bridge over Pughs Creek and 1 over Big Creek, Laurens Co., 2,586 ft. untreated piling, 131,350 lb. reinforcing, etc.; 4 bridges near Brunswick, F. A. P. 432-C, Glynn Co., 852,490 ft. timber, 6,488 lb. reinforcing, etc. W. R. Neel, highway engr.

Miss., Gulfport—Apr. 6, by Bd. Supervs. Harrison Co., 970 ft. temporary removable pile trestle bridge, 16 ft., 2 lift spans 25 ft. each, etc. over Back Bay of Biloxi at crossing of Old Spanish Trail, Beat 1, to be used during erection of north approach to concrete bridge. E. McManus, chancery clk.

O., Dayton—Mar. 26, by Comrs. Montgomery Co., 100 ft. single span steel truss highway bridge, 20 ft., on concrete abutments over Holes Creek, in Washington Twp. $45,000. W. O. Pease, Dayton, co. engr.

Illinois — Mar. 31, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, 112 ft. steel span overhead railroad crossing, on Route 2, Sect. 11-B, Union Co., 151,890 lb. reinforcing; 60 ft. span concrete girder bridge on Route 13, Sect. 4-B, Saline Co.; 19 ft. span concrete slab bridge, 20 ft. wide, 160 ft. concrete substructure, incl. temporary road and bridge, paving 1,068 sq.yd. Route 24, Sect. 14-B, and 160 ft. span steel superstructure on Route 24, Sect. 14-C, 179,060 lb. reinforcing, all Sangamon Co.; concrete substructure for 2 span 100 ft. and 3 span 200 ft. steel superstructure, on Route 33-A, Sect. 2-B, Menard Co.; 2 span 100 ft. and 3 span 200 ft. steel superstructure, on Route 43-A, Sect. 2-C, Menard Co., 1,440,910 lb. reinforcing; sidewalks on Route 36, Sect. 10-D, Adams Co. F. T. Sheets, highway engr.

Wisconsin—See "Streets and Roads."

North Dakota — Apr. 22, by State Hy. Dept. and Comrs. McKensie Co. (Schafer), Williams Co. (Williston) and Mountrail Co. (Stanley) at Court House, Schafer, concrete and steel bridge on Federal Aid Project 301-A at Sanish; and one on Federal Aid Project 302-A, near Williston, both over Missouri; adv. E. N.-R. Mar. 18. Noted Aug. 13.

Tex., Galveston—Mar. 25, by C. C. Washington, engr., Galveston, one 40 ft. simple steel span bridge with 20 ft. I-beam creosoted pile approach and about 900 ft. lin.ft. creosoted pile trestle across Dickinson Bayou, for Galveston Co. $28,000.

California—Mar. 29, by State Hy. Comn., Forum Bldg., Sacramento, thirty-six 38 ft. span reinforced concrete girder bridge over Santa Maria River, north of Santa Maria, San Luis Obispo Co. R. M. Morton, Forum Bldg., Sacramento, highway engr.

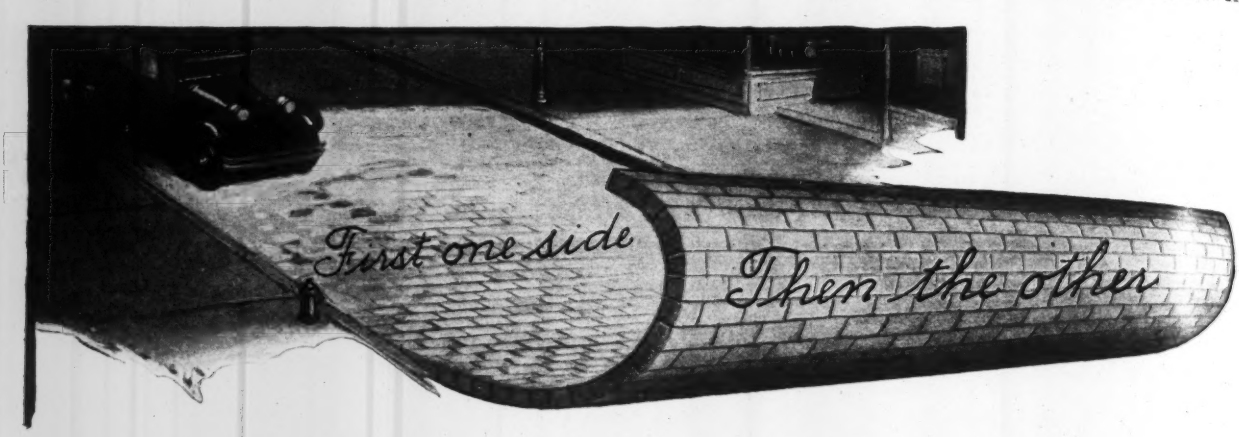
Calif., Los Angeles—Bd. Pub. Wks. taking bids 1,580 ft. rein.-con. viaduct incl. approaches, river portion consists of three 80 ft. arch spans and 21 bents. To exceed $1,000,000. City, Los Angeles Co. (Los Angeles), Los Angeles Ry. Corp., Union Pacific R.R., 1416 Dodge St., Omaha, Neb., R. L. Huntley, ch. engr., and Atchison, Topeka & Santa Fe Co., 80 East Jackson Blvd., Chicago, Ill., C. F. W. Belt, ch. engr., finance project. Noted Nov. 5.

Calif., San Pablo—Apr. 5, by State Hy. Comn., Forum Bldg., Sacramento, three 34 ft. span rein.-con. bridge over San Pablo Creek, here. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Bids Received

Delaware—State Hy. Dept., Dover, Mar. 10, bridge over Broadkill Creek, Contr. 53-B, from A. S. Fox, 15 West Side Building & Loan Bldg., Dayton, O. $35,835. Noted Feb. 18 under "Streets and Roads."

Louisiana — State Hy. Comn., Baton Rouge, Mar. 9, reconstructing and repairing bridge over Calcasieu River, on Lake Charles-West Lake Highway, State Project



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Advocate

VITRIFIED Brick PAVEMENTS

OUTLAST THE BONDS

NATIONAL PAVING BRICK MANUFACTURERS ASSOCIATION, ENGINEERS BLDG., CLEVELAND, OHIO

Bridges (Continued)

461, Calcasieu Parish, from Southern Eng. Co., Logansport, $91,227. Noted Feb. 18.

Tex., San Antonio—City, J. W. Tobin, mayor, City Hall, 83 ft. rein.-con. and steel bridge, 43 ft., across San Antonio River, on Market St., from Pryor & Jeffrey, c/o Builders Exch. Bldg., $35,400. Noted Jan. 27.

Colorado—See "Streets and Roads."

California—State Hy. Dept., Sacramento, Mar. 1, **(e. e. means engineers estimate)**, rein.-con. bridge over Doney Creek, 1 mi. south of Antler, Shasta Co., from Boardwell & Zimmerman, Napa, $79,925, e. e. $82,834; one over Bear Creek at Briceburg, Mariposa Co., from Smith Bros., Eureka, $25,817, e. e. $31,060; one over Slate Gulch, and one over Sweetwater Creek, Mariposa Co., from Noble Bros., San Jose, rein.-con. $18,487 e. e. $21,637, masonry facing $19,286 e. e. $24,822. Noted Feb. 18.

Contracts Awarded

Mass., Boston — Dept. Pub. Wks., steel and concrete electric ferry bridge, North Ferry, to J. E. Ogden Co., 147 Cedar St., New York City, $132,800. Noted Dec. 31.

Virginia—See "Streets and Roads."

North Carolina — State Hy. Comn., Raleigh, to C. R. Willard & Son, Spartanburg, S. C., rein.-con. bridge, etc. on Project 838, Henderson Co., 18 cu.yd. Class "AA" concrete at $33.50 per cu.yd. 638 cu.yd. Class "A" concrete $27.25, 93,200 lb. reinforcing $0.06, total $25,435. Noted Feb. 4.

Florida — State Rd. Dept., Tallahassee, Jupiter River Bridge, Project 656, Palm Beach Co., to Concrete Steel Bridge Co. of Florida, 513 Meriden St., Miami Beach, $250,632; Ocklockonee River Bridge, Project 672-B, Leon and Gadsden Counties, to E. Pettus, Montgomery, Ala., $78,090; bridge on Project 641-B, Palm Beach Co., to Concrete Steel Bridge Co., Miami Beach, $140,188. Grand Total $468,910. Noted Feb. 11 under "Streets and Roads."

Alabama—State Hy. Comn., Montgomery, several small concrete bridges on Kimbrough-Clark Co. line Rd., Wilcox Co., to Lamb & McLemore, Eutaw, $44,681, engrs. est. $46,000; 75 ft. double leaf trunnion bascule channel draw span bridge Tennessee River, at Decatur, Morgan and Limestone Counties, to Mount Vernon Bridge Co., Mount Vernon, O., $114,840, engrs. est. $130,000. Noted Feb. 25.

Miss., Quitman—See "Streets and Roads."

O., Cleveland—Cleveland Union Terminal Co., Marshall Bldg., 1 span 850 ft. concrete steel bridge over Columbus Rd., to Amer. Constr. Co., Marion Bldg. Noted Feb. 25.

Ia., Carroll—See "Streets and Roads."

Ia., Carroll—Carroll Co., 90 x 20 ft. Pony truss and 32 x 24 deck girder span bridge, to Jensen Bros., Thompson, $25,000.

Neb., Niobrara—State Hy. Dept., Lincoln, new 700 ft. concrete bridge with two 40 ft. approaches over Niobrara River, here, to Western Bridge & Constr. Co., Peters Trust Bldg., Omaha. Engrs. est. $78,000. Noted Feb. 25 under "Bloomfield."

S. D., Yankton—See "Streets and Roads."

Dams

Proposed Work

Wis., Knowlton—See "Buildings—Industrial."

Bids Desired

N. J., New Brunswick—Apr. 6, by Bd. City Comrs., 25 Livingston Ave., concrete dam across Lawrence Brook, at Parsons Mills, here. A. Atkinson, city engr.; adv. E. N.-R. Mar. 18.

Railways

Proposed Work

West Virginia—Chesapeake & Ohio R.R. Co., C. W. Johns, ch. engr., Richmond, Va., plans 19.2 mi. railroad from Edwight to Surveyor, connecting main line with Marsh Fork line.

Missouri—St. Louis—San Francisco R. R. Co., Frisco Bldg., St. Louis, making preliminary plans 8 mi. standard gauge 100 lb. tracks connecting Pacific and Villa Ridge. F. G. Jonah, ch. engr.

Oklahoma—Northern Oklahoma R. R. Co., Vinita, G. Patten, pres., plans 15 mi. railroad in Craig Co.

California—Southern Pacific R.R. Co., 65 Market St., San Francisco, making plans relocating tracks in vicinity of present terminal and other points in vicinity of San Jose. G. W. Boschke, ch. engr.

Bids Desired

Kansas—See "Contracts Awarded."

Nebraska—See "Contracts Awarded."

Contracts Awarded

Kansas—Missouri, Kansas & Texas R.R. Co., Ry. Exch. Bldg., St. Louis, Mo., will extend yards at Parsons, here, with own forces. $52,000. F. Ringer, ch. engr.

Nebraska—Union Pacific R.R. Co., 1416 Dodge St., Omaha, will lay 100 mi. new rails from Columbus right-of-way, etc., by day labor. R. L. Huntley, ch. engr.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

New Jersey — Bd. Commerce & Navigation, State House, Trenton, received no bids Mar. 12, redredging about 40,000 cu.yd. inland waterway from Cape May to Bayhead, Swains and Richardsons Channels, Cape May Co. Will readvertise. Noted Feb. 25.

Mississippi—See "Unclassified."

Ill., Rock Island—Election Apr. 20, $60,000 bonds, river front improvements. W. Treichler, 4409 7th Ave., engr.

Ia., Onawa—Auditor Monona Co. takes bids latter part of April, 210,000 cu.yd. excav. in open ditch, etc. C. B. Zorn, Court House, engr. Noted Jan. 28.

Calif., Coronado—City plans reconstructing seawall, damaged by storm. $31,000 appropriated.

Calif., Oakland—Southern Pacific R.R. Co., 65 Market St., San Francisco, made plans dredging 100,000 cu.yd. Oakland Estuary, at foot of Peralta St., here. Eng. Dept. of Owners, engrs.

Bids Desired

N. Y., Albany—Apr. 15, at office Albany Port Dist. Comn., 100 State St., dredging in Hudson River, here. F. C. Herrick, chn.; adv. E. N.-R. Mar. 18.

Md., Baltimore—Mar. 24, by Bd. Awards, dredging in Baltimore Harbor for 1926, for Mayor and City Council. F. W. McKinney, Recreation Pier, harbor engr.

Ind., Crawfordville—Mar. 20, by W. S. Harding, constr. comr., Court House, constructing Joseph W. Hall Drain, main ditch 23,300 ft. long, 56,532 cu.yd. excav., $18,930; also constructing 3,000 ft. tile drain.

Ark., Marianna—Mar. 22, by Comrs. Lee Co. at office Daggett & Daggett, attys. Hog Tush D. D., 200,000 cu.yd. excav. dry land work and ditches, 4- to 8-ft. deep and 4- to 10-ft. bottom. C. B. Bailey, Wynne, engr.

Calif., Santa Rosa—Mar. 24, by W. W. Felt, Jr., clk. Sonoma Co., removing slides, reconstructing fills and ditches, 20,000 or more cu.yd. excav. on road from Jenner to Mendocino Co. line.

Bids Received

New Jersey — Bd. Commerce & Navigation, State House, Trenton, Mar. 12, V. Gelineau, dir., dredging from wharf at Leeds Point to point in Great Bay, 600 ft. easterly from Oyster Creek, Galloway Twp., Atlantic Co., from Delaware Dredging Co., 139 South 3rd St., Phila., Pa., at $0.32 per cu.yd. Noted Feb. 25.

N. J., Newark—Dept. Pub. Affairs, City Hall, T. L. Raymond, dir., Mar. 10, 500,000 cu.yd. dredging and 30,000 cu.yd. rock removal in City Channel, Port Newark, from P. Sanford Ross, Inc., 277 Washington St., Jersey City, $517,000. Noted Mar. 4.

Contracts Awarded

Miss., Greenwood — Comrs. Fighting Bayou D. D., 36 mi. drainage channel, 1,250,000 cu.yd. excav. and 260 acres clearing and grubbing, to A. J. Harty & Co., Greenville, at $0.1124 per cu.yd. Noted Feb. 19.

Ill., Chicago—See "Unclassified."

Ill., Murphysboro—Big Lake Special D. D., Jackson Co., H. L. Brickey, chn., 470,000 cu.yd. excav., etc., to Campbell & Hast, Sandborn, Ind. Former contract rescinded. Noted Dec. 24.

Calif., Calexico — Colorado River Land Co., 10 mi. levee, 306,000 yd. earth moving (using dragline dredges), to J. Philips, 1329 Milvia St., Oakland, $0.15 per yd.

Streets and Roads

Proposed Work

Mass., Hull—Plans constructing various streets. $73,500 appropriated. Engineer not selected.

New Jersey—Middlesex Co. (New Brunswick) plans paving 1 mi. Stelton-New Market Rd. in Stelton, 1 mi. Cranbury-Kingston Rd. in Cranbury; 2 mi. Rahway Ave. in Woodbridge; and 1 mi. Jamesburg-Englishtown Rd., in Jamesburg. W. C. Buchanan, Perth Amboy, engr.

New Jersey—State Hy. Dept., Trenton, plans concrete paving 4.5 mi. road from Millville to Vineland, Cumberland Co. $250,000.

N. J., Asbury Park — City Comn. plans retopping Springfield Ave. from Main St. to city line. $25,000. N. Rogers, Asbury Park, engr.

W. Va., Lewisburg — Plans election $30,000 bonds, improving Court and other streets. W. L. Tabscott, recdr.

W. Va., Morgantown—Clay Dist. election Apr. 30, $525,000 bonds, improving roads in Morgan Co. A. J. Baritell, Morgantown, engr. Noted Jan. 28.

Ala., Anniston — Plans paving various streets. $43,000. S. J. Reaves, mayor.

La., Columbia — Caldwell Parish Police Jury election Mar. 23 $350,000 bonds graveling roads in Dist. 2, incl. roads west of Ouchita River, also making surveys waterworks and sewerage systems. Swanson & McGraw, Balter Bldg., New Orleans, engrs. on latter project.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, plans probably concrete or asphalt on concrete surfacing 6 mi. National Cemetery-Sumner Co. Line Rd., Davidson Co. C. N. Bass, comr.

Mich., Ecorse—G. A. Moore, village pres., plans sheet asphalt on concrete or concrete repaving Jefferson Ave. $225,000.

Ill., East St. Louis—See "Unclassified."

Ill., East St. Louis—Making preliminary plans grading, curbing and concrete paving 75th St. from State St. to Church Lane. $39,800. W. McK. Brown, City Hall, engr.

Ill., Franklin Park — Plans paving Schiller Blvd., Rose and other streets. $250,000. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs.

Ill., Park Ridge — Plans paving Prospect Ave. and various streets. $600,000. Consoer, Older & Quinln, 140 South Dearborn St., Chicago, engrs.

Wis., Madison—W. R. Winckler, city clk., making plans curbing, guttering and rein.-con. paving various streets. E. E. Parker, City Hall, engr. Noted Mar. 4.

Wis., Oshkosh — City Clerk soon takes bids bituminous concrete, vibrolithic concrete, macadam or cement paving Jackson Dr., Wisconsin, Jefferson, Mt. Vernon, Ashland, South Park, Monroe and Grand Aves., Catharine, Florida, 7th, Hudson and Punhoqua Sts. G. H. Randall, City Hall, engr.

Ia., Newton—Making preliminary plans grading, curbing and brick on concrete, rein.-con. or asphalt paving 57 blocks various streets. $135,000. V. H. Lear, City Hall, engr.

Ia., Pella — Making preliminary plans grading, concrete paving, etc., various streets. $100,000. Brown & Cook, Ottumwa, engrs.

Ia., Vinton—Benton Co. election in June $1,500,000 bonds, paving 50 mi. and graveling 100 miles various roads. Total $2,500,000. M. A. Hall, Vinton, co. engr.

Neb., Omaha — Plans grading, curbing, paving, etc., various streets in Dists. 2722, 2715, 2703, 2692, 2688, 2610, 2607, 2730, 2727, 2637, 2627, 2622, 2615, 2593, 2578, 2590, 2560 and 2562.

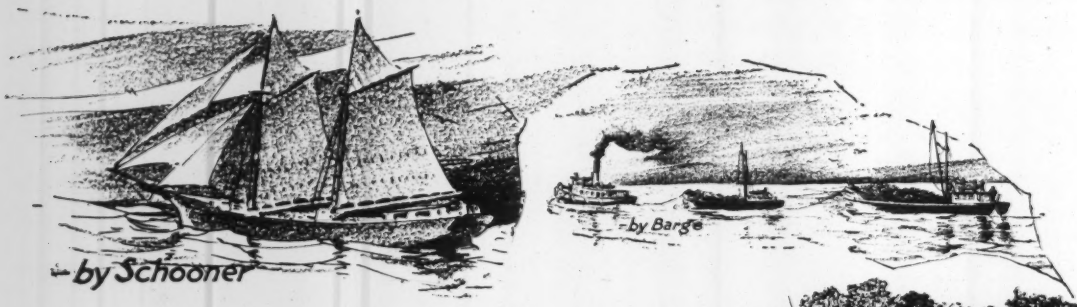
Wyoming—State Hy. Dept., Cheyenne, takes bids about Mar. 31, grading, gravel surfacing, etc. remaining 18 mi. Salt Creek Highway connecting Casper and Salt Creek oil field, 28,500 cu.yd. gravel, 3,334,000 cu.yd. haul on above gravel, etc. $2,300,000. Z. E. Sevison, highway engr.

Mo., Hannibal—Plans improving various streets. To exceed $25,000. W. R. Gettler, city engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids asphalt repaving, etc. 3,095 sq.yd. Garfield St., $20,500; asphalt paving, etc. 7,805 sq.yd. Prairie St., $30,000; grading, concrete paving, etc. 4,692 sq.yd. various alleys, $16,730. W. W. Horner, 300 City Hall, engr.

Ark., Little Rock—Soon takes bids grading, curbing and concrete or asphalt paving streets in Annex 1 to Dist. 426, $6,293. Dickson & Watkins, 607 Boyle Bldg., engrs.; and Annex 1 to Dist 356, $60,000. G. D. Douglass, 829 Home Life Bldg., engr.

Ark., North Little Rock—Making preliminary plans grading, curbing and rein.-



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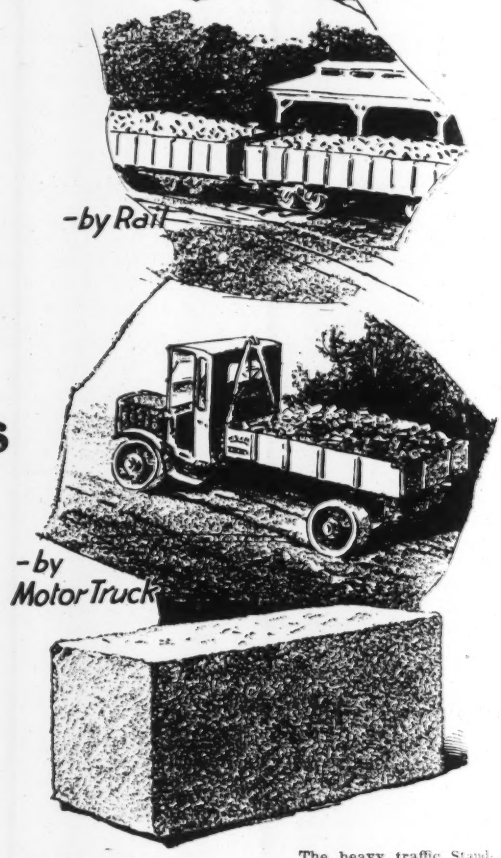

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Streets and Roads (Continued)

con. paving Paving Dist. 32. $30,000. G. Foster, City Hall, engr.

Tex., Hondo—Medina Co. making plans and soon takes bids Uvalde rock asphalt surfacing 10.47 mi. Highway 3, Federal Aid Project 270-C, 17 ft. $64,400. A. A. Pirie, Kampman Bldg., San Antonio, div. engr.

Tex., Jourdanton—Election soon $40,000 bonds, improving various streets. J. B. Leggett, mayor. Engineer not announced.

Tex., Liberty—Liberty Co. making plans reshouldering and shell surfacing 7.5 mi. Highway 61, from Devers to intersection with Highway 3, 16 ft. $45,000. A. C. Love, Liberty, co. engr.

Tex., Marlin—Falls Co. making plans grading and bridging 5.56 mi. Highway 108, Federal Aid Project 670-B, 26 ft. $46,000; grading, etc., 3.35 mi. and gravel surfacing 2.06 mi. Laterals to Highway 108, 16 ft., $41,000. V. B. Harris, Rosebud, co. engr.

Tex., Miles—Voted $30,000 bonds paving various streets. Address mayor.

Tex., Rockwall—Rockwall Co. making plans 8 in. concrete paving 2.7 mi. Highway 1 between Fate and Blackland, 8 ft. $33,000. V. R. Snitham, Rockwall, engr.

Tex., San Benito—Election Apr. 6, $75,000 bonds, improving various streets. Address S. Brown, mayor.

Tex., Tyler—Smith Co. making plans gravel surfacing 6.3 mi. Highway 31, Gladwater-Waco Rd., 16 ft. $25,000. D. K. Caldwell, Tyler, co. engr.

Oklahoma—State Hy. Dept., Oklahoma City, making surveys grading, etc., 12 mi. State Highway 7, east of Duke, 30 ft., Harmon Co. $45,000. J. M. Page, highway engr.

Okla., Duke—Making preliminary plans grading and paving 5 blocks Main St., 76 ft. $35,000. R. L. Darby, mayor. Engineer not selected.

Okla., Elk City—Making preliminary plans grading, curbing and vertical fibre brick paving 9,400 sq.yd. streets in Dist. 5. $42,000. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Frederick—Plans grading and sheet asphalt paving 4,860 sq.yd. streets in Dist. 1. $26,200. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Stillwater—Plans grading and concrete paving 9,260 sq.yd. streets in Dist. 41. $28,700. R. G. Saxton, Stillwater, engr.

Ariz., Globe—Election Mar. 22, $150,000 bonds, paving various streets. A. G. McGregor, city engr.

Wash., Raymond—City Clerk takes bids about Apr. 1, 8 in. concrete paving and two 12 ft. concrete sidewalks on 3 blocks Commercial St. et al. 36 ft.

Ore., Klamath Falls—See "Sewers."

Calif., Beverly Hills—Made plans 6 in. concrete with 2 in. black (open specifications) surfacing, etc. 2¾ mi. Wilshire Blvd. A. Mathews, asst. city engr.

Calif., Los Angeles—Los Angeles Co. made plans improving California Ave. Impvt. 465, 4,898 cu.yd. excav., 148,952 sq. ft. Willite wearing surface on asphaltic concrete paving, etc. To exceed $70,000.

Calif., Los Angeles—Making plans concrete paving approximately 5 mi. portions of 54th St., Arlington and 1st Aves., etc. To exceed $25,000.

Calif., Madera—Madera Co. plans constructing road from Raymond to Mariposa Co. line, via Ahwahnee and from Knowles to Raymond. To exceed $25,000.

Calif., Marysville—Making plans paving, etc., 23 blocks alleys and 9 blocks various streets. $90,000.

Calif., Marysville—Making plans grading, paving, etc., portions of Pine, J and F Sts., etc. To exceed $25,000. L. B. Crook, city engr.

Calif., Newport Beach—Making plans paving, etc., Corona Del Mar. To exceed $100,000. P. E. Kressly, H. W. Hellman Bldg., Los Angeles, engr.

Calif., Redwood City—Koff Realty Co. plans grading, paving, curbing, walks, guttering, etc. White Oaks Tract. To exceed $25,000. G. A. Kneese, Courthouse, engr.

Calif., San Anselmo—F. D. Burrows, city clk., soon takes bids improving Florence and Oak Knoll Aves., 2,850 cu.yd. grading, 51,270 sq.ft. surface grading, 51,270 sq.ft. asphaltic paving, etc. H. E. Feusier, city engr.

Calif., San Bernardino—Making plans improving portions of Grant, Fairfax Aves., K St., etc., grading, 4 in. asphaltic concrete paving; 8 in. vitr. sewers, etc. To exceed $25,000. C. E. Johnson, city engr.

Calif., San Diego—Common Council plans improving 1st, Redwood and other Sts., 242,784 sq.ft. 1½ in. asphaltic concrete on 5 in. bituminous paving, 9,305 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous paving, 5,066 sq.ft. concrete sidewalk, 1,059 lin.ft. concrete curbing, 424 cu.yd. excav., etc. F. A. Rhodes, city engr.

Calif., Winters—Plans grading, concrete curbing and guttering, 1½ in. Willite asphaltic concrete on 2½ in. asphaltic concrete, paving portions of Railroad, 4th and Main Sts. To exceed $25,000. L. H. Gregory, city engr.

Ont., Ft. William—Plans graveling approximately 3 mi. various roads. Work will probably be done by day labor. $36,547. C. B. Symes, City Hall, engr.

Ont., Hamilton—Wentworth Co. plans concrete paving and improving Lynden, Brock, Sydenham, Dundas and Governors Rds. $60,000. A. Lumsden, County Bldg., Hamilton, engr.

Ont., Toronto—City Council plans concrete curbing and guttering and asphalt on concrete paving 5,000 sq.yd. Craven Rd. $29,608. R. C. Harris, City Hall, engr.

Ont., Toronto—East York Twp. making plans grading, curbing, guttering and asphalt on 6 in. concrete paving 3,950 ft. Pape Ave. from here to Don Mills Rd. $105,470. G. R. Jack, 443 Sammon Ave., engr.

Bids Desired

Conn., New Haven—See "Materials."

N. Y., Harrison—Mar. 20, at office Town Clerk, bituminous macadam paving 0.63 mi. Freemont St. from Harrison Ave. to West St. M. H. White, town supt. highways.

N. Y., New York—Mar. 25, by W. J. Flynn, acting pres. Bronx Boro, Crotona Park, Tremont and 3rd Aves., granite block on concrete paving Fordham Landing Rd., Harlem River Terrace, Cedar, East Tremont and Carter Aves., Bronx and East 176th Sts.; bituminous on concrete paving Garden and Miriam Sts.; grading, curbing and sidewalks on West 174th St.; sheet asphalt on concrete paving Bryant, Gerard and Rochambeau Aves., East 158th, 205th and 210th Sts.

New Jersey—Mar. 31, by Road Com. Salem Co., Court House, Salem, bituminous macadam paving Salem-Hancocks Bridge Rd., Sect. 2, in Elsinboro and Lower Alloways Creek Twps. H. B. Keasbey, Salem, co. engr.; adv. E. N.-R. Mar. 18.

N. J., Oakhurst—Apr. 1, by Ocean Twp., G. E. Van Note, chn., rein.-con. paving 0.35 mi. Edgmont Ave. between Norwood Ave. and Main St., Lock Arbour. J. W. Seaman, 192 Bway., Long Branch, engr.; adv. E. N.-R. Mar. 18.

Pa., Uniontown—Mar. 24, by E. Huston, controller Fayette Co., one course rein.-con. paving, etc., 8,200 ft. road, and 10,880 ft. Flat Rocks-Five Forks Rd., both 18 ft.

Pennsylvania—Apr. 6 and 7, by State Hy. Dept., Harrisburg, grading, rein.-con. or bituminous paving approximately 59 mi. roads in Berks, Butler, Crawford, Cameron, Clinton, Fayette, Indiana, Lackawanna, Lebanon, and Monroe Counties. W. H. Connell, engineering executive and deputy secy. of highways; adv. E. N.-R. Mar. 18.

Delaware—State Hy. Dept., Dover, Mar. 10, improving with (a) concrete (b) stone concrete (c) slag concrete (d) amiesite on concrete paving (*) metal joint (†) non metal joint, 0.81 mi. Grubbs Corner-Hamby Corner Rd., Contr. CN-24, from Juniata Co., Empire Bldg., Phila., Pa., (a*) $49,603 (a†) $49,475; 1.33 mi. road through Farmington, CK-33, from Old Lime Constr. Co., Chestertown, Md., (b*) $35,438 (b†) $35,019 (c*) $34,230 (c†) $33,811; 3.35 mi. CS-49, Gumboro, Maryland Line, from P. D. Phillups & Bro., Salisbury, Md., (b) $112,866 (c) $109,719; widening 3.66 mi. Pine Tree-Odessa Rd., Contr. 56, from F. W. Lovett, Newark, Del., (a) $37,377 (d) $43,665. Noted Feb. 18.

Maryland—Mar. 30, by State Roads Comn., Baltimore, concrete paving 9.52 mi. and 19.46 mi. concrete shoulders on roads in various counties; adv. E. N.-R. Mar. 18.

Md., Towson—Mar. 23, by Comrs. Baltimore Co., Courthouse, paving 2.03 mi. Group 3. Middletown and Graystone Rds., Old York Rd. from Graystone Rd. south, Old York Rd. from Graystone Rd. north. $61,000. S. A. Green, Towson, road engr.

North Carolina—Mar. 30, by State Hy. Dept., Raleigh, grading, concrete or asphaltic paving, etc. 13.73 mi. Project 550, Hoke Co. $249,740, 9.66 mi. Project 4350, Granville Co. $268,670, 4.76 mi. Project 9060, Buncombe Co. $165,108, 5.41 mi. Project 886, Rutherford Co. $186,000, 7.65 mi. Project 112, Camden Co. $219,400, and 6.04 mi. Project 6690, Rowan Co. $170,300; clearing, grubbing, grading, etc. 11.55 mi. Project 244, Jones Co. $73,414, 8.34 mi. Project 135, Halifax Co. $32,500, 13.35 mi. Project 685, Stanly Co. $87,590, 11.11 mi. Project 591, Rockingham Co. $65,515, 10.51 mi. Project 398, Robeson Co. $38,960, and 11.51 mi. Project 480, Wake Co. $53,500; and clearing, grubbing, grading and topsoiling 7.6 mi. Project 574, Moore-Montgomery Counties, 44,195. C. M. Upham, Raleigh, engr.

N. C., Sylva—Mar. 23, by City, curbing, guttering, sidewalks and asphalt on concrete paving 40,000 sq.yd. various streets. G. C. White Co., Durham, engr.

N. C., Tabor—Mar. 31, by City, improving various streets, 15,500 sq.yd. paving 9,100 sq.yd. sidewalks, storm sewers, etc. $60,000. J. B. McCrary Eng. Corp., Citizens & Savings Bank Bldg., Atlanta, Ga., engrs.

N. C., Windsor—Mar. 25, by Bd. Comrs. Bertie Co., clearing, grading, topsoiling, etc., 12.25 mi. road from Hereford Co. line to Chowan River, $70,000; also 11 mi. road from Powellsville to Rice Mill, $65,000. S. W. Kenney, Windsor, clk.

Georgia—Apr. 2, by State Hy. Dept., East Point, (**F. A. P. means Federal Aid Project**), sand clay surfacing 1.8 mi. Millidgeville-Irwinton Rd., F. A. P. 439-A, Baldwin Co., 3.1 mi. Abbeville-McRea Rd., F. A. P. 384-B, Dodge Co., and 2.4 mi. Patterson-Offerman Rd., incl. 2 bridges, F. A. P. 339, Pierce Co.; gravel surfacing 6.7 mi. Tipton-Valdosta Rd., F. A. P. 90-B, Cook Co.; grading 7.4 mi. Homerville-Naylor Rd., F. A. P. 431-A, Clinch Co. W. R. Neel, highway engr.

Ala., Birmingham—Apr. 15, by City Comn., (**e. e. means engineers estimate**), asphalt on concrete paving 12 blocks Pike Rd., 60 ft. $51,800, 1 block 60th St., 40 ft. $2,150, 5 blocks 20th St. (Ensley), 40 ft. $16,000, 2 blocks 24th St. (Ensley), 40 ft. $3,350, 1 block 6th Way, (Ensley), 60 ft. $4,320, and 4 blocks Berwick Rd., 80 ft. $16,850; 4 ft. sidewalks, curbing and guttering 1 block 1st Ave., $2,000.

Ala., Tarrant City—Apr. 15, by City Clerk, asphalt on concrete paving 11 blocks East Lake Blvd., 40 ft., $46,000; curbing, guttering and 4 ft. sidewalks on 24 blocks Elizabeth Ave. $27,500, 5 blocks Birmingham St., incl. 40 ft. concrete bridge, $5,000; also guttering and 4 ft. sidewalks on 15 blocks Sloan Ave. $16,000.

Louisiana—Apr. 13, by State Hy. Comn., Baton Rouge, graveling 5.12 mi. Natchitoches-Boyce Highway, State Project 429-E, Natchitoches Parish. W. B. Robert, highway engr.

Tenn., Knoxville—Mar. 31, by City, F. A. Ault, recdr., curbing, guttering, sewering, sidewalks and paving 80,000 sq.yd. various streets; adv. E. N.-R. Mar. 18.

Kentucky—Apr. 12, by State Hy. Dept., Frankfort, low type surfacing 3.7 mi. Georgetown-Paris Rd., State Aid Project 32, Sect. A, and 3.5 mi. same road Sect. B, both 16 ft., Scott Co. E. N. Todd, highway engr.

O., Cleveland—Mar. 24, by Bd. Comrs. Cuyahoga Co., paving Mackenzie Rd. 2. $28,900. F. Lander, Court House, engr.

O., Columbus—Mar. 23, by W. H. Duffy, dir. Pub. Serv., grading, curbing, laying necessary water services, sewer connections and paving with (a) brick (b) concrete and (c) asphalt 448 ft. Gorman St., 33 ft. (a) $5,385 (b) $4,821; 800 ft. 22nd Ave., 26 ft. (a) $15,975 (c) $13,453; and 2,085 ft. Front St., 52.5 ft. (c) $43,154.

Indiana—Apr. 6, by Bd. Comrs. Lake Co., grading and paving William Doescher et al gravel road, Hanover Twp. $52,000. W. E. Whitaker, aud.

Ind., Auburn—Apr. 6, by Bd. Comrs. DeKalb Co., grading, graveling, etc., approximately 10,142 ft. Charles Keller et al Rd., Wilmington Twp., $10,220; 3 mi. Herman Ketel Rd., Union Twp.; and 10,689 ft. Charles Ridge et al Rd., Wilmington Twp., $10,000. F. Shook, co. aud.

Ind., Vincennes—Apr. 6, by Bd. Comrs. Knox Co., grading and concrete paving 3 mi. Mike Kaiser et al Rd., Vincennes Twp. $68,203. G. W. Donaldson, aud.

Ind., Warsaw—Mar. 24, by Comrs. Kosciusko Co., grading, graveling or macadamizing J. A. Bloom et al Rd., Jackson and Monroe Twps., $17,328; Russel A. Warner et al County Unit Rd., Turkey Creek Twp., $111,015; Jonathan Wyland et al Rd., Wayne Twp., $10,656. H. Breading, co. aud.

Michigan—Mar. 23, by State Hy. Dept., at church near east corner Sect. 35, Farmington Twp., Oakland Co., concrete paving 2.5 mi. Assessment District Rd. 467, Oakland and Wayne Counties. G. C. Dillman, Lansing, highway engr.

Michigan—Mar. 23, by State Hy. Dept. at office Comrs. Calhoun Co., Marshall, graveling 4.867 mi. Lee Center Rd., and 2.611 mi. Pennfield Rd. in Bedford Twp. G. C. Dillman, Lansing, highway engr.

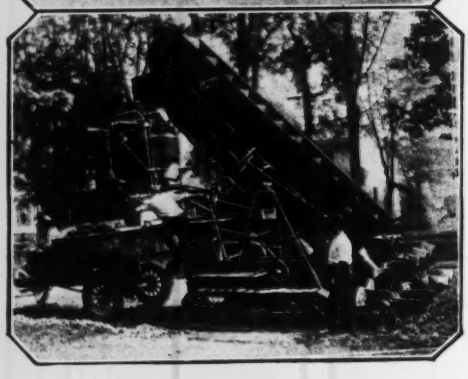
Michigan—Mar. 25, by State Hy. Dept. at office Comrs. Clinton Co., St. Johns, graveling 3.5 mi. County Assessment Dist. Rd. 21. G. C. Dillman, Lansing, highway engr.

Michigan—Mar. 26, by State Hy. Comn., at schoolhouse near southwest corner Sect. 30, Sterling Twp., concrete paving 13 mi. Assessment Dist. Rd. 462, Macomb and Oakland Counties. G. C. Dillman, Lansing, engr.

Illinois—See "Bridges."

Illinois—Mar. 31, by State Dept. Pub. Wks. & Buildings, Div. Highways, Spring-

Your Safety Factor



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Mat'l Handling Equipment.

Streets and Roads (Continued)

field, concrete, vitr. brick, or bituminous concrete with or without binder course surfacing 0.75 mi. Route 9, Sect. 30 Hancock Co., 7 mi. Route 16, Sect. 23 Madison and Macoupin Counties, 0.1 mi. Route 16, Sect. 23-X, Macoupin Co., 0.53 mi. Route 19, Sect. 86-W-2 Cook Co., 1.96 mi. Route 30, Sect. 1 Peoria Co., 4.21 mi. Route 30, Sect. 2, 4.73 mi. Sect. 7, 7.08 mi. Sect. 8, Peoria Co., 7.49 mi. Route 31, Sect. 14 Schuyler Co., 9.22 mi. Route 40, Sect. 10 Jo Daviess Co., 8.64 mi. Route 40, Sect. 11 Carroll and Jo Daviess Counties, all foregoing 18 ft. wide; gravel surfacing 3.93 mi. Route 31, Sect. 14, Schuyler Co.; grading 1.24 mi. Route 1, Sect. 42-A, Saline Co. 0.5 mi. Route 12, Sect. 17-V-1 Marion Co., and 0.64 mi. Route 13, Sect 13-A, Jackson Co. F. T. Sheets, highway engr.

Ill., Chicago—Mar. 23, at office Bd. Local Impvts., Room 207, City Hall, grading, curbing, guttering, sewers and concrete, granite block, asphalt on concrete, etc. surfacing portions of Walden Parkway, West 109th and West 77th Places, North Francisco, Morse, South Winchester, Mansfield, Harper, Black Stone, Dante, Dorchester, Kenwood and Kimbark Aves., Howard, Madison, South May, East 70th, West 34th, West 98th, Arthington, Filmore, East 88th, 89th and 90th Sts. J. J. Sloan, pres.

Ill., Lake Forest—Mar. 24, at office J. S. King, city clk., curbing, sidewalks and vibrolithic concrete paving 9,660 sq.yd. and 7,640 ft. 4- to 36-in. vitr. tile sewers, etc., in various streets.

Ill., Wenona — Mar. 23, by Bd. Local Impvts., City Hall, grading, curbing, guttering and 7-in. rein.-con. paving, etc., 25,318 sq.yd. streets in Paving Dist. 2. Taylor & Woltman, Unity Bldg., Bloomington, engrs.

Wisconsin—Mar. 25, by State Hy. Dept., at Div. Office 4, Citizens Natl. Bank Bldg., Wisconsin Rapids, grading, bridging, and gravel surfacing 6.25 mi. New Lisbon-Sparta Rd., Juneau Co.; grading, bridging and clay surfacing 15.21 mi. Kilbourn-Wisconsin Rapids Rd., Federal Aid Project 394-A, Adams Co., and 4.06 mi. same road, Federal Aid Project 394-B, 1.33 mi. Blenker-Sperry Rd. and 1.06 mi. Hewitt Rd., Wood Co. J. T. Donaghey, Madison, ch. engr.

Wisconsin—Mar. 26, by State Hy. Comn., Div. Office 3, Nicolet Bldg., Green Bay, grading and concrete paving, etc., 101,596 sq.yd. Oshkosh-Fremont Rd., Federal Aid Project 393-A, Winnebago Co.; 37,302 sq.yd. Kewaunee-Manitowoc Rd., Federal Aid Project 367-A, Kewaunee Co.; and 36,995 sq.yd. Shawano-Bonduel Rd., Federal Aid Project 345-B, Shawano Co. J. T. Donaghey, Madison, ch. engr.

Wis., Beloit—Mar. 22, by Bd. Pub. Wks., grading, curbing, guttering, one course rein.-con., vibrolithic, sheet asphalt on 5 in. concrete, vibrolithic concrete or asphaltic concrete on 5 in. concrete paving 15 streets. G. E. Heebink, City Hall, engr.

Wis., Burlington—Mar. 31, by A. Zechel, city clk., concrete and vibrolithic concrete paving 9,684 sq.yd. Wilmot Ave. $25,000.

North Dakota—Mar. 30, by State Hy. Dept. and Bd. Comrs. Renville Co., at Court House, Mohall, grading, etc., 6.012 mi. Federal Aid Project 288-B. C. Christensen, comr.

Ia., Cedar Rapids—Mar. 29, by City, 2 in. asphalt resurfacing 30,200 sq.yd. various streets. $55,000. J. L. Storey, city clk. Noted Mar. 11.

Ia., Monona—Mar. 23, by W. F. Humphrey, town clk., grading curbing, guttering and rein.-con., vibrolithic concrete, asphaltic concrete, Warrenite bitulithic or brick on concrete paving 14,600 sq.yd. North Center, Iowa, Page and Main Sts. H. R. Green Co., 208-210 Beaver Bldg., Cedar Rapids, engrs.

Ia., Winterset—Mar. 23, by R. W. Varley, aud. Madison Co., improving 5.3 mi. Primary Rd. 15, 72,397 cu.yd. excav., 61,100 cu.yd. overhaul, 2,200 ft. 6 and 8 in. tile, etc. T. S. Farquharson, Court House, engr.

Minn., Winona—Mar. 22, by G. W. Hofmann, city recdr., improving various streets, 8,000 ft. concrete curbing, 19,987 sq.yd. various types paving, and 38,692 sq.yd. bituminous on old brick paving. $95,000. E. E. Chadwick, city engr.

Kan., Newton—Apr. 6, by Clerk Harvey Co. grading and concrete or vitr. brick surfacing 42,800 sq.yd. Federal Aid Project 329-A. A. Hay, Newton, engr. Noted Mar. 4.

Nebraska—Mar. 20, by Peterson & De Voe, attys., Bankers Life Bldg., Lincoln, clearing, grubbing, grading, etc., 78,500 cu. yd. between Waverly and Havelock, for Lincoln Sanitary Dist., Lancaster Co. (Lincoln). $25,000. Scott & Scott, Bankers Life Bldg., Lincoln, engrs.

North Dakota — Mar. 23, by State Hy. Dept. and Bd. Comrs. Oliver Co., Center, grading, etc., 5.12 mi. Federal Aid Project 314-A. C. Christensen, highway comr.

North Dakota—Mar. 31, by State Hy. Dept. and Bd. Comrs. Bottineau Co., Bottineau, grading, etc., 15.026 mi. Federal Aid Project 288-A. C. Christensen, highway comr.

North Dakota — Mar. 31, by State Hy. Dept. and Comrs. Bottineau Co., at Court House, Bottineau, grading, etc. 12.908 mi. Federal Aid Project 289. C. Christensen, comr.

North Dakota — Apr. 1, by State Hy. Dept. and Bd. Comrs. Towner Co., Court House, Cando, grading, etc. 8.484 mi. Federal Aid Project 311-B. C. Christensen, highway comr.

North Dakota — Apr. 2, by State Hy. Dept. and Comrs. Benson Co., Court House, Minnewauken, grading 17.243 mi. Federal Aid Project 291-A. C. Christensen, comr.

North Dakota—Apr. 6, by State Hy. Dept. and Comrs. McLean Co., Court House, Washburn, grading 11.75 mi. Federal Aid Project 317. C. Christensen, comr.

North Dakota—Apr. 6, by State Hy. Dept. and Bd. Comrs. McLean Co., Washburn, grading etc. 7.096 mi. Federal Aid Project 316-AB. C. Christensen, highway comr.

North Dakota — Apr. 9, by State Hy. Dept. and Bd. Comrs. Rolette Co., Court House, Rolla, gravel surfacing, etc. 4.874 mi. Federal Aid Project 194-B. C. Christensen, highway comr.

Mo., Clayton—Mar. 24, by R. Jablonsky, engr. St. Louis Co., Court House, grading, and telford macadam paving, etc., Leenore, Boswell and Viehl Aves.

Mo., Milan—Mar. 29, by J. T. Morehead, city clk., grading, curbing, guttering and vibrated concrete paving 8,040 sq.yd. 3rd St. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, engrs. Noted Jan. 7.

Mo., St. Louis—Mar. 30, by Bd. Pub. Serv., 208 City Hall, widening and Warrenite bitulithic concrete surfacing 34,190 sq.yd. Jefferson Ave. $202,440; asphalt resurfacing 15,050 sq.yd. Grand St., $79,000; concrete paving, etc. 1,940 sq.yd. Newby St., $14,600; rein.-con. paving, etc. 1,990 sq.yd. Compton St., $6,600; Warrenite bitulithic concrete paving 2,550 sq.yd. Pennsylvania Ave. $39,720, and 8,400 sq.yd. 10th St., $54,720. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Apr. 6, by Bd. Pub. Serv., 208 City Hall, grading and concrete paving approximately 25,000 sq.yd. alleys in City Blocks 2776 N, 2986, 3783, 4053 B, 4058 E, 4500 A, 4849 W, 4974, 4942, 5124, 5132, 5134, 5282, 5293, 5302, 5429 C, 5529, 5542, 5544 and 5683. $69,860. W. W. Horner, City Hall, engr.

Mo., Unionville—Mar. 31, by O. B. Calhoun, city clk., City Hall, 6 in. rein.-con. on vibrated concrete paving etc., approximately 11,139 sq.yd. Main, Grant, 7th and 16th Sts. E. T. Archer & Co., New England Life Bldg., Kansas City, engrs.

Tex., Brownsville—Cameron Co. taking bids grading, and bridging 24.41 mi. Highway 100, State Aid Project 647. $68,000. W. O. Washington, Brownsville, co. engr.

Tex., San Antonio—Mar. 22, by I. Ewig, city engr., City Hall, hard paving Buena Vista Ave. from Hamilton to Medina Sts., 45 ft., for City. $100,000.

Okla., Stillwater—Mar. 23, by H. Moore, city clk., grading, curbing and concrete paving 8,800 sq.yd. East 6th St. $26,640. R. G. Sexton, Stillwater, engr.

Idaho — Mar. 26, by State Hy. Dept., Boise, improving 3.377 mi. Old Oregon Trail Highway, Federal Aid Project 86-B, Canyon Co., 10,955 cu.yd. earth, 146 cu.yd. solid and 759 cu.yd. loose rock excav., 13,593 sta.yd. overhaul, 2,701 cu.yd. crushed rock or gravel surfacing, 35,614 sq.yd. paving, etc.

Arizona — Mar. 29, by W. C. Lefebvre, state engr., Phoenix, improving Yuma-Gila Bend Highway, Federal Aid Project 82-B, 88,900 cu.yd. roadway excav., 42,500 cu.yd. borrow, 1,290 cu.yd. structural excav., 3,900 cu.yd. ditches, 8,200 sta.yd. overhaul, 15,000 cu.yd. surfacing, etc.

Washington—Mar. 30, by State Hy. Dept., Olympia, (**S. R. means State Road**), crushed rock surfacing, etc. Federal Aid Project 157-A, S.R. 3, north from Dayton Columbia Co., 8,000 cu.yd. S.R. 3 between Addy and Chewelah Stevens Co., 8,210 cu.yd. S.R. 8 between Bickelton and Mabton Hill Klickitat and Yakima Counties, 13,000 cu.yd. S.R. 2 east and west from Davenport and about 5 mi. S.R. 22 north from Davenport, all in Lincoln Co.; crushed gravel surfacing 5,000 cu.yd. S.R. 3 east and west from Richland, Benton Co.; grading, etc. 116,300 cu.yd. S.R. 3 between Mill Creek and Lowden, Walla Walla Co.; and concrete paving, etc. 60,000 sq.yd. S.R. 3 west from Kennewick, Benton Co. J. W. Hoover, ch. engr.

Wash., Montesano—Mar. 27, by Comrs. Grays Harbor Co., grading and gravel surfacing 3 mi. Upper Washkah Rd. $27,000. J. H. Kirkwod, Montesano, engr.

Wash., Pasco—Mar. 25, by Bd. Comrs. Franklin Co., grading 4 mi. each Ringold-Muir Rd. and Permanent Highway 14. L. L. Geeslin, Pasco, engr.

Wash., Wenatchee — Mar. 25, by City Comrs., improving Columbia-Yakima St., 12,000 cu.yd. grading, 23,400 sq.yd. 8 in. and 7,700 sq.yd. 7 in. concrete paving, etc. H. J. Smith, city clk.

Calif., Los Angeles—Mar. 29, by Supervs. Los Angeles Co., improving portion of College and Ocean Aves., etc., Impvt. 247, 26,075 cu.yd. excav., 574,821 sq.ft. 6- to 8-in. sectional concrete paving 593,585 sq.ft. 6 in. disintegrated granite and oil macadam subbase, etc.; also portions of Ocean Ave., Impvt. 416, 3,851 cu.yd. excav., 11,475 6 x 9 x 15 in. and 4,593 6 x 10 x 18 in. curbing, 54,739 sq.ft. walks, 54,765 sq.ft. 6 in. and 7,665 sq.ft. 8 in. guttering, etc. To exceed $35,000.

Calif., Martinez — Apr. 5, by Supervs. Contra Costa Co., grading, etc. 8,500 cu.yd. Harbor Blvd. R. R. Arnold, Martinez, co. surv.

Calif., Oroville — See "Contracts Awarded."

Calif., San Diego—Mar. 29, by Common Council, improving Louisiana St., 114,912 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete paving, 3,732 sq.ft. concrete sidewalk, 77 lin.ft. concrete curbing, etc. F. A. Rhodes, city engr.

Bids Received

N. J., Newark — Repaving Clifford St. from Jefferson St. to Wheeler Point Rd. and Thomas St. from Ave. C to Jefferson St., from Standard Bitulithic Co., 194 Washington Ave., $54,033 and $15,477 respectively; also North 7th St. from 3rd to Bloomfield Aves., from J. B. Gilligan-Casey Co., 972 Broad St., $38,147.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, Mar. 9, from R. B. Werner, 2313 Walnut St., grading Afton Faunce and Loney Sts. $9,379, Kingsley St. $802, 12th and Rittner Sts. $1,383, from Belmont Auto Trucking Co., 6118 Pine St., Aldine, Bleigh, Cottage, Erdrick, Faunce, Jackson, Loring, Marple, Napfle, Oakmont, Shelmire, Teesdale, Tudor, Vista and Walker Sts. $90,433, from Morrisey Bros., 4345 North 7th St., Andrews, Georgian, 19th and 20th Sts. $19,944, from Root Bros., Ridge Ave. and Righter St., Aurania, Bean, Evergreen, Lare, Parker and Summit Sts. $9,266, from F. Mark Contg. Co., N and Winghocking Sts., Belfield and Cliveden Sts. $20,471, from Butler & Orlando, 5747 Vine St., Cemetery Ave., Chelwynde, Este, Guyer, Island, Sylmar, 57th, 58th, 65th, 68th, 69th and 74th Sts. $22,556, from J. F. Nolen & Sons, 64 Church Lane, Colonial, Smedley and 16th Sts. $12,418, from J. H. McKay, 4437 North 9th St., Gates St. $5,681, and Glen Echo St. $20,150, from T. Conner, 3621 North 5th St., Large and Longshore Sts. $3,382, Philmont St. $7,926, from Dewees Bros., 5th St. and Fishers Ave., Penn, Tilden and Vaux Sts. $35,070, from McCarrick Bros., 3240 North Fox St., 31st, 34th, Spangler and Westmoreland Sts. $5,253, from L. Dolente, 5122 Master St., 68th St. $12,228; from Barber Asphalt Co., 239 North 30th St., asphalt paving (assessment work) Bowman and Vaux Sts. $316,112, Sherwood and 69th Sts. $22,079, 21st St. $8,345, Dudley, Hoffman and Wilder Sts. $19,687, hiring 5 ton rollers $4,350; from Mack Paving & Constr. Co., Nicetown Lane and Luzerne Sts., asphalt paving (assessment work) 20th St. $14,572, asphalt repaving Clarion and Page Sts. $8,466; from Union Paving Co., 30th and Locust Sts., surfacing Terminal and 11th Sts. $139,914; from Eastern Asphalt Co., Penn Bldg., asphalt repaving Susquehanna St. $36,976; from United Paving Co., Real Estate Trust Bldg., redressed granite block repaving (track area) Baltimore St. $10,893, (track area) 16th St. $31,910, from Acchione & Caruso Paving Co., 804 South 12th St., 11th St. $60,825; from Good Roads Equipment Co., 1504 Locust St., repairing Lutz asphalt heaters $7,500; from E. Garlick, Sr., 2948 East Venango St., hiring motor trucks $24,900; and from West Jersey Sand & Supply Corp., Delaware Ave. and Marborough St., 2,000 tons Portland cement $17,500. Noted Mar. 4.

Maryland — State Rds. Comn., Garrett Bldg., Baltimore, Mar. 9, oiling roads in Group 3 66,430 gal. oil, Montgomery, Prince George and St. Marys Counties, and Groups 4 and 7, 146,451 gal. oil, Baltimore and Harford Counties, from E. P. Pendleton, 16 South Calverton Rd., $8,503 and $18,089 respectively; 62,955 gal. roads in Groups 1 and 2, Caroline, Cecil, Queen Annes, Wicomico and Worcester Counties, from U. G. I. Co., Broad and Arch Sts., Phila., Pa., $8,354; 90,075 gal. in Group 6, Allegany, Frederick, Garrett and Washington Counties, from Atlantic Refining Co., 291 Bway., New York City, $12,277; 176,757 gal. roads in Group 5, Carroll,

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Streets and Roads (Continued)

Frederick, Howard and Montgomery Counties, from Earle & Lansdale Co., 173 Main St., Hackensack, N. J., $22,377; and 182,478 gal. in Group 3, Anne Arundel, Calvert, Charles and St. Marys Counties, from Barrett Co., Warwick and Mulberry Sts., Baltimore, $27,189. Noted Feb. 25.

Md., Baltimore — Bd. Awards, Mar. 19, concrete paving 4,160 sq.yd. streets listed in Contr. 313 and 6,300 sq.yd. in Contr. 312, from Arundel Constr. Co., Knickerbocker Bldg., $10,425 and $18,116 respectively; sheet asphalt paving 12,200 sq.yd. in Contr. 310, from Amer. Paving & Constr. Co., Montebello Ave. $32,975, 6,950 sq.yd. Contr. 311, from P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R., (a) $57,791, (b) and from Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $69,300. Noted Mar. 4.

Md., Towson—Baltimore Co., Courthouse, concrete paving 1.17 mi. Worthington Ave., and 0.2 mi. Tufton Ave., (Group 2), from H. T. Campbell & Sons Co., Towson, $38,-757. Noted Mar. 4.

O., Cincinnati — Comrs. Hamilton Co., grading, guttering and concrete paving 18,-320 sq.yd. Camargo Pk. from corporation line of Cincinnati to corporation line of Maderia, from Biegler Bros., Franklin, $119,068. Engrs. est. $130,623. Noted Mar. 11.

Michigan—Jackson Co., graveling 1.8 mi. road in Blackman Twp. from W. E. Bowler, Clare, $13,670; grading and graveling 2 mi. road in Rives Twp. from Briggs & Worden, Dansville, $13,792, grading above road and 3 mi. connecting road through Sandstone and Spring Arbor Twps., from Hudson & Coons, Lansing, $6,004 and $9,972 respectively, 2.7 mi. road Halls Corners-County line Rd., Concord Twp., from Kline Bros., Mendon, $16,482.

Wis., Chilton — A. J. Pfeffer, city clk., Mar. 2, grading, curbing, guttering and paving 11,500 sq.yd. 5 streets, from F. Radloff Co., Plymouth, one course concrete $2.22 per sy.yd., two course concrete $2.41 and vibrolithic concrete $2.37; from F. P. Coughlin Co., 1735 Fullerton Ave., Chicago, Ill., asphaltic concrete $3 per sq.yd. and sheet asphalt $3.10. Noted Jan. 28.

Wis., Kenosha—C. M. Osborn, city mgr., Feb. 25, from Ford Paving Co., Cedar Rapids, Ia., improving various streets, 68,-560 lin.ft. concrete curbing and guttering at $0.69 per lin.ft., 52,100 cu.yd. excav. $0.50, 106,600 sq.yd. brick paving $3.30 and $3.60, sheet asphalt $2.28; and from Bryant Paving Co., Waterloo, Ia., asphaltic concrete paving $2.03, and rein.-con. paving $2.05. Noted Jan. 14.

Minn., St. Paul—A. E. Eggert, city purch. agt., approximately 7,473 sq.yd. 3 in. brick on 7 in., 8,867 sq.yd. brick on 8 in. concrete and 7,135 sq.yd. sheet asphalt paving South Robert St. between Fillmore Ave. and Congress St., from Fielding & Shepley, 216 University Ave., $63,449. Noted Feb. 25.

Neb., Omaha — J. P. Hoctor, city clk., Mar. 2, paving with (a) asphalt (b) brick (c) asphaltic concrete (1) 905 yd. Dist. 2347 (2) 3,048 yd. Dist. 2564 (3) 3,069 yd. Dist. 2582 (4) 896 yd. Dist. 2798 (5) 3,085 yd. Dist. 2822 (6) 1,645 yd. Dist. 2842 (7) 1,170 yd. Dist. 2844 (8) 1,047 yd. Dist. 2851 (9) 1,333 yd. Dist. 2852 (10) 816 yd. Dist. 2854 (11) 641 yd. Dist. 2860 (12) 3,117 yd. Dist. 2895 (13) 3,015 yd. Dist. 2900 (14) 1,017 yd. Dist. 2901 (15) 4,162 yd. Dist. 2917 (16) 5,106 yd. Dist. 2935 (17) 13,075 yd. Dist. 2957 (18) 916 yd. Dist. 2958 (19) 1,062 yd. Dist. 2970 (20) 1,161 yd. Dist. 2975, and (21) 6,283 yd. Dist. 2977, from J. Kern Constr. Co., 1809 Dodge St., (a1) $2.71 per yd. (a4) $2.71 (a7) $2.58 (c7) $2.29 (a10) $2.60 (c10) $2.43 (a11) $2.71 (a12) $2.59 (c12) $2.27 (a13) $2.59 (c13) $2.27 (a14) $2.55 (c14) $2.22 (a15) $2.59 (c15) $2.27; from J. Sherlock, 1805 Dodge St., (c1) $2.43 (a3) $2.57 (c3) $2.27 (c4) $2.44 (a6) $2.59 (c6) $2.29 (a8) $2.59 (c8) $2.29 (a9) $2.59 (c9) $2.29 (c11) $2.44 (a19) $2.59 (c19) $2.29 (a20) $2.59 (c20) $2.29 (a21) $2.62; from G. Parks Constr. Co., 310 Karbach Bldg., (b1) $3.05 (b4) $3.09 (b6) $3.05 (b7) $3.05 (b8) $3.05 (b9) $3.05 (b10) $3.05 (b11) $3.09 (b12) $3.05 (b13) $3.05 (b14) $3.05 (b15) $3.05 (a18) $2.83 (b18) $3.05 (b20) $3.05 (b21) $3.04 (c21) $2.26; from J. J. Parks Co., (b1) $3.05 (a2) $2.54 (b8) $3.05 (c2) $2.21 (b3) $3.05 (b4) $3.09 (a5) $2.51 (b5) $3.05 (c5) $2.20 (b6) $3.05 (b7) $3.05 (b8-9-10-12-13-15) $3.05 each (a16) $2.53 (b16) $3.05 (c16) $2.22 (b17) $3.03 (a18) $2.83 (b18) $3.05 (c18) $2.53 (b19) $3.03 (b20) $3.05; and from Natl. Constr. Co., 310 Arthur Bldg., (a17) $2.54 and (a21) $2.62. Noted Feb. 25.

Colorado—State Hy. Dept., Denver, Feb. 25, gravel surfacing 3.877 mi. Federal Aid Project 213-D, La Plata Co., from Wood Morgan & Burnett Co., Durango, $50,341, 1.779 mi. Federal Aid Project 298-A, Archuleta Co., from J. A. Duncan, 2011 North Royer St., Colorado Springs, $22,466; also bridging and gravel surfacing 2.727 mi. Federal Aid Project 258-B, Gunnison Co., from Lambie-Bate Constr. Co., 2311 10th St., Denver, $65,374.

Calif., Colusa—Colusa Co., Mar. 2, grading, graveling, 3 in. asphaltic concrete paving 505,000 sq.yd. East Side Rd., from Force, Currigan & McLeod, Syndicate Bldg., Oakland, $50,517; 3 in. asphaltic concrete paving 293,000 sq.ft. Prize College City Rd., from Valley Paving & Constr. Co., Visalia, $31,937. Noted Jan. 28.

Calif., Glendale — Mar. 18, by City Trustees, improving Ivy St. and San Fernando Rd., 34,114 sq.ft. grading, 16,375 sq. ft. 5 in. oil macadam paving, 3,219 sq.ft. 8 in. concrete paving, etc.

Calif., Los Angeles—From W. J. Curren, 221-A Bway. St., improving Virginia Ave. and Wilton Pl., 198,740 sq.ft. 6 in. concrete paving $0.1875 per sq.ft., etc., total $43,950; from Brockman & O'Brien, 1566 Murray Circle, portion of Whitmore Ave., grading $5,000, 61,515 sq.ft. concrete paving $0.208, etc., total $34,705; from G. H. Oswald, 366 East 58th St., improving Verdon Ave. between Adams and Jefferson Sts., 35,400 cu. yd. cut $32,000, 746,817 sq.ft. 5½ in. Warrenite paving $0.238 per sq.ft., sanitary sewer $60,000, etc., total $319,085.

Calif., San Diego—Common Council, Mar. 8, from G. R. Daley, 4430 Boundary St., improving Louisiana and Texas Sts., 102,-699 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete paving, $0.219 per sq.ft., 5,172 sq. ft. concrete sidewalk $0.22, 1,170 lin.ft. concrete curbing $0.65, etc., total $29,655; from L. J. Turner, 205 East 1st St., Long Beach, Upas, Palm, Nutmeg Sts., etc., 12,-184 cu.yd. excav. $0.68, 450,842 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete paving $0.1765, 49,450 sq.ft. concrete sidewalk $0.17, and 10,312 lin.ft. concrete curbing $0.60, etc., total $138,581. Noted Feb. 25.

Calif., Santa Ana—Supervs. Orange Co., Mar. 2, 4 ft. concrete slab widening Santa Ana Canyon Rd., from United Concrete Pipe & Constr. Co., P. O. Box 6, Ventura, $75,150. Noted Feb. 25.

Contracts Awarded

N. J., Newark—Repaving Frelinghuysen Ave. from Miller to Dayton Sts., to J. B. Gilligan-Casey Co., 972 Broad St., Newark, $306,928.

N. J., Newark — To Standard Bitulithic Co., foot Brill St., Newark, grading, curbing and sheet asphalt paving Chapman St. $17,-891, Fleetwood Pl. $11,844, Netherwood Pl. $18,701, Mt. Vernon Pl. $20,862, and Noble St. $13,260; to J. B. Gilligan-Casey Co., 972 Broad St., paving Ellery Ave. $43,379; to Delaney & Sons, 349 Parker St., grading when and where directed in Port Newark, $21,150. Total $147,087.

Md., Towson — Baltimore Co., concrete paving 1.22 mi. Pittsburg Ave. from Dundalk to Sollers Point, to Christhiff & Ensey, 1625 Ridgely St., Baltimore, $38,009. Noted Mar. 11.

Virginia — State Hy. Comn., Richmond, grading, bridging and surfacing 5.5 mi. Route 32, Project F-153-A, Charlotte Co., to C. R. Sanderson, Cartersville, $26,006; 4.6 mi. Route 12, Sect. F-186-B, Pittsylvania Co., to Allport Constr. Corp., Richmond, $104,655; 2.7 mi. Route 111, Project S-299-A, Buchanan Co., to Brown, Murphy, Wright Co., Princeton, W. Va., $49,710; 3.5 mi. Route 37, Project F-407, Richmond Co., to Bettershill & Goode, Virgilina, Va., $19,415; 7.5 mi. Route 31, Project F-420-A, Dinwiddie Co., to Weinbrunn & Carpenter, Chester, $224,751. Grand total $424,537. Noted Feb. 1.

W. Va., Milton—Common Council, 3 in. brick on 5 in. concrete paving Smith and other streets, to Gershaw & McGinnis, 1748 12th St., Huntington, $45,000. Noted Feb. 4.

North Carolina — State Hy. Dept., Raleigh, to Coastal Constr. Co., Henderson, improving 1.3 mi. Project 423, Franklin Co., 2,400 cu.yd. common excav. and borrow at $0.60 per cu.yd., 13,750 sq.yd. concrete $1.65, 12,220 sq.yd. asphaltic concrete $1.03, total $36,714; to W. E. Graham, Mt. Ulla, 4.7 mi. Project 838, Henderson Co., 19 acres clearing $50, 500 cu.yd. drainage ditch excav. $0.60, 55,200 cu.yd. common rock and borrow excav. $0.55, etc., total $38,913; to J. F. Mulligan Constr. Co., North Wilkesboro, clearing, grading and gravel on broken stone surfacing 6.86 mi. Project 715, Ashe Co., $118,854. Grand total $194,481. Noted Feb. 18.

Florida — State Rd. Dept., Tallahassee, broken stone base on Projects 617 and 618, Alachua Co., to L. M. Gray, New Smyrna, $225,566; clearing, grubbing, grading, etc. Project 644-A, Wakulla Co., to Gillis Constr. Co., Chipley, $43,061; rein.-con. structures on Project 633-B, Gadsden Co., to Montgomery & Parker, Rockport, Ind., $35,993. Grand total $304,620. Noted Feb. 11.

Ala., Birmingham — City Comn. (e. e. means engineers estimate) asphalt paving 4 blocks 7th Ave. S and 18th St. S., 60 ft., to J. L. Mullarkey, 2400 Ave. J, (Ensley), $10,004, e. e. $14,300; 6 blocks 20th St. and Ave. J. (Ensley), 40 ft., to Morgan-Hill Paving Co., Woodward Bldg., $22,348, e. e. $26,580; 3 blocks 59th St. N., 60 ft., to Independent Paving Co., Amer. Trust Bldg., $8,371, e. e. $8,150; 6 blocks Pike Rd., 40 ft., to H. N. Bowdry, Alabama Power Co. Building, $22,712, e. e. $47,150; 3 blocks 17th St. N., 40 ft., to Federal Asphalt Paving Co., Amer. Trust Bldg., $6,984, e. e. $8,300; 2 blocks 25th St. N., 60 ft., and 2 blocks 15th Ave. N., 40 ft., to Dunn Constr. Co., Chamber Commerce Bldg., $6,743 and $11,111 respectively, e. e. $8,050 and $12,600 respectively. Grand total $88,273. Noted Feb. 4 and 11.

Miss., Columbus—C. M. Reeves, city clk., grading, curbing, guttering and sheet asphalt on concrete paving 40,000 sq.yd. various streets, to Morgan-Hill Constr. Co., Woodward Bldg., Birmingham, Ala. Noted Feb. 25.

Miss., Quitman — Bd. Supervs. Clarke Co., improving 14.724 mi. Federal Aid Projects 78-A and 83-B, 87,118 cu.yd. excav., 43,965 cu.yd. borrow, 1,025 ft. 15 and 18 in. culvert pipe, 72,249 lbs. reinforcing, etc., also bridges over 20 ft. span, to Champenois & Blanks, Meridian, $110,-813. Noted Feb. 18.

La., Shreveport—Asphaltic concrete paving about 5 blocks Creswell St. from Stephenson St. to city limits, to Flenniken Constr. Co., Shreveport, $25,709.

O., Akron—W. F. Peters, dir. Pub. Serv., grading, curbing and vitr. brick paving, etc., 2,400 sq.yd. Moreley Ave., to Columbus Asphalt Paving Co., 304 Buckeye Bldg., $19,242. Engrs. est. $25,000. Noted Mar. 11.

O., Akron—W. F. Peters, dir. Pub. Serv. (e. e. means engrs. est.), grading, curbing, sidewalks and vitr. brick paving 1,255 sq.yd. Portage Dr. and 1,655 sq.yd. Dorchester Rd., to Columbus Asphalt Paving Co., 304 Buckeye Bldg., $7,818 and $12,800 respectively, e. e. $9,500 and $14,600 respectively, 2,680 sq.yd. Oakland Ave., and 5,925 sq.yd. Berwin St. et al, to McCourt Constr. Co., 369 South Main St., $13,577 and $37,-524 respectively, e. e. $17,000 and $47,600 respectively, 2,940 sq.yd. Alfaretta Ave. and 3,500 sq.yd. Ruby Ave., to T. E. McShaffrey Constr. Co., 173 South Forge St., $19,342 and $24,861 respectively, e. e. $23,700 and $30,350 respectvlely; grading and cindering, etc., 525 cu.yd. Ranney St., to T. Zuppa, 55 North 11th St., Kenmore, $6,088, e. e. $7,600, 800 cu.yd. Tulip St., to M. Kalain, 573 Wilson St., $5,666, e. e. $7,000, 1,200 cu. yd. Whitney Ave. and 375 cu.yd. Whittier Ave., to Guran & Brancich, 429 Matthews St., $10,903 and $3,587 respectively, e. e. $13,600 and $4,200 respectively. Grand total $142,166. Noted Feb. 18.

O., Columbus—Comrs. Franklin Co., to W. C. Moore, Marysville, grading and bituminous macadam paving 1.904 mi. Joyce Ave. $57,773, waterbound macadam paving 1.75 mi. Cassady Ave. $42,273, 2.42 mi. Livingston Ave. $56,128, to J. M. Snouffer, 2175 Tremont Rd., 1.05 mi. Avery Rd., Impvt. 3 $16,543, to R. K. McNamara, Delaware, 0.89 mi. East College Ave. $17,-463, to W. M. Gray, 408 Fairwood Ave., 1.23 mi. Rogers Rd. $33,768, to S. M. Wooly Marion, 0.42 mi. Strimple Rd. $13,671 and bituminous macadam paving 1.824 mi. Impvt. 2, Indianola Ave. Rd. $42,128. Grand total $279,747.

O., Dayton — Comrs. Montgomery Co., concrete, sheet asphalt, rock asphalt or macadam paving College Hill Plat, to W. I. Anderson, New Troy Pike, $57,825; Hoover Ave., to W. S. Little, 1209 Everett Dr., $80,213; streets in Belmont Plat, to C. C. Adams, 415 Kenwood Ave., $66,781; and Fairview Ave., to R. P. Sebold, Ludlow Bldg., $56,213. Grand total $261,032. Noted Feb. 25 and Mar. 4.

Mich., Muskegon—To Globe Constr. Co., 462 Portage St., Kalamazoo, sheet asphalt on concrete paving 4,374 sq.yd. 3rd St., H.-S1 $6,667, 2,071 sq.yd. Schuyler St., H-158 $9,430, 5,725 sq.yd. Forest Ave. and Clinton St., H-169 $7,900, and 3,988 sq.yd. Merrill Ave., H-187 $17,297; to Whitlowe & Hobeck, South Haven, concrete paving 4,850 sq.yd. Larch Ave., H-136 $15,434, 3,101 sq. yd. East Southern Ave., H-179 $10,237, 2,509 sq.yd. Delaware Ave., H-181 $8,422, 2,570 sq.yd. West Southern Ave., H-185 $8,390, and 5,769 sq.yd. Nims St., H-194 $15,846; to O. P. Carpenter, 800 Sanford St., Muskegon, 3,118 sq.yd. Moon St., H-83 $10,074. Grand total $109,697. Noted Feb. 18.

Ill., East St. Louis — Grading, curbing, sewers, guttering and 8 in. concrete paving 3,860 sq.yd. 42nd St., to Moore Constr. Co., 925 North 8th St. Engrs. est. $27,700. Noted Feb. 25.

Ill., Macomb—Grading, curbing and brick on concrete paving 8,505 sq.yd. East Pierce St., to F. J. Specht, Bushnell, $31,186.

Streets and Roads (Continued)

Ill., St. Charles—Grading, curbing and 8 in. rein.-con. paving various streets, to Illinois Hydraulic Stone & Constr. Co., Elgin, $111,111. Noted Feb. 18.

Wis., Two Rivers—R. Biehl, city mgr., vibrolithic concrete paving, etc. 30,000 sq.yd. various streets, to E. J. Streu, Two Rivers, $56,815. Noted Mar. 11.

Ia., Carroll—Bd. Supervs. Carroll Co., improving 7.166 mi. Federal Aid Project 154-E and D, 142,574 cu.yd. excav., 168,741 sta. overhaul, etc., to Bacon & Duffy, Mankato, Minn., $38,000, 31 concrete culverts and extensions, to Jensen Constr. Co., Kimballton, $16,000; one 90 ft. x 20 ft. pony truss and one 32 ft. x 24 ft. deck girder bridge, to Jensen Bros., Thompson, $25,000. Grand total $79,000. Noted Feb. 11.

Ia., Carroll—Carroll Co., grading 7.166 mi. primary road south of here, to Daufenbach, Bacon & Duffy, Mankata, about $38,000. Engrs. est. $35,000.

Ia., Centerville — Appanoose Co., improving 4.933 mi. Federal Aid Project 239-A, 76,950 cu.yd. excav., 660 ft. 15 in. and 160 ft. 18 in. culvert pipe, 50,900 sta. overhaul, etc., to Ryan Bros., Missouri Valley, approximately $25,000.

Ia., Clarion — Wright Co., to C. Byers, Austin, Minn., improving road near here, incl. 35,355 cu.yd. gravel 1 mi. haul at $0.30 per cu.yd., and 152,777 cu.yd. ½ mi. overhaul $0.07. Owner furnishes 1,400 cu. yd. gravel f.o.b. Cornelia and 1,081 cu.yd. Clarion.

Ia., Le Mars — Auditor Plymouth Co., grading, curbing and concrete paving 195,990 sq.yd. Sioux City Rd., to Bryant Paving Co., Waterloo, $435,297. Engrs. est. $500,000.

Ia., Ottumwa—Grading, curbing and 6 in. concrete paving 34,153 sq.yd. Milner, Ransom, Willard and Hancock Aves., to R. C. Nelson, Warner Apts., Council Bluffs. Engrs. est. $142,473. Noted Feb. 18.

Minnesota — State Hy. Dept., St. Paul, concrete paving 143,035 sq.yd. State Project 1-44, Sects. 7, Federal Aid Project 372, and 5,102 sq.yd. Sect. 8 same project, to Richards & Farrell, 415 Lake Ave. S., Duluth, $191,900 and $48,936 respectively. Noted Jan. 14.

N. D., Fargo—F. F. Doherty, aud. Cass Co., grading, etc. 61,104 cu.yd. Federal Aid Project 267-A, and 87,792 cu.yd. Federal Aid Project 268-B, to W. H. Noel, Jamestown, $24,278 and $36,068 respectively.

S. D., Yankton—Cedar Co., grading and gravel surfacing 6.7 mi. Fordyce Highway, to Peterson, Shirley & Gunther, 1411 W. O. W. Bldg., Omaha, Neb., $25,028; and bridge on same road, to Western Bridge & Constr. Co., 748 Peters Trust Bldg., Omaha, Neb., $13,208.

Mo., St. Louis—See "Unclassified."

Mo., Springfield—Concrete paving, etc., Nettleton St. between Nichols and College Sts., to E. V. Koch, 426 North Moffett St., Joplin, $26,238; Pacific St. between Jefferson and Boonville Sts., to Stigall Constr. Co., Benton and Talmadge Sts., $5,527; and Arcade Alley, to H. Prosperi, 1220 North Campbell Ave., $328. Grand total $32,093.

Ark., Little Rock — Grading, curbing, guttering, and rein.-con. paving, etc. 9,800 sq.yd. streets in Paving Dist. 436, to G. Garms, Home Insurance Bldg., $22,485. Noted Feb. 4.

Ark., Malvern—Grading, curbing, guttering, and Warrenite paving, etc. 11,197 sq.yd. streets in Paving Dist. 1, to C. L. Besler, Hot Springs, $50,968.

Ark., Rogers—Grading, curbing, guttering and 6 in. vibrolithic concrete paving 7,822 sq.yd. Paving Dist. 11, to D. C. Horton, Ft. Smith, $24,176.

Tex., Beaumont—Paving 5 blocks Highland Ave., Pecos Blvd. and 2 alleys, to Uvalde Rock Asphalt Co., Beaumont, $25,738.

Tex., Georgetown—G. Keahey, city secy., Uvalde rock asphalt paving 40,000 sq.yd. various streets, to W. E. Dozier, Austin Natl. Bank Bldg., Austin, $125,000. Noted Feb. 4.

Okla., Ryan—Grading, curbing, guttering and vertical fibre brick paving 9,032 sq. yd. Main St., to A. L. Cook, Ottawa, Kan., $37,320. Engrs. est. $38,866. Noted Dec. 17.

Wash., Montesano—Comrs. Grays Harbor Co., clearing, grubbing and grading Permanent Highway 29, to Peck & Arnerson, Hoquiam, $37,000. Engrs. est. $40,000.

Oregon — State Hy. Dept., Olympia, broken stone surfacing 9.4 mi. Baker Unity Highway, Baker Co., to Harness & Colby, Roseburg, $35,225; 9.61 mi. Dallas-California Highway, Deschutes Co., to C. Nyberg, Spokane, Wash., $86,285; and 4.55 mi. same road, Jefferson and Deschutes Counties, to Kibler & Bartlett, Albany, $28,520. Grand total $150,030.

Calif., Arcadia—City Trustees, grading, 6 in. oil macadam paving, etc. Huntington Dr., etc., to Mathews & Bartlett, Braley Bldg., Pasadena, $28,035. Noted Feb. 25.

Calif., Coronado — Improving Pamona Ave., 5,816 lin.ft. cement curbing, 7,304 cu. yd. excav., 18,535 sq.yd. 4 in. oil macadam paving, etc., to R. E. Hazard Contg. Co., 2548 Kettner Blvd., San Diego, $28,792.

Calif., Larkspur—Concrete paving Bridge Rd., to M. C. McDonald, 236 2nd St., Sausalito, $22,618.

Calif., Los Angeles—Supervs. Los Angeles Co., curbing, guttering, grading, etc. Palm Ave., Impvt. 497, to H. & P. Constr. Co., 5535 South Western Ave., $75,705. Noted Mar. 11.

Calif., Los Angeles—Bd. Pub. Wks. improving Pico Blvd., between Crenshaw and Exposition Blvds., to North-Pacific Constr. Co., Detwiler Bldg., $1,034,885. Noted Mar. 4.

Calif., Martinez—Supervs. Contra Costa Co., grading and widening Tunnel Highway between Buckley Ranch and Oak Villa, to J. P. Holland, 540 Brannan St., San Francisco, $44,310. Noted Feb. 18.

Calif., Mountain View—Warrenite paving and c.i. mains, etc., in various streets, to Union Paving Co., Call Bldg., San Francisco, $137,575. Noted Mar. 11.

Calif., Oroville—C. F. Belding, clk. Butte Co., will construct Sect. "B" Oroville-Chico Rd., by day labor. Former bids rejected. H. H. Hume, co. road engr. Noted Feb. 18.

Calif., Salinas—City Council, M. R. Keef, city clk., grading, surfacing, guttering, curbing, and 2½ in. asphaltic concrete paving portion of South Main St., to Granite Constr. Co., Watsonville, $26,398. Noted Feb. 25.

Calif., San Anselmo—Curbing, guttering, grading, paving, etc., Richmond Rd., Mariposa and Bell Aves., to Valley Paving & Constr. Co., Visalia, $89,083. Noted Mar. 4.

Calif., San Diego — Supervs. San Diego Co., improving San Diego Blvd., etc., in Vista Dist., 10,845 lin.ft. cement curbing, 20,884 sq.ft. cement guttering, 20,188 sq.ft. cement sidewalk, 22,810 cu.yd. excav., 30,299 sq.yd. 2½ in. oil macadam paving, to R. E. Hazard Contg. Co., 2548 Kettner Blvd., $48,712.

Calif., San Diego—Common Council, improving Dale, Draper, Bonair, Marine and Genter Sts., to H. H. Peterson, Spreckels Bldg., $25,691. Noted Jan. 14.

Calif., San Diego — Common Council, grading, concrete sidewalk and curbing, etc. 32nd St. and Greely Ave., to H. G. Fenton, 1980 Main St. $26,617. Noted Feb. 18.

Calif., San Luis Obispo—Supervs. San Luis Obispo Co., improving Coast Highway, 10,000 cu.yd. grading, 40,800 tons asphaltic concrete paving, etc., to Southwest Paving Co., Washington Bldg., Los Angeles, approximately $260,000. Noted Feb. 18.

Calif., San Rafael—Supervs. Marin Co., grading, surfacing, etc., Red Hill Rd., to W. Moreing, Harris Bldg., Stockton. $16,340. (County to furnish culverts). Noted Mar. 4.

Calif., Santa Barbara—Curbing, guttering, walks and 1½ in. asphaltic concrete on 5 in. concrete paving Haley St. between Coronel and Chapala Sts., to Cornwall Constr. Co., 227 Equestrain St., approximately $50,000.

Calif., Santa Cruz—S. A. Evans, city clk., grading, curbing, concrete paving, etc., portions of Market and Washburn Sts., etc., to Thompson Bros., Divisadero and H Sts., Fresno, $43,005. Noted Mar. 11.

Calif., Santa Cruz—S. A. Evans, city clk., grading, curbing, guttering and 5 in. concrete paving, etc. portions of Mission, River and Vine Sts., etc., to Granite Constr. Co., Watsonville, $63,196. Noted Mar. 4.

Calif., Santa Rosa—Supervs. Sonoma Co., grading, concrete paving, etc. Healdsburg-Dry Creek Highway, to Conners, Hansen & Ede, Rosenberg Bldg., $41,215. Noted Feb. 25.

Buildings—Commercial

Proposed Work

Mass., Boston — APARTMENT — A. C. Bottomley, archt., 100 Tremont St., preparing plans 5 story and basement, 40 x 60 ft., rein.-con., brick and stone, Back Bay Dist. Owner's name withheld. $150,000.

Mass., Boston — HOTEL — Metropolitan Realty Co., Inc., 280 Madison Ave., New York City, having sketches made by Crane & Frenxheim, engrs. and archts., 345 Madison Ave., New York City, 14 story and basement, Commonwealth Ave. near Cottage Farm Bridge.

Mass., Somerville (br. Boston)—HOTEL —G. Vatigian, Odd Fellows Bldg., having sketches made by J. Tuck, 439 Park Sq. Bldg., Boston, 10 story, 150 x 200 ft. hotel, 291 Bway. To exceed $150,000.

Mass., Springfield — BANK — Ch[illegible] Natl. Bank, G. A. MacDonald, pres., [illegible] bank and office, Main St. $200,000. [illegible] neer and architect not selected.

Mass., Waltham (Ind. br. Boston) — HOTEL—City, c/o Chamber of Com[illegible], plans hotel. To exceed $150,000. En[illegible] and architect not selected.

Conn., Hartford — GARAGE, OFF[illegible], etc.—Mar. 16, by Hartford City Gas [illegible] Co., 565 Main St., and Mylchre[illegible] & Reynolds, archt., Hartford, 3 story, t[illegible], Potter and Mechanic Sts. $160,000.

Conn., New Haven — STORE and OFFICE—A. L. Starin, 628 George St., [illegible] 6 story, store and office, Orange St. $150,[illegible]

Conn., New Haven—STORE and OFFICE —H. F. English, 839 Chapel St., plans 6 story, store and office, Chapel St. $4[illegible] 000. F. W. Woolworth Co., 834 Chapel St., lessee.

N. Y., Brooklyn—OFFICE—J. F. J[illegible] & Sons, 193 Montague St., having pre[illegible] liminary plans prepared by M. E. Fre[illegible], 135 East 43rd St., New York City, 13 story, brick, steel and stone, plain foundation. 142 Joralemon St.

N. Y., Brooklyn—Y. W. C. A., 3rd and Schermerhorn St., soon takes bids brick, steel and stone, plain foundation, 3rd and State Sts. $300,000. F. L. Ackerman, 25 West 44th St., New York City, engr. and archt. Noted Dec. 10.

N. Y., Freeport — HOTEL — Owner, c/o H. J. Krapp, engr. and archt., 1 West 47th St., New York City, soon takes bids 4 story, brick, steel and stone, plain foundation, here. $200,000.

N. Y., Montauk—HOTEL—Mar. 17 (extended date), by Montauk Beach Development Corp., C. G. Fisher, 52 Vanderbilt Ave., New York City, brick, steel and stone, plain foundation, here. Schultze & Weaver, 17 East 49th St., New York City, archts. Noted Mar. 11.

N. Y., New York—APARTMENT—Dura Realty Corp., c/o S. J. Sheridan, engr. and archt., 5656 Newton Ave., having plans prepared 6 story, brick, steel and stone, plain foundation, Rochambeau Ave. $250,000.

N. Y., New York — APARTMENTS — Franz Siegel Park Apartments, Inc., c/o J. M. Felson, engr. and archt., 250 West 57th St., having plans prepared two 6 story, brick, steel and stone, plain foundations, Mott Ave. $400,000 each.

N. Y., New York—CLUB—Cinema Club of America, Inc., D. R. Hochreich, chn., c/o H. Craig Severance, engr. and archt., 36 West 44th St., having plans prepared 22 story, brick, steel and stone, plain foundation, 150 West 59th St. $5,000,000.

N. Y., New York—CLUBHOUSE—Natl. Town & County Club, 17 East 42nd St., soon takes bids on revised plans 26 story, brick, steel and stone, plain foundation, Lexington Ave. and 48th St. $5,000,000. G. B. Post & Sons, 101 Park Ave., engrs. and archts. Noted Sept. 24.

N. Y., New York—LOFT—Schuyler Development Corp., c/o Shampan & Shampan, engrs. and archts., 188 Montague St., Brooklyn, having plans prepared 23 story, brick, steel and stone, plain foundation, 553 8th Ave., here. $1,200,000.

N. Y., New York—LOFT—Bas Realty Corp., c/o H. I. Oser, engr. and archt., 1440 Bway., having plans prepared 16 story, brick, steel and stone, plain foundation, 29th St. and 5th Ave.

N. Y., New York—LOFT—Kymsen Building Corp., c/o Parker & Schaefer, engrs. and archts., 280 Madison Ave., having preliminary plans prepared 18 story, brick, steel and stone, plain foundation, 10th Ave., 33rd and 34th Sts. $4,000,000.

N. Y., New York — OFFICE — Consol Realty Co., c/o Starrett & Van Vleck, engrs. and archts., 393 7th Ave., having plans prepared 42 story, brick, steel and stone, plain foundation, 42nd St. near 6th Ave. $8,000,000.

N. Y., Pelham (Ind. br. New York)—APARTMENT—G. F. Pelham, Jr., pres. Pelham Gables, 200 West 72nd St., New York City, having plans prepared by G. F. Pelham, engr. and archt., 200 West 72nd St., New York City, 6 story, brick, steel and stone, plain foundation, 4th St. and 6th Ave. $400,000.

N. Y., Yonkers—THEATRE—J. E. Andrus, c/o T. W. Lamb, archt., 644 8th Ave., New York City, soon takes bids brick, steel and stone, plain foundation, South Bway. $1,000,000. R. D. Kimball, 15 West 38th St., New York City, engr.

N. J., Atlantic City—HOTEL—Sea Side Hotel, c/o F. P. Cooks, Sons soon lets contract 13 story, rein.-con., brick and steel, wood pile foundation, Pennsylvania Ave. near Boardwalk, Lockwood, Greene & Co., 24 Federal St., Boston, Mass., archts.

N. J., Trenton—BANK—Trenton Trust Co., Trenton, having plans prepared by Dennison & Hirons, engrs. and archts., 288 Lexington Ave., New York City, brick, steel and stone, plain foundation, here. $350,000.

BRIDGE—YONKERS, N. Y.

Bids were opened by Bronx Parkway Comn., 72 West Pondfield Rd. (lowest four and highest), Bronxville, for Bronx River Parkway Drive Bridge 6, over Bronx River, (A) Fox-Reynolds & Co., Inc., 81 East 125th St., New York (awarded contract); (B) J. Saso, 51 Warburton Ave.; (C) Triest Contracting Corp., 247 Park Ave., New York; (D) Carofano Construction Co., 1st National Bank Bldg., Mt. Vernon; (E) J. Palladino, Inc., 4179 Park Ave., New York. The unit bids are as follows:

	A	B	C	D	E
50 cu.yd. rock excavation	$10 00	$15 00	$12 00	$12 00	$15 00
5,500 cu.yd. earth excavation	2 00	3 00	2 40	2 50	5 50
2,500 cu.yd. earth fill	50	1 00	65	01	50
4,000 cu.yd. portland cement	3 50	3 15	3 50	3 50	3 50
1,400 cu.yd. class A concrete	16 00	15 00	16 00	18 00	23 50
50 cu.yd. class B concrete	14 00	15 00	15 00	18 00	18 00
2,500 sq.ft. concrete sidewalks	30	47	25	30	60
40 cu.yd. granite masonry	110 00	135 00	177 00	130 00	165 00
250 cu.yd. rubble masonry	35 00	40 50	37 00	40 00	37 50
137,000 lb. reinforcing steel	07	06	07	065	075
Falsework (lump sum)	5,000 00	4,000 00	4,000 00	4,000 00	6,500 00
1,400 sq.yd. waterproofing	3 00	1 15	2 15	1 50	1 50
500 sq.yd. rubber finish of concrete	70	1 00	1 50	1 00	1 30
20 ton cast iron pipe	80 00	75 00	84 00	100 00	130 00
100 lin.ft. 4 in. vitrified pipe	80	50	25	50	1 25
100 lin.ft. 12 in. vitrified pipe	2 00	1 00	1 25	1 00	3 50
350 lin.ft. 30 in. vitrified pipe	7 00	3 00	6 25	7 00	12 00
30 M.ft. B.M. wakefield sheet piling	80 00	90 00	185 00	50 00	200 00
20 cu.yd. brick manholes and curb inlets	45 00	50 00	50 00	40 00	45 00
Maintaining traffic (lump sum)	6,000 00	7,500 00	1,500 00	6,500 00	8,500 00
4,000 sq.yd. bituminous concrete pavement	2 00	2 00	2 50	2 25	5 50
225 sq.yd. relaying granite block pavement	2 00	3 00	3 50	4 50	5 50
800 lin.ft. ducts	45	1 00	25	50	90
1,050 cu.yd. reinforced concrete foundation for pavement	10 00	10 00	10 00	11 00	15 00
Extended totals	$115,830	$119,005	$120,435	$121,293	$179,433

Buildings—Commercial (Continued)

N. J., Trenton — TEMPLE — Masonic Temple Assn., Trenton, soon lets contract brick and steel, plain foundation, here $750,000. Hill & Gollner, Broad St. Bank Bldg., archts. D. F. Atkins, Grand Central Terminal Bldg., New York City, engr. Noted Jan. 22, 1925.

N. J., Trenton—THEATRE—G. B. Ten Eyck, 127 East State St., plans 2 story, $150 x 200 ft., theatre, Brunswick Ave. and Pine St. $200,000. Engineer and architect not selected.

Pa., New Castle—HOTEL—Syndicate, c/o H. B. Richards, treas., plans 150 room hotel. $800,000.

Pa., Phila. — WAREHOUSE — Horn & Hardart Co., 210 South 10th St., having preliminary plans prepared by R. Benckert, Bellevue Court, 8 story and basement, rein.-con., plain foundation, 10th and Locust Sts.

Pa., Pittsburgh—HOSPITAL—Montefiore Hospital Assn., having plans prepared by Schmidt, Garden & Martin, 104 South Michigan Blvd., Chicago, Ill., group of brick and stone hospital buildings, 5th Ave. and Darragh St. $1,500,000. Noted June 25.

Ga., Savannah—HOSPITAL—Central of Georgia Ry. Co., Savannah, C. K. Lawrence, ch. engr., having plans prepared by Schmidt, Gardner & Martin, 104 South Michigan Ave., Chicago, Ill., and soon takes bids 3 story, brick and tile hospital. $300,000.

Fla., Coral Gables — HOTEL, APARTMENT and MARKET—Miami Community Market, Inc., having plans prepared by B. F. Mitchell, 512 Northeast 15th St., Miami, 2 story, 186 x 265 x 317 ft., rein.-con. and tile, Anastasia St. $350,000.

Fla., Homestead — THEATRE — W. J. English plans 100 x 150 ft. theatre, Krone Ave. and 4th St. $150,000.

Fla., Jacksonville — HOTEL—Vanderbilt Hotel Corp., W. H. Marshall, pres., Park Ave. and 34th St., New York City, N. Y., soon takes bids hotel, here. $2,000,000. Warren & Wetmore, 16 East 47th St., New York City, N. Y., archts. A. L. Babbs, 10 East 47th St., engr.

Fla., Miami—BANK and OFFICE—Model Land Co., J. W. Hoffman, vice-pres., c/o Schultze & Weaver, engrs. and archts., 17 East 49th St., New York City, N. Y., making plans 12 story, brick, Southeast 1st St., here.

Fla., Miami — TEMPLE, etc. — Masonic Lodge, L. U. Martin, chn. building com., 620 Northwest 2nd St., having plans prepared by J. H. Sculthorpe, 206-8 Townley Bldg., 15 story, 100 x 150 ft., temple, incl. hotel, offices, restaurant, etc., Northeast 2nd Ave. and 21st St. $1,750,000. G. D. Mason & Co., Griswald St., Detroit, Mich., engrs.

Fla., Palatka—HOTEL—Palatka Hotel & Industrial Co., c/o J. E. Bennett, East Florida Savings & Trust Co., plans hotel. $500,000.

La., Shreveport—COURTHOUSE—Caddo Parish Police Jury, J. M. Sentell, pres., had plans prepared by E. F. Neild, 1206 City Bank Bldg., 8 story, 120 x 200 ft., rein.-con., gray limestone and brick, plain foundation. $1,000,000. Noted Nov. 26.

Miss., Jackson — INFIRMARY — Mississippi Insane Hospital, C. D. Mitchell, supt., plans group of buildings, Rankin Co., 8 mi. east of here. $2,500,000.

O., Cleveland—SALES and SERVICE—Studebaker Corp. of America, E. R. Parker, sales mgr., 2000 Euclid Ave., soon lets contract 1 story, 105 x 194 ft., brick, steel and concrete, West 117th St. near Clifton Blvd. $150,000. W. S. Ferguson Co., 1900 Euclid Ave., archts.

O., Columbus—AUDITORIUM—Aladdin Temple Nobles Mystic Shrine, North 4th St., having sketches made by Snyder & Babbitt, 16 East Broad St., Richards, McCarty & Bulford, 584 East Broad St., F. W. Elliott, 28 East Broad St., and Miller & Reeves, 20 South 3rd St., 9,000 seating capacity, brick, stone and concrete, Front St. $1,000,000.

O., Columbus—GARAGE and OFFICE—State St. Office Building Co., W. E. Schwartz, pres., had plans prepared by Architectural Serv. Co., 165½ North High St., 5 story and basement, 87½ x 158½ ft. brick, stone and concrete, East State St., $650,000.

O., Dayton—STORE—Liggett Drug Co., 41 East 42nd St., New York City, plans 2 story, rein.-con., brick and stone, plain foundation, 3rd and Main Sts. $200,000. Engineer and architect not selected.

O., Shaker Heights (Cleveland P. O.)—EXCHANGE — Mar. 15, by Walker & Weeks, archts., 1900 Euclid Bldg., Cleveland, 2 story and basement, 100 x 200 ft., brick and rein.-con., Kinsman and Melverton Rds., here, for Ohio Bell Telephone Co., C. P. Cooper, pres, 4300 Euclid Ave., Cleveland, $200,000. G. A. Kositsky, 4300 Euclid Ave. Cleveland, engr.

O., Toledo—OFFICE and THEATRE—Public Theatre Corp., 485 5th Ave., New York City, having plans prepared 7 and 15 story (2 wings), brick, steel and stone, plain foundation, Adams St. $5,000,000. Private plans.

Ind., East Chicago — STORE — Siefer Furniture Co. had plans prepared by K. D. Norris, East Chicago, 5 story, 50 x 100 ft., brick, steel and terra cotta store. $150,000.

Ind., Indianapolis—APARTMENT—H. J. Hibben, 131 South Meridian St., had plans prepared apartment, Washington St. and Emerson Ave. $150,000. Private plans.

Ind., Indianapolis—APARTMENT—T. A. Moynahan Constr. Co., 2063 North Meridian St., plans 3 story, brick, steel and rein.-con. apartment. $350,000.

Ind., Indianapolis — EXCHANGE, etc. — See "Unclassified."

Mich., Detroit—Y. M. C. A., A. G. Studer, genl. secy. Y. M. C. A. Bldg., plans 4 story and basement, 170 x 200 ft., rein.-con., brick and steel, plain foundation, Woodward and Winona Aves. $500,000. Architectural Bureau, Y. M. C. A., 2 West 45th St., New York City, N. Y., archts. Noted May 28.

Mich., Mt. Clemens — STORE and OFFICE—Union Title & Guarantee Co., Union Trust Bldg., Detroit, Mich., plans 2 story and basement, 100 x 110 ft., rein.-con., brick and steel, plain foundation, Gratiot Ave. $150,000. Architect's name withheld.

Ill., Chicago—APARTMENT—K. Rosenthal, 77 West Washington St., having plans prepared by Olsen & Urbain, 155 North Clark St., and takes bids in April or May, 14 story, 64 x 74 ft., rein.-con., brick and terra cotta, Chestnut St. and Ernst Court. $1,225,000.

Ill., Chicago—HOTEL—S. Cole, et al, 307 North Michigan Ave., having plans prepared by B. L. Steif & Co., 307 North Michigan Ave., 16 story, 100 x 172 ft. hotel, Walton Pl. near North Dearborn St. $1,750,000.

Ill., Chicago—HOTEL—Winthrop Bench Hotel Corp. (J. S. Du Puy & M. E. Dey, 6200 Kenmore Ave.), will not construct 4 story, 50 x 150 ft., 6250 Winthrop Ave. $300,000. Project abandoned. Noted Nov. 26.

Ill., Chicago — THEATRE, STORE and APARTMENT — R. G. Wolff, archt., 410 North Michigan Ave., soon takes bids masonry, structural steel plumbing, heating, etc. for 3 story, 135 x 225 ft., brick and terra cotta, Irving Park Blvd. and Austin Ave., for Mitchell Bros., c/o architects. Noted Mar. 4.

Ill., Rock Island—CITY HALL—Election Apr. 20, $200,000 bonds, 2 story, 7,000 sq.ft. floor space, 3rd Ave. and 16th St. Cervin & Horn, 310 Safety Bldg., archts. Noted Dec. 24.

Ill., Niles Center—OFFICE, etc.—Sanitary Dist. of Chicago, 910 South Michigan Ave., having plans prepared and takes bids about May 10, 2 and 4 story, 60 x 275 ft., office building, etc., Howard St., here. $1,250,000.

Ia., Bettendorf — SANITARIUM — Grand Lodge of Iowa A.F.A.M. F. Moses, secy., at Masonic Library, Cedar Rapids, soon lets contract 2 story and basement, 32 x 110 ft., and 38 x 150 ft., rein.-con., brick and stone, here. $150,000. Former bids rejected. E. Holbrook, 51 Whitaker St., Davenport, and Beuttler & Arnold, 405 Grain Exch. Bldg., Sioux City, archts. Noted Feb. 4.

Neb., Omaha—HOSPITAL—J. Latenser & Sons, archts., Peters Trust Bldg., rejected bids Feb. 17, 3 story and basement, brick addition, 42nd St. and Dewey Ave., for University of Nebraska Hospital. $150,000. Noted Feb. 4.

Mo., Excelsior Springs—HOTEL—A. E. Cooper, Royal Hotel, will not construct rein.-con. and brick hotel. $200,000. Project abandoned. Noted June 11.

Mo., St. Louis — MORGUE — Bd. Pub. Serv., 208 City Hall, having revised plans prepared by L. R. Bowen, archt. and engr., 301 City Hall, 1 and 2 story, 88 x 130 ft., rein.-con., brick and terra cotta morgue. $200,000. Former bids rejected. H. Updike, 301 City Hall, engr. Noted Mar. 4.

Buildings—Commercial (Continued)

Tex., Dallas — DORMITORY — C. W. Snider, City Natl. Bank Bldg., Wichita Falls, plans 50 room, brick, stone, steel and rein.-con. dormitory, near Southern Methodist University campus, here. $150,000. Engineer and architect not selected.

Tex., Mineral Wells—HOTEL—Owner, c/o J. M. Chamberlain, secy. Chamber of Commerce, plans brick, stone, steel and rein.-con. hotel. $200,000. Engineer and architect not selected. Baker Hotel Inc., Dallas, lessee.

Tex., Vernon — BANK — Herring Natl. Bank, c/o L. K. Johnson, vice-pres., plans 5 story and basement, 90 x 100 ft., brick, stone and rein.-con., Pease and Fannin Sts. $175,000. Engineer and architect not selected.

Wash., Seattle—OFFICE and STORE—Y. W. Voorhees, archt., Eitel Bldg., takes bids about May 1, 8 story and basement, 111 x 113 ft., rein.-con., brick and terra cotta, 3rd and Union Sts., for Vance Lumber Co., Stuart Bldg. $950,000.

Calif., Beverly Hills—APARTMENT—W. G. McCarty, 1412 Wilshire Blvd., Los Angeles, had plans prepared by Walker & Eisen, 701 Great Republic Life Bldg., Los Angeles, 8 story and basement, 130 x 158 ft., steel and rein.-con., Wilshire Blvd. $1,500,000. Noted Jan. 14.

Calif., Los Angeles — CLUB HOUSE — California Club, S. M. Haskins, pres., 453 South Hill St., plans 12 story and basement, 180 x 330 ft. club house, Hope St. Engineer and architect not selected.

Calif., Los Angeles—DEPOT and HOTEL —Pickwick Stages, C. F. Wren, mgr., 6th and Los Angeles Sts., plans 8 story and basement, on 80 x 150 ft. site, 6th and Los Angeles Sts.; also 6 story addition to present building. $150,000 or more.

Calif., Los Angeles — GARAGE — Santee Garage, Inc., Santee St., had revised plans prepared by Burnett & Dodge, Lankershim Bldg., 6 story, 100 x 160 ft., rein.-con., Santee St. between 8th and 9th Sts. $310,000.

Calif., Los Angeles—OFFICE—Group of property owners, c/o C. R. Branham, had sketches made by Somervell & Putman, 905 Commercial Exch. Bldg., 2 story, 100 x 540 ft., rein.-con. and stone, Pruess Rd. and Wilshire Blvd. $150,000.

Calif., Los Angeles—SALESROOM and LOFT—M. Jacobowsky, et al, 3756 West 1st St., having preliminary plans prepared by A. B. Rosenthal, Hill-Street Bldg., about 10 story and basement, 135 x 140 ft., rein.-con., Santa Monica Blvd.

Calif., Sacramento—CLUB—Y. W. C. A., N. A. Chappell, general secy., plans fireproof, 17th and L Sts. $150,000 or more. Engineer and architect not selected.

Calif., San Francisco—CLUB—Bohemian Club, J. S. Thompson, pres., Post and Taylor Sts., plans 15 story, fireproof construction. To exceed $500,000.

Calif., San Francisco—OFFICE—Amer. Radiator Co., 2nd and Townsend Sts., plans (1st unit) 2 story, rein.-con., 4th and Townsend Sts. $200,000.

Calif., San Jose—STATION—Southern Pacific R.R. Co., 65 Market St., San Francisco, plans railroad station, here. $500,000 or more. Eng. Dept. of Owners, engrs.

Calif., San Mateo — HOTEL — Syndicate, c/o M. G. McCann, 26 Montgomery St., San Francisco, had plans prepared by C. H. Barrett, c/o owners, Hotel Woodside, 5 story, steel and rein.-con., Alameda Dr. $1,500,000.

Calif., Visalia—HOSPITAL—Tulare Co. having plans prepared by E. J. Kump Co., Rowell Bldg., Fresno, fireproof construction. $180,000.

Ont., Ottawa—COMMERCIAL—Richards & Abra, archts., 126 Sparks St., soon take bids 2 story and basement, 99 x 99 ft., rein.-con., plain foundation, Albert St., for Bryson Estate, Ltd., 142 Sparks St. $150,000.

Ont., Toronto—OFFICE—East York Twp. plans probably 3 story and basement, rein.-con., brick and steel, plain foundation. $150,000. G. R. Jack, 443 Sammon Ave., engr.

Bids Desired

Mass., Allston (Boston P. O.)—APARTMENT—See "Contracts Awarded."

Mass., Dorchester (Boston P. O.) — APARTMENT—See "Contracts Awarded."

Mass., Hyde Park (Ind. br. Boston)—STORE and OFFICE — See "Contracts Awarded."

Mass., Pittsfield — STORE — England Bros., North St., taking bids altering and constructing brick and steel addition. $150,000. G. E. Haynes, 184 North St., archt.

Mass., Roxbury (Boston P. O.)—APARTMENT—See "Contracts Awarded."

W. Va., Morgantown—HOTEL—Mar. 25, by L. Lepera, 5 story and basement, 59 x 74 ft., brick and steel hotel. $150,000. C. Reger, Morgantown, archt. Noted Sept. 3.

N. C., Durham—STORE and OFFICE—Mar. 24, by Milburn, Heister & Co., archts., 710 14th St., Wash., D. C., and Durham, 8 story and basement, 51 x 72 ft., rein.-con., brick and steel, plain foundation, Main and Morris Sts., for R. H. Wright, $350,000.

Pa., Allentown—HOTEL—Mar. 30, by A. Pabruch and A. Pomery, 10 story, mezzanine and basement, 71 x 229 ft., rein.-con., brick and steel, plain foundation, 6th and Hamilton Sts. $1,250,000. Ritter & Shay, Packard Bldg., Phila., archts.

Pa., Charleroi — STORE — Mar. 26, by Berryman Dept. Store and Yoke & Lowstetter, archts., Monongahela City, 2 story, mezzanine and basement, 95 x 100 ft., brick, limestone and steel store. $150,000.

Pa., Pittsburgh — STORE and LOFT — Steinbach & Jubilier, Penn Ave., taking bids 7 story and basement, 45 x 120 ft., brick and hollow tile, Penn Ave. $150,000. Sharose & Friedman, Berger Bldg., archts.

Pa., Tyrone—LODGE—Tyrone Lodge B. P. O. E., 33 West 10th St., taking bids 3 story and basement, 49 x 110 ft., brick, Logan Ave. $200,000. Engineer and architect not selected.

Pa., Williamsport—THEATRE—Mar. 22, by Lycoming Amusement Co. c/o C. A. Reed, pres., 2 story and basement, 48 x 175 ft., brick, concrete and steel, 1,400 seating capacity, Pine St. $180,000. F. A. Rianhard, Masonic Temple, archt. Noted Feb. 4.

Miss., Greenville—HOSPITAL—Apr. 1, by Kings Daughters Circle, F. Schelben, chn. building com., 4 story, rein.-con., hollow tile, stucco and terra cotta hospital. $250,000. W. F. Schultz, 870 Shrine Bldg., Memphis, Tenn., archt. Noted Oct. 1.

O., East Cleveland (br. Cleveland) — COMMERCIAL and APARTMENT — L. Katz, Swetland Bldg., Cleveland, taking bids 3 story and basement, brick and steel, Euclid and Stratmore Aves., here. $225,000. A. F. Janowitz, 811 Prospect Ave., Cleveland, archt.

O., Lakewood (br. Cleveland)—APARTMENT—L. B. Cohn, 2099 Lambertson Rd., Cleveland, taking bids 3 story and basement, 45 x 165 ft., brick and steel, 1416 Waterbury St., here. $150,000. A. F. Janowitz, 811 Prospect Ave., Cleveland, archt.

Mich., Jackson — PRISON — See "Contracts Awarded."

Mich., Marquette—BANK and OFFICE—Mar. 24, by First Natl. Bank & Trust Co. and Mowbray & Uffinger, archts., 221 West 57th St., New York City, 2 story and basement, 65 x 100 ft., rein.-con .and brick, plain foundation. $225,000. Noted Mar. 11.

Ill., Chicago—APARTMENT—Mar. 25, by Clarendon-Leland Building Corp., 160 North La Salle St., 12 story and basement, 80 x 160 ft., rein.-con. and stone, Clarendon and Leland Aves. $1,000,000. A. S. Hecht, 155 North Clark St., archt.

Mo., St. Louis — APARTMENTS — See "Contracts Awarded."

Tex., Edinburg—HOTEL—Edinburg Hotel Co. taking bids 4 story and basement, rein.-con. and brick, plain foundation. $200,000. Private plans.

Calif., Berkeley — THEATRE — J. A. Marshall, archt., 5658 College Ave., associated with M. I. Diggs, 244 Lake Drive Blvd., Oakland, taking bids theatre, 1,800 seating capacity, College and Claremont Aves., here, for Beach Krahn Theatres, Inc. $250,000. Noted Jan. 21.

Calif., Fresno—GARAGE—Apr. 6, by D. M. Barnwell, clk. Fresno Co., 1 story, 100 x 100 ft. garage and equipment maintenance shops, Chance and Butler Aves.

Calif., Tulare—THEATRE, STORE and OFFICE—Miller & Pflueger, archts., 580 Market St., San Francisco, taking bids Class "A," 1,400 to 1,500 seating capacity, L and Tulare Sts., for R. A. Hazel, Tulare. $150,000.

Bids Received

N. Y., West Haverstraw—HOSPITAL—State Hospital Comn., Albany, Mar. 4, isolation building, nurses home, etc., at State Orthopedic Hospital, here, from G. Colon & Co., 1 East 125th St., New York City, $447,000. Noted Jan. 21.

N. J., Trenton—HOSPITAL—Bd. Institutions & Agencies, W. J. Ellis, acting comr., State Office Bldg., Mar. 12, general contract 6 hospital buildings, from C. J. Smith Co., 202 Academy St., $732,400; plumbing, from J. T. Evans, Wilkes-Barre, Pa., $646,869; heating from Piper Bros., 340 North Broad St., $42,780, and sewer and water system, from A. N. Bugbee, 586 Bellevue Ave., $26,200. Noted Mar. 11.

Pa., Phila. — EXPOSITION — Sesquicentenial Exposition, c/o W. F. Kendrick, pres., 5th and Chestnut Sts., Exposition Building 5, 1 story, 170 x 925 ft., and 411 x 880 ft., rein.-con., stucco and steel, wood pile foundation, Broad and Government Sts., from Turner Constr. Co., 1713 Sansom St., $712,500.

Mich., Royal Oak (br. Detroit) — BIRD HOUSE—Zoological Park Comn., R. F. Follett, dir., Detroit, 2 story and basement, 95 x 137 ft., rein.-con., brick and steel bird house, plain foundation, here, from Tallec & Meier, 250 West Lafayette St., Detroit, $171,900. Noted Feb. 18.

Calif., San Luis Obispo—HOSPITAL—San Luis Obispo Co., general contract for hospital, from A. Johnson, 74 Montgomery St., San Francisco, $139,9[illegible]. Noted June 11.

Contracts Awarded

Mass., Allston (Boston P. O.)—APARTMENT — B. Grossman, 6 Greenough Rd. Mattapan, will build 3 story and basement brick and stone, 35 Orkney St., here. $150,000. Work will be done by separate contracts. Winebaum & Wexler, 73 Cornhill St., Boston, archts.

Mass., Boston — APARTMENT and STORE—E. Stevens, c/o H. F. Kellogg, archt., 110 Summer St., 4 story and basement, brick, to J. Greenwood, 101 Tremont St. Archts. est. $150,000.

Mass., Boston—HOTEL—Hotel Bellevue, altering and constructing 7 story and basement brick addition, Beacon St., to Whidden, Beckman Co., 100 Boylston St. Archts. est. $150,000 or more.

Mass., Boston—OFFICE—Niles Building Trust Co., 27 School St., altering and constructing 5 story and basement, brick addition, to Mitchell & Sutherland, Inc., 18 Tremont St. Archts. est. $150,000.

Mass., Boston — STORE and OFFICE — Tingus Bros. & Cakridas, c/o Gay & Proctor, archts., 248 Boylston St., 5 story and basement, 35 x 65 ft., brick and stone, Tremont St. and Bway., to D. R. McKellogg & Co., Inc., 111 West Brookline St. Archts. est. $150,000.

Mass., Dorchester (Boston P. O.) — APARTMENT — Carson & Shennan, 605 Morton St., will build 3 story and basement, brick, plain foundation, Walnut St. $160,000. Work will be done by separate contracts. S. Moffie, 51 Cornhill St., Boston, archt.

Mass., Hyde Park (Ind. br. Boston)—STORE and OFFICE—A. Waterman, 1626 Hyde Park Ave., will build 2 story and basement, brick, River St., by day labor. $150,000. G. L. Milton, 80 Boylston St., Boston, engr.

Mass., Lowell — DANCE HALL, etc. — Owner, 3 story and basement, brick and stone dance hall, bowling alley and stores, to White Constr. Co., 11 Beacon St., Boston. Archts. est. $200,000.

Mass., Roxbury (Boston P. O.)—APARTMENT — B. Swartz, 77 Greenwood St., Dorchester, will build 2 story and basement, brick and stone, plain foundation, Walnut Park, here. $150,000. Work will be done by separate contracts. S. E. Moffie, 51 Cornhill St., Boston, archt.

Conn., Hartford—BUSINESS—A. Steiger, Inc., 885 Main St., 5 story and basement, 100 x 165 x 550 ft., brick, steel and stone, Pratt and Trumbull Sts., to E. J. Pinney, Inc., 374 Main St., Springfield, Mass. Archts. est. $750,000. Noted Nov. 19.

Conn., Norwich—SANATORIUM—State Hospital Comn., Hartford, F. M. Salmon, comptroller, 2 story and basement, 40 x 190 ft., brick and steel employees' building, 2 story, 60 x 80 ft. stone and timber addition, and 1 story infirmary, here, to A. Torrance, Prospect St., $98,842. Noted Mar. 4.

N. Y., Nyack—EXCHANGE—New York Telephone Co., 15 Dey St., New York City, 3 story, rein.-con., brick and steel, plain foundation, here, to D. C. Weeks & Sons, 347 Madison Ave., New York City. Archts. est. $150,000.

N. Y., Peekskill — EXCHANGE — New York Telephone Co., 15 Dey St., New York City, telephone exchange, here, to W. A. L'Hommedieu, & Co., Madison Ave., New York City. Archts. est. $150,000.

N. J., Newark—HALL of RECORDS, etc. —Bd. Freeholders, Essex Co., E. C. Ball, chn. building Com., Courthouse, brick, steel and stone plain foundation, High St., to Niewenhouse Co., 16 East 43rd St., New York City, $2,158,925. Soon takes bids heating and ventilating for same, former bids rejected. Noted Feb. 11.

Pa., Butler—AUDITORIUM—Butler Fair Grounds Assn., E. A. Gibson, Jenkins Bldg., general contract 1 story, 48 x 320 ft. auditorium, to G. A. Schenc & Sons, Butler. Archts. est. $150,000. Noted Jan. 21.

Pa., Pittsburgh—BANK—Bank of Pittsburgh—Natl. Assn., 266 4th Ave., 2 story and basement, 30 x 92 ft., stone and steel, 4th Ave., to W. T. Grange Constr. Co., Keenan Bldg. Archts. est. $200,000.

Pa., Phila.—EXHIBITION—Sesquicentennial Comn. at office H. T. Baxter, executive secy., 926 Widener Bldg., for Pennsylvania State Building, 1 story, 226 x 332 ft. building, general contract, to F. W. Mark Co., Commercial Trust Bldg., $395,000. Noted Feb. 25.

Buildings—Commercial (Continued)

Pa., Pittsburgh—APARTMENT—Fifth Ave. Apartment Corp., c/o P. Julian, archt., 823 15th St. N. W., Wash., D. C., general contract 9 story and basement, 160 x 200 ft. 5th Ave., to Boyle Robertson Constr. Co., Inc., 16th St. and Harvard Ave., Wash., D. C. Archts. est. $1,500,000.

Ga., Atlanta — GARAGE and SALES — C. A. Sisson, general contract 3 story, 50 x 132 ft. distributing plant, Peachtree St., to C. D. Crockett & Co., 316 Bona-Allen Bldg., $200,000. Willys Overland Co., 469 Peachtree St., lessee.

Fla., Ft. Lauderdale—HOTEL—Florida Hotel Assn., I. C. Overdorff, pres., for Mandalay Arms Hotel, 3 story, 185 room, Mandalay Blvd., to Lake Mabel Development Corp., G. Whyel, pres., Ft. Lauderdale, $500,000.

Fla., Frostproof—HOTEL—W. A. Hoefgen, Lakeland, for Frostproof Hotel Corp., Babson Park and Sebring, 5 story hotel, here, to Dame Eng. Co., St. Petersburg, $250,000.

Fla., Miami — CLUB — Miami Athletic Club, 184 Southeast 14th St., brick, steel and stone, plain foundation, Bayshore Dr., to G. A. Fuller Co., Daily News Bldg. Archts. est. $1,000,000.

Ala., Birmingham—PRODUCE MART—Exchange Distributing Co., 417 South 21st St., 2 story, 190 x 300 ft. produce mart, 1st Ave., to A. C. Samford, 24 Gelena Ave., Montgomery, $250,000.

Miss., Laurel—HOTEL—L. W. Duffy, archt., Laurel, 4 story, 50 x 192 ft., incl. 2 stores and lobby, rein.-con., brick and stone addition, to C. S. Norman, Laurel, for Pinehurst Hotel Co. Noted Jan. 28.

O., Cleveland — COMMERCIAL — One Hundred and Seven Fairmount Co., c/o D. E. Wilcox, 322 Euclid Ave., 2 story and basement, 48 x 84 x 94 x 97 ft., brick and steel, to W. Dunbar Co., 8201 Cedar Ave. Archts. est. $150,000. Noted Dec. 10.

O., Columbus — HORTICULTURAL and AGRICULTURAL — Dept. Agriculture, State House, A. V. Truay, dir., part 1 and part 2 story, 98 x 300 ft., brick and concrete, State Fair Grounds, to B. F. Smith Co., 344 South Front St., $131,671. Noted Feb. 11.

O., Toledo—APARTMENT—L. S. Ottenheimer & S. Sanger, 1007 Nicholas Bldg., general contract 6 story and basement, 62 x 100 ft., brick, stone and steel, known as Kenmore, Fulton St., & Ashland Ave., to Watts & Suhrbier Co., 1235 Miami St.; steel and iron, to Building Products Co., Summit and Sandusky Sts. Archts. est. $200,000. M. Swaab, owner Hamlin Hotel, 412-14 Erie St., lessee.

Ind., Indianapolis — APARTMENT — Owner, c/o E. D. Logsdon, pres., 817 Traction Bldg., general contract 3 story and basement, 40 x 270 ft., brick and rein.-con., Virginia Ave. and McCarthy St., to E. C. Strathmann, 4220 Central Ave., $145,000. Noted Feb. 11.

Ind., Portland—STORE—Weiler Bros., general contract 2 story and basement, 132 x 132 ft., brick, steel and rein.-con. store and office building, to C. L. Sandero & Son, Portland, $160,000.

Ind., Vincennes — COURTHOUSE — A. Hess, pres. Bd. Comrs. Knox Co., at office County Auditor, Courthouse, general contract remodeling brick, steel and rein.-con. courthouse, to J. A. Keller, Vincennes. Archts. est. $175,000. Noted Feb. 18.

Mich., Detroit—OFFICE and GARAGE—Cadillac Motor Car Co., Clark Ave., general contract 4 story, 56 x 321 ft., rein.-con. office and 60 x 275 ft., steel and brick garage, plain foundations, Clark Ave., to A. A. Albrecht Co., Penobscot Bldg., Detroit. Noted Feb. 18.

Mich., Detroit — STORE — G. Simonds Agency, c/o Gottlesleben & Bernardi, archts., 2224 Dime Bank Bldg., 4 story and basement, 30 x 100 ft., rein.-con., brick and steel, plain foundation, Woodward Ave., to W. E. Wood Co., 1805 Ford Bldg. Archts. est. $150,000.

Mich., Jackson — PRISON — Michigan State Prison, H. N. Hulburt, dir. constr., will build rein.-con. and brick addition, plain foundation, by convict labor. $500,000. Private plans.

Ill., Chicago—CLUB—Lindblad & Carlson, archts., 155 North Clark St., masonry and carpentry contract 3 story and basement, 100 x 150 ft., plain foundation, West 79th St. and Emerald Ave., to R. A. Lundgren, 80 West Washington St., for Independent Order of Vikings, O. G. Nelson, pres., 727 Maple Ave., Blue Island. Archts. est. $350,000. Noted Oct. 8.

Ill., Chicago—ELECTRIC TERMINAL—Illinois Central R.R. Co., 135 East 11th Pl., A. F. Blaess, ch. engr., 1 story, 76 x 480 ft. with 20½ x 206 ft. extension, 29 ft. high, concrete, steel and corrugated iron, 16th St. and railroad tracks, to W. J. Zitterell Co., Webster City, Ia. Engrs. est. $183,000.

BULKHEAD—NEW YORK, N. Y.

Bids were opened by Department of Parks (lowest four and highest) for concrete bulkhead along easterly boundary of Public Driveway between 193rd and 198th Sts., (A) Ascher Engineering & Construction Co., 1457 Broadway, (awarded contract); (B) Fleming & Sheppard Co., Inc., 116 Broad St.; (C) Fox-Reynolds Co., 81 East 125th St.; (D) Thomas A. Reilly Co., Inc., 25 West 43rd St.; (E) George B. Spearin, Inc., 90 West St. The unit bids are as follows:

	A	B	C	D	E
10,200 yd. crib excavation	$3 00	$1 50	$2 00	$2 75	$3 00
2,960 cu.yd. earth excavation	2 00	1 50	2 00	2 75	3 00
1,310 cu.yd. Class "A" concrete	12 00	12 00	16 00	15 00	18 00
2,330 cu.yd. Class "B" concrete	13 00	19 00	16 00	16 00	25 00
350 cu.yd. Class "C" concrete	15 00	17 00	16 00	17 00	26 00
1,300 cu.yd. dry rubble wall backfill	45	2 75	3 00	1 00	4 00
1,450 cu.yd. earth and stone backfill	45	1 00	50	50	2 00
18,500 sq.ft. asphalt walk pavement	14	17	20	17	30
2 manholes	100 00	175 00	50 00	42 00	112 00
Extended totals	$91,808	$94,200	$98,585	$104,324	$144,284

Ill., Chicago—THEATRE, STORE and APARTMENT—R. Levine, 822 West 70th St., 3 story, rein.-con., brick and terra cotta, North Chicago Ave. near 50th St., to R. Levine & Co., 822 West 70th St. Archts. est. $1,500,000.

Ill., Chicago—THEATRE and STORE—Marks Bros., 1641 West Roosevelt Rd., general, masonry and carpentry contract 3 story and basement, 163 x 200 ft., 4104-4122 West Madison St., to Longacre Eng. & Constr. Co., 127 North Dearborn St. Archts. est. $1,500,000.

Wis., Kenosha — CLUBHOUSE and MERCANTILE—Lindl & Schutte, archts., 82 Wisconsin St., Milwaukee, 3 story and basement, 84 x 132 ft., brick and concrete, Congress St., to Immel Constr. Co., Dana Bldg., Fond du Lac, $163,800. Noted Mar. 11.

Wis., Kenosha — STORE and APARTMENT — L. Plous, 152 Market St., 3 story and basement, 62 x 125 ft., brick, concrete and terra cotta, plain foundation, Prairie St., to D. Camosy, 252 North Newell St. Archts. est. $150,000. Noted Feb. 4.

Ia., Mason City—Y. M. C. A., C. H. MacNider, chn. Building Comn., 4 story, 128 x 160 ft., rein.-con., brick and limestone, to Madsen Constr. Co., 618 Natl. Bldg., Minneapolis, Minn., $162,637. heating and plumbing, to P. J. Gallagher, Faribault, Minn., $37,291. This corrects report in Mar. 4th issue.

Mo., St. Louis — APARTMENTS — Missouri Realty & Constr. Co., 6117 Osage Blvd., will build group 2 story and basement, brick and concrete, North Market St. and Burd Ave., by day labor. $330,000.

Mo., St. Louis — CLUBHOUSE, etc. — Osage Country Club, c/o N. Cunliff, pres., 110 North 7th St., brick and concrete clubhouse, incl. 18 hole golf course, tennis court, swimming pool, etc., on 120 acre tract at Big Bend Rd., St. Louis Co., to W. H. Smith N. Cunliff Co., 110 North 7th St.

Mo., St. Louis—HOTEL—L. C. Penningroth, c/o Forest Park Hotel, West Pine Blvd. and Euclid Ave., 7 story and basement, rein.-con., brick, and stone addition, Buckingham Court, to W. H. Smith-N. Cunliff Co., 110 North 7th St. Archts. est. $400,000.

Ark., Hot Springs — HOTEL — J. W. Howe, et al, c/o Rockafellow Hotel, general contract 6 story and basement, 60 x 110 ft., rein.-con., brick, steel and terra cotta, Central and Canyon Sts., to J. H. Leveck & Son, St. Marys St., Little Rock, $125,900; heating and plumbing, to Shaws Gas & Plumbing Shop, 608 La St., Little Rock, $31,835. Noted Feb. 18.

Tex., San Antonio—JAIL—Bexar Co., c/o A. McCloskey, judge, 2 story, 120 x 160 ft., rein.-con. and brick addition, Cameron St. between Houston and Commerce Sts., to C. Brient, 312 Builders Exch. Bldg., $195,972. Noted Feb. 4.

Wash., Seattle — APARTMENT — H. Smith, c/o E. A. Roberts, archt., Burke Bldg., 4 story and basement, 100 x 103 ft., 4006 Brooklyn Ave., to Walter & Brady, Hodge Bldg., $165,000.

Calif., Los Angeles — APARTMENT — W. K. Newbow, 5 story and basement, 65 x 120 ft., brick, West 1st St., to Cooper & Farber, Chapman Bldg., $155,000.

Calif., Los Angeles—HOTEL—Callahan & Sons (designers and contractors), Edwards-Wildey Bldg., will build 5 story and basement, 100 x 150 ft., brick and steel, 8th St. and Normandie Ave. Owner's name withheld.

Calif., Los Angeles—SALESROOM and LOFT—M. Jacobowsky, 3756 West 1st St., 10 story and basement, steel and rein.-con., Vermont Ave. and Santa Monica Blvd., to Fidelity Constr. Co., Hill-Street Bldg., approximately $750,000.

Calif., San Francisco—HOTEL—A. Tilden, c/o C. J. Hladik, archt., Monadnock Bldg., 8 story and basement, steel and concrete, Taylor St. near O'Farrell St., to Lacey & Vukicevich, 708 Hearst Bldg., $250,500. Noted Dec. 17.

Ont., Toronto—APARTMENT—Bloor St. George Realty Co., 357 Bay St., general contract 4 story and basement, 300 room, rein.-con., brick and steel, plain foundation, Bloor and St. George Sts., to Carswell Constr. Co., 58 Wellington St. E. Archts. est. $750,000. Noted Mar. 11.

B. C., Vancouver—STORE—Hudson Bay Co. Ltd., Granville and Georgia Sts., 6 story and basement, 120 x 142 ft., rein.-con., tile and terra cotta, plain foundation, Granville and Georgia Sts., to Carter-Halls-Aldinger Co. Ltd., Bekin Bldg. $1,000,000.

Buildings—Industrial

Proposed Work

Mass., Charlestown (sta. Boston)—FACTORY—A. D. Donald, 100 Arlington Ave., plans reconstructing factory, destroyed by fire. $50,000. Engineer and architect not selected.

R. I., West Warwick (Mail Warwick)—DYEHOUSE—Crompton Co., having plans prepared by K. C. Richmond, engrs. and archts., 526 Grosvenor Bldg., Providence, brick dyehouse. $45,000.

N. Y., Cuba—REPAIR SHOP and SERVICE STATION—C. B. Hedges plans service station. $45,000.

Pa., Nazareth—FACTORY—Bates Valve Bag Co. plans 1 story, 100 x 160 ft., steel and concrete factory. $40,000. Engineer and architect not selected.

N. C., Dallas — BROOM FACTORY — Joseph Lay Co. R. E. Leslie, vice-pres. and genl. mgr., Portland, Ind., plans broom factory, here. $50,000-$75,000.

Fla., Fort Myers—GAS PLANT—Election Mar. 23, $140,000 bonds, gas plant.

O., Cleveland — FACORY — Rickersberg Brass Co., D. L. Rickersberg, secy.-treas., East 37th St. and Perkins Ave., having plans prepared by Christian, Schwarzenberg & Gaeda, 1900 Euclid Bldg., brick, steel and concrete factory. $150,000.

Ind., Muncie — FACTORIES — Warner Gear Co., Clerk and Penn Sts., plans 2 factories, West Muncie. $500,000.

Mich., Dearborn — FACTORY — Stout Metal Airplace Div. Ford Motor Co., having plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 1 story, rein.-con., brick and steel factory with hangar, plain foundation, at Ford Airport, here.

Mich., Detroit—PAPER PLANT—Consolidated Paper Co., 1338 Clay Ave., plans rein.-con., brick and steel, plain foundation, Telegraph Rd. $400,000. Private plans.

Mich., Detroit—STOVE WORKS—Detroit Stove Works, East Jefferson Ave., plans addition 2 story and part basement, 82 x 174 ft., rein.-con., brick and steel, plain foundation, East Jefferson Ave. $50,000.

Mich., Ypsilanti—CLOTH PLANT—Ford Motor Co., Highland Park, having plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 1 story, 350x1,000 ft., rein.-con., brick and steel, plain foundation, here.

Ill., Chicago—PLANT—Niermann Table Co., 72nd St. and Maryland Ave., plans 1 story, 125 x 575 ft., rein.-con. and brick, 95th St. and Cottage Grove Ave. Sessions Eng. Co., 208 South La Salle St., engrs. Architect not selected. Noted Jan. 7.

Wis., Knowlton — PLANT, etc. — Consolidated Water Power & Paper Co., G. W. Mead, pres., Wisconsin Rapids, plans rein.-

Buildings—Industrial (Continued)

con., brick and steel, hydro-electric plant and dam on Wisconsin River, near here. Engineer not selected.

Wis., Madison — PLANT and WAREHOUSE — Madison Fruit & Produce Co., 927 East Washington Ave., plans 2 story and basement, rein.-con., brick and steel, plain foundation, Atwood St. $40,000. Engineer and architect not selected.

Wis., Port Washington—STEAM HEATING PLANT — Central Steam Heat & Power Co., c/o E. E. Dillon, engr., Central Bldg., Madison having plans prepared rein.-con., brick and steel heating plant, here. $60,000.

Wis., Racine—GAS PLANT—Wisconsin Gas & Electric Co., 305 6th St., (affiliated with Milwaukee Electric Ry. & Light Co., Pub. Serv. Bldg., Milwaukee), making plans enlarging gas plant, incl. brick and steel carbonizing plant, new building housing meter repair department, garage, storage plant, shops, and 5,000,000 to 10,000,000 cu. ft. gas holder. $500,000.

Minn., Rochester—POWER PLANT—Bd. Educ., S. L. Seamon, clk., rejected bids Feb. 2, power plant with three 204 hp. boilers, softeners, etc. $75,000. J. H. Crawford, Rochester, archt. Noted Feb. 18, under "Buildings—Educational, Religious."

Arkansas—OIL REFINERY—Simms Oil Co., Magnolia Bldg., Dallas, Tex., making preliminary plans 2,500 bbl. capacity oil refinery at Smackover, Camden or Eldorado, Ark. F. Gardner, c/o owner, ch. engr.

Tex., Amarillo — CREAMERY — Metzger Bros., c/o C. Metzger Holmes St. Rd., Dallas, having plans prepared 1 story, brick and rein.-con., Ft. Worth and Denver R. R. tracks, here. $50,000. Engineer's and architect's names withheld.

Tex., Cuero — COTTON MILL — P. M. Keller & associates plan brick, stone, steel and rein.-con. cotton mill. $250,000. Chamber of Commerce furnishes site and appropriates $20,000 towards cost. Engineer and architect not selected.

Tex., Denison—PAPER PLANT—J. Tulloch, archt., 213 M. & P. Bank Bldg., Sherman, soon takes bids 2 story, 50 x 110 ft. paper plant, brick and stone, for Denison Herald Publishing Co. $45,000.

Tex., Sipe Springs — CARBON BLACK PLANT—Diamond Black Carbon Co., having preliminary plans prepared (1st unit) carbon black plant. $100,000. Private plans.

Okla., Quinlan—POWER PLANT, etc.—City Council granted franchise to Hobson et al, Quinlan, to install and operate an electric power plant and construct power line. $75,000. Private plans.

Calif., Los Angeles—FACTORY—Castle Cottage Cheese Co., 1406 East 6th St., having plans prepared by W. D. Lee, Textile Center Bldg., 2 story, 40 x 100 ft., brick, Kohler St.

Calif., Pomona—PLANT—Interests, c/o F. O. Fernstrom, 159 Lake St., Oakland, plans (fruit wrapper) paper plant, here. To exceed $40,000.

Calif., Richmond — PLANT — Standard Sanitary Mfg. Co., 1000 Brannan St., San Francisco, plans plant additions, incl. new tunnel kilns, etc. $500,000 or more.

Calif., Salinas — PLANT — Salinas Daily Index, purchased site and plans brick or concrete publishing plant, Salinas and Alisal Sts. To exceed $75,000.

Ont., Port Colborne—NICKEL PLANT—International Nickel Co., having plans prepared plant addition. $750,000. Private plans.

Ont., Port Colborne—COKING PLANT—Canada Furnace Co. plans by-product coking plant. $500,000.

Ont., Port Colborne—FLOUR MILL—Washburn Crosby Co., Michigan and Ganson Sts., Buffalo, N. Y., plans flour mill, here. $500,000.

Bids Desired

N. Y., Rome — POWER HOUSE, etc. — Apr. 8, by Superintendent Purchase, Capitol, Albany, addition to power house, heating work, etc., sanitary work and additions to water supply, also automatic sprinklers, etc. for Rome State School, here; adv. E. N.-R. Mar. 18.

O., Cleveland — LAUNDRY — Best Laundry Serv. Co., H. Brooks, vice-pres., 7914 Platt Ave., taking bids 1 and 2 story, 60 x 140 ft., brick and steel laundry. $60,000. W. J. Wefel, 5716 Euclid Ave., archt.

Mich., Highland Park (br. Detroit) — FACTORY—R. A. Bailey, archt., 92 Peterboro St., Detroit, taking bids 1 story and part basement, 110 x 120 ft., rein.-con., stone, brick and steel, plain foundation, here, for Huggins Tool Co., 248 West Congress St., Detroit. $50,000.

Wis., Oshkosh — FOUNDRY — Wilkin-Challoner Co., Mt. Vernon and Nevada Sts., taking bids 1 story, 80 x 112 ft., brick and steel, plain foundation. $40,000.

Wis., Port Edwards — HYDRO-ELECTRIC POWER PLANT—See "Contracts Awarded."

Tex., Dallas — POTTERY — Love Field Pottery Co., c/o L. S. McKamey, pres., taking bids steel for 1 story, 66 x 220 ft., rein.-con., brick and steel, Love Field St. $75,000. Private plans.

Tex., Port Arthur—PACKING PLANT—See "Contracts Awarded."

Calif., Watsonville—CREAMERY—W. H. Weeks, archt., 369 Pine St., San Francisco, taking bids 2 story, rein.-con. and terra cotta, here, for Watsonville Creamery Co. $40,000. Noted July 16.

Bids Received

Mich., Detroit — HEATING PLANT — Dept. Pub. Wks., City Hall, general contract 2 story and basement, 50 x 99 ft., rein.-con., brick and steel, plain foundation, Mullet and St. Antoine Sts., from Martin-Krausman Co., 955 East Jefferson Ave., $81,000; mechanical work, from Drake-Avery Co., 210 State St., using Union boilers $210,152, Heinie boilers $217,152. Noted Feb. 25.

Contracts Awarded

Mass., Boston — FACTORY — L. Jolles, 174 Lincoln St., 5 story, brick addition, Lincoln St., to N. Horwitz, 294 Washington St. Archts. est. $50,000.

Mass., Chelsea (br. Boston) — REPAIR and SERVICE STATION — J. Seeley, 115 Park St., 1 story, rein.-con., to M. Slotnick, 333 Washington St., Boston. Archts. est. $50,000. Noted Dec. 10.

Mass., Gardner — FACTORY — Amer. Fibre Co., Coleman St., 2 story, brick addition, to J. Bosvert, Connors St. Archts. est. $45,000. Noted Mar. 11.

Mass., Somerville (Boston P. O.) — BAKERY PLANT—New England Bakery Co., 86 Joy St., 2 story, 75 x 100 ft., rein.-con. and brick addition, to W. Coulson Co., 1 Hayward St., Cambridge. Archts. est. $50,000.

R. I., Providence—FACTORY—Liberty Tool & Gauge Wks., 338 Bernon St., Woonsocket, 1 story, 80 x 120 ft., brick and steel, Toronto Ave., to C. I. Bigney Constr. Co., 184 Washington St. Archts. est. $40,000.

Pa., Chester — MILL — Heckman & Lemaestre, archts., Bellevue Court Bldg., lace mill, rein.-con. and brick, Clayton and 2nd Sts., to W. R. Provost, Jr., Crozer Bldg., for Chester Lace Mills. Noted Jan. 21.

Pa., Nazareth — FACTORY — Kraemer Hosiery Co., 1 story, 100 x 220 ft., concrete, brick and steel, to H. K. Ferguson Co., 2820 West Park Blk., Cleveland, O., approximately $40,000.

Pa., Phila.—MANUFACTURING—Ballinger Co., archts., 12th and Chestnut Sts., 1 story and basement, 124 x 783 ft., rein.-con., brick and steel, plain foundation, Aramingo Ave., Tulip and Sanger Sts., to Wark Co., 1600 Walnut St., for J. W. Watson Co., 24th and Locust Sts. Est. cost $300,000. Noted Jan. 14.

Pa., Phila.—MILL—Helling Silk Dyeing Co., 9th and Buttonwood Sts., 3 story and basement, 33 x 139 ft., rein.-con., brick and steel addition, plain foundation, Delaware and Howell Sts., to J. L. Lawley, 1615 Spruce St. Archts. est. $40,000.

Pa., Phila. — FACTORY — R. McNeill, 2347 North Reese St., 4 story and basement, 60 x 100 ft., rein.-con. and brick, plain foundation, 17th and Cambria Sts., to Murphy Quigley Co., 1524 Sansom St. Archts. est. $150,000.

Pa., Phila. — BOTTLING PLANT — G. Schmidt & Sons, Inc., 2nd and Edwards Sts., 2 story, basement and mezzanine, irregular shaped, rein.-con. and brick, 2nd and Edwards Sts., to White Constr. Co., Jefferson Bldg.

Pa., Pittsburgh—STEEL PLANT—McKee Oliver, Inc., Oliver Bldg., general contract 1 story, 100 x 200 ft., brick and steel, West Carson St., to Austin Co., Union Trust Bldg. Archts. est. $40,000.

Pa., Spring City—MILL—F. Muhlenberg, archt., Ganster Bldg., Reading, 3 story and basement, 83 x 90 ft., rein.-con. and brick, concrete foundation, here, to White Constr. Co., Jefferson Bldg., Phila. Archts. est. $60,000.

Pa., Wilsonboro—PRINTING PLANT—Mack Printing Co., Easton, 1 story and basement, 128 x 302 ft., rein.-con. and brick, plain foundation, Northampton St. between 19th and 20th Sts., to Central Constr. Co., 17th and Chestnut Sts., Harrisburg.

Ind., Bedford—FACTORY—Model Baking Co., 1 story, 85 x 120 ft., brick and steel factory, to Bedford Steel & Constr. Co., Bedford. Archts. est. $40,000.

Wis., Milwaukee — FACTORY — Cozy Comfort Shoe Co., 1701 Richards St., 1 story, 57 x 120 ft., brick and timber top addition, to Bentley Bros., 808 South Pierce St. Archts. est. $40,000.

Wis., Port Edwards — HYDRO-ELECTRIC PLANT — Nekoosa-Edwards Paper Co. will build 30 x 50 ft., brick and steel power plant, by day labor. E. P. Gleason, c/o owner, engr.

Ia., Marshalltown — FACTORY — Fleming Governor Co., 1 story, 60 x 60 ft., concrete and brick factory, to C. F. Reimer of Marshalltown. Archts. est. $40,000. Noted Mar. 11.

Mo., St. Joseph—BAKERY—A. J. Crane, Alexander Apartments, 2 story, 120 x [illegible] ft., rein.-con. and brick, 23rd and Frederick Sts., to P. L. Buddy, 501 Main St. Archts. est. $125,000. Noted Dec. 17.

Mo., St. Louis—REPAIR and SERVICE SHOP—Hudson-Frampton Motor Car Co., 4517 Delmar Blvd., 1 story and basement, 70 x 242 ft., rein.-con., brick and steel, Enright St., to B. J. Charlesville Building & Investment Co., 114 North 7th St. Archts. est. $100,000.

Mo., St. Louis — QUARTZ PLANT — Phila. Quartz Co., 121 South 3rd St., Philadelphia, Pa., 1 story, 51 x 201 ft., concrete, Geraldine St., here, to Fruin Conlon Constr. Co., Merchants Laclede Bldg., St. Louis. Archts. est. $40,000.

Mo., Springfield — CREAMERY — Merchants Creamery Co., 536 Livingston St., Cincinnati, O., 1 story, 100 x 150 ft., rein.-con. and brick, 525 West Commercial St., to S. E. Dolls, 530 North Lynn St. Archts. est. $100,000.

Tex., Port Arthur—PACKING PLANT—Zummo Packing Co., c/o F. Z. Zummo, pres., will build new packing plant, by day labor. $60,000. Private plans.

Ariz., Douglas — PLANT, etc. — Phelps-Dodge Corp., copprell and roaster buildings, and reconstructing 3 furnace boiler plant, etc., to Dwight P. Robinson & Co., Inc., 125 East 46th St., New York City, N. Y. Engrs. est. to exceed $1,000,000.

Que., Chelsea—POWER PLANT—International Paper Co., 100 East 42nd St., New York City, 3 generators, transformers, etc. to Westinghouse Electric Co., Hamilton, $1,250,000.

Buildings—Educational, Religious

Proposed Work

Mass., Arlington (br. Boston)—SCHOOL—Town, School Com., plans 2 story and basement, brick, Foster Lot. $150,000. Engineer and architect not selected.

Mass., Greenfield — SCHOOL — Town, School Bd., Town Hall, plans school Petty's Plain. $150,000. Engineer and architect not selected.

R. I., Central Falls — CHURCH and RECTORY—St. Mathews Roman Catholic Parish, W. A. Hickey, bishop, plans 1 and 2 story church and rectory, Dexter St. To exceed $150,000. Engineer and architect not selected.

Conn., New Britain—SCHOOL—St. Andrews Lithuanian Church, E. V. Grikis, pastor, 396 Church St., plans school, Church St. $150,000. Engineer and architect not selected.

Conn., New Canaan—HIGH SCHOOL—Town, W. B. Simon, chn., having plans prepared by J. N. Pierson & Sons, 200 Jefferson St., Perth Amboy, N. J., 2 story and basement, brick and steel high school. $150,000.

N. Y., Douglaston (Ind. sta. Flushing)—SCHOOL—Bd. Educ., 500 Park Ave., New York City, having plans prepared by W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn. addition to P. S. 94, brick, steel and stone, plain foundation, Lafayette Pl. $150,000.

N. Y., Ebenezer—SCHOOL—Town plans to raise $150,000, addition to school.

N. Y., Elmhurst (Ind. sta. Flushing)—SCHOOL—Bd. Educ., 500 Park Ave., New York City, having plans prepared by W. H. Gompert, engr. and archt., Flatbush Avenue extension and Concord St., Brooklyn, P. S. 127, brick, steel and stone, plain foundation, 25th St., here. $725,000.

N. Y., Greenwich — SCHOOL — Voted $195,000 bonds, rein.-con. and brick, plain foundation, Main St., for Bd. Educ. Total $225,000. Tooker & Marsh, 101 Park Ave., New York City, engrs. and archts. Noted Feb. 11.

N. Y., Hamburg—CHURCH—Methodist Episcopal Church plans church. $150,000.

N. Y., Jamaica—SCHOOL—Bd. Educ., 500 Park Ave., New York City, having plans prepared by W. H. Gompert, engr. and archt., Flatbush Ave. extension and Concord St., Brooklyn, addition to P. S. 45, brick, steel and stone, plain foundation, 150th St. and Sutter Ave. $450,000.

N. Y., New York — GYMNASIUM and STADIUM — Bd. Educ., 500 Park Ave.,

DAM—SEDALIA, MO.

Bids were opened by city for Spring Fork Dam (A) Cook-O'Brien Co., Railway Exchange Bldg., Kansas City, (awarded contract); (B) C. L. Johnson, Warrensburg; (C) A. A. Davis & Co., Commerce Trust Bldg., Kansas City; (D) Pioneer Construction Co., Kansas City; (E) A. Phelps & Sons, Knoxville, Ia.; T. H. Johnson Construction Co., $153,195, Sedalia; H. H. Carrothers, Kansas City. $159,600 The unit bids of the lowest four and highest bidders are as follows:

	A	B	C	D	E
128,000 cu.yd. earth excavation	$0 36	$0 50	$0 46	$0 54	$0 70
Overhaul	05	05	05	06	03
14,000 cu.yd. rock excavation	1 50	2 00	2 20	1 70	3 25
120 cu.yd. rock excavation in trenches	3 00	3 00	10 00	5 00	10 00
1,210 cu.yd. class "A" concrete	15 00	18 00	24 00	17 00	22 00
190 cu.yd. class "B" concrete	14 50	17 00	24 00	17 00	18 00
52,000 lb. reinforcing steel	045	05	06	05	055
13,000 sq.yd. rip-rap	50	1 50	80	1 50	1 50
Extended totals	$107,500	$144,550	$148,400	$151,800	$197,500

Buildings—Educational, Religious (Cont.)

having plans prepared by W. H. Gompert, engr. and archt., Flatbush Ave. extension and Concord St., Brooklyn, brick, steel and stone plain foundation, at George Washington High School, Audubon Ave. $550,000.

N. Y., North Tonawanda—CHURCH—Polish Catholic Church, Oliver St., plans church, Oliver St. $160,000.

N. Y., Olean—DORMITORY, etc.—St. Bonaventures College, Olean, plans addition, incl. dormitory, etc. $1,000,000.

N. Y., Union — SCHOOLS — Bd. Educ. soon takes bids 2 twelve room schools, Colonial and Morris Aves. $340,000. F. Elsassr, 845 Broad St., Newark, engr. and archt.

N. J., Jersey City—SCHOOL—Bd. Educ. soon takes bids School 22, brick, steel and stone, plain foundation, Van Horne St. $750,000. J. T. Rowland, 100 Sip Ave., engr. and archt. Noted Nov. 19.

Pa., Berwick—SCHOOL—Bd. Educ. Berwick School Dist., plans 3 story and basement, 60 x 100 ft., brick and steel, West End. $175,000.

Pa., State College—CHURCH—Episcopal Diocese, c/o J. Frizzell, pastor, plans brick and steel church, approximately 60 x 90 ft., Main St. $169,000. Engineer and architect not announced.

Miss., Jackson—CHURCH—First Presbyterian Church purchased site and plans rein.-con., brick and stone, State St. $200,000. Engineer and architect not selected.

La., New Orleans — SCHOOL — Orleans Parish School Bd., City Hall having plans prepared by E. A. Christy, c/o owner, Allen School, concrete and stone, Nashville Ave. and Franklin St. $300,000.

O., Fairport Harbor (br. Painesville) — CHURCH—Foose, Fox & Duthie, archts., 6523 Euclid Ave., Cleveland, soon lets contract 2 story and basement, 80 x 120 ft., brick, steel and concrete, here, for St. Anthony of Padua Roman Catholic Church, Z. Demko, pastor. $150,000. Noted Feb. 11.

Ind., Indianapolis — CHURCH, etc. — Irvington Presbyterian Church, G. W. Allison, pastor, Johnson and Julian Sts., having preliminary plans prepared by Harrison & Turnock, 500 Bd. Trade Bldg., brick, steel and rein.-con. church and Sunday school. $150,000.

Ind., Indianapolis—SCHOOL—Cathedral High School, 14th and Meridian Sts., had plans prepared by A. Scherrer, 415 Indiana Trust Bldg., 2 story and basement, brick and rein.-con. school. $1,000,000.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., plans (1st unit) 2 story and basement, rein.-con., brick and steel, plain foundation, Roosevelt Field. $600,000. Engineer and architect not announced.

Mich., Hazel Park (Royal Oak br. Detroit)—SCHOOL—Hazel Park Bd. Educ., John R. and Woodward Ave., plans 2 story and basement, 24 room, rein.-con., brick and steel addition, plain foundation. Engineer's and architect's names withheld.

Illinois—HIGH SCHOOL—La Salle-Peru Twp. High School Bd., T. McCormack, supt., La Salle, takes bids about May 15, 3 story, 65 x 200 ft., and 40 x 60 ft., rein.-con., brick and stone, Charles St. between 5th and 6th Sts., in La Salle and Peru. $400,000. Childs & Smith, 720 North Michigan Ave., Chicago, archts.

Ill., East St. Louis — SCHOOLS — Bd. Educ. making preliminary plans two 3 story, rein.-con., brick and stone schools, one in Lansdowne Dist. and other in Winstanley Dist. J. S. Pidgeon, 600 St. Louis Ave., secy.

Ill., Eureka — HIGH SCHOOL — Bd. Educ. having plans prepared by Royer, Daneley & Smith, Flat Iron Bldg., Urbana, 2 or 3 story, concrete, brick and stone high school. $200,000. Noted Jan. 28.

Ill., Peoria — SCHOOL — Bd. School Inspectors postponed taking bids 3 story, 183½ x 251½ ft., rein.-con. and brick school. $375,000. Noted Jan. 28.

Wis., La Crosse—THEATRE—La Crosse Theatres Co., Rivoli Bldg., plans 3 story and basement, brick, rein.-con. and steel theatre. $150,000. Engineer and architect not selected.

Wis., Manitowoc — HOTEL — Manitowoc Hotel Co., c/o G. Vitt, pres., 15th and Franklin Sts., having plans prepared by M. Tullgren & Sons, 9 Waverly Pl., Milwaukee, 6 story and basement, 92 x 120 ft., brick and concrete, plain foundation, 8th and York Sts. $300,000. Noted Jan. 28.

Wis., Milwaukee—WAREHOUSE—Leenhouts & Guthrie, archts., 424 Jefferson St., takes bids about Mar. 15, 5 story, 44 x 177 ft., and 55 x 117 ft., brick and concrete, plain and wood pile foundation, South Water St., for Milwaukee Storage Co., c/o architects. $150,000.

Wis., Oshkosh — THEATRE — Saxe Amusement Enterprises, 530 Grand Ave., Milwaukee, plans 2 story and basement, brick and concrete theatre, here, $300,000; and remodeling existing opera house $100,000. Engineer and architect not selected.

Wis., Stevens Point — SCHOOL — Bd. Normal Regents, W. J. Kittle, secy., Madison, having plans prepared by A. Peabody, State Capitol, Madison, 2 or 4 story, rein.-con., brick and steel, plain foundation at State Normal School, here. $150,000.

Wis., Wausau—CHURCH—First Presbyterian Congregation, P. Erickson, pastor, 408 Grant St., receiving competitive sketches 2 story and basement, stone and brick, plain foundation, 4th and Grant Sts. $200,000. Engineer and architect not selected.

Ia., Mechanicsville—SCHOOL—Bd. Educ. having preliminary plans prepared by W. J. Brown, Bever Bldg., Cedar Rapids, 3 story, rein.-con., brick and stone school. $150,000.

Minn., Columbia Heights (Minneapolis P. O.)—SCHOOL—Bd. Educ., G. R. Warren, clk., 4144 5th St. N. E., Minneapolis, rejected bids Mar. 4, 3 story and basement, rein.-con., brick and stone school, here. $250,000. Will readvertise. Noted Nov. 11.

Neb., Grand Island—CHURCH—J. A. Duffy, bishop, Catholic Church, rejected bids Mar. 3, brick and stone church. $200,000. Brinkman & Hagan, Emporia, Kan., archt. Noted Feb. 25.

N. D., Grand Forks — SCHOOLS — Bd. Educ. having plans prepared by J. B. de Remer, Security Bldg., 62 x 67 ft. and 75 x 95 ft. rein.-con., brick and stone additions, each 2 story. $175,000. $150,000 bonds voted for same.

Tex., Abilene — ADMINISTRATION — Abilene Christian College c/o B. Baxter & J. C. Reese, vice-pres., plans brick, stone, steel and rein.-con. administration building, incl. auditorium, 2,000 to 2,500 seating capacity. $150,000. Engineer and architect not selected.

Tex., Wichita Falls — CHURCH — St. John's Baptist Congregation, c/o W. K. Curry, (c) 301 Park, having preliminary plans prepared by D. D. Swindle, 317 North Texas Bldg., Dallas, 2 story, brick and stone church. $150,000.

Calif., Gilroy — CHURCH — St. Marys Catholic Church, R. J. Hennessy, pastor, had plans prepared by C. H. Jensen, Santa Fe Bldg., San Francisco, rein.-con. church. $150,000.

Calif., Huntington Park (br. Los Angeles)—SCHOOL—Huntington Park Grammar School Dist., plans fireproof school and auditorium additions. To exceed $250,000. A. W. Angel, 3400 East 5th St., Los Angeles, archt. Noted Mar. 11.

Calif., Los Angeles—HIGH SCHOOL—City of Los Angeles School Dist. having plans prepared by Dodd & Richards, Brack-Shops Bldg., Washington High School, fireproof, 108th St. $500,000.

Calif., Los Angeles—HIGH SCHOOL—Bd. Educ. having plans prepared by Dodd & Richards, 905 Brack-Shops Bldg., new high school buildings, South Normandie Ave. and 108th St. $550,000.

Calif., Mountain View—SCHOOL—Plans new election $205,000 bonds, gymnasium and 2 new grammar schools, for Mountain View High and Grammar School Dists. Noted Nov. 26. Former election defeated.

Calif., Redding — HIGH SCHOOL — Shasta Union High School Dist. having plans prepared by Young & Allen, Union Bldg., Stockton, fireproof high school. $375,000 bonds voted. Noted Dec. 31.

Calif., San Mateo — HIGH SCHOOL — Voted $600,000 bonds, purchasing present high school plant for use as junior high school and erecting new high school, for San Mateo Junior College & Union High School Dist. Noted Nov. 19.

Ont., Toronto — CHURCH — Hill Dist. Presbyterian Church, 2 St. Clair Ave. E., plans 1 and 2 story and basement, rein.-con., stone, brick and steel, plain foundation, De Lisle Ave. $175,000. Engineer and architect not selected.

Ont., Toronto—SCHOOL—Bd. Educ. having plans prepared by C. E. Dyson, 155 College St., replacing present school with 2 story and basement, 9 room, rein.-con., brick and steel, plain foundation, Brant St. $150,000.

Que., Montreal—SCHOOLS—Protestant Bd. School Comrs., 36 Belmont St., having plans prepared by D. R. Brown, 285 Beaver Hall Hill, and G. Thompson, 65 McGill College Ave., 3 school additions. $400,000.

Bids Desired

Mass., Melrose (Ind. br. Boston) — SCHOOL — Mar. 20, by City, City Hall, 2 story and basement, brick and steel, 1st St. $200,000. C. R. Greco, 11 Beacon St., Boston, archt. Noted Feb. 18.

N. Y., Corning—HIGH SCHOOL—Mar. 30, by Bd. Educ. brick, steel and stone, plain foundation, Kingsburg Ave. $350,000. Palmer Rogers, 101 Park Ave., New York City, engr. and archt. Noted Feb. 11.

Pa., Berwick—CHURCH—Mar. 22, by First Presbyterian Church and J. C. Fulton & Son, archts., Uniontown, 1 and 2 story and basement, irregular shaped church. $200,000. Noted Jan. 7.

Pa., Hazleton—SCHOOL—Apr. 6, by D. T. Evans, secy. School Dist., 3 story and basement, 250 x 250 ft., brick and Indiana limestone school. $500,000. J. J. Nesbitt, 213 Vermont Ave., Atlantic City, N. J., heating engrs. Lawrie & Green & Co., 116 Locust St., Harrisburg, archts. Noted Oct. 15.

Pa., New Phila.—CONVENT—G. C. Freeman, archts., 6th Court Sts., Reading, taking bids 3 story and basement, 25 x 84 ft., 56 x 56 ft., 34 x 88 ft., rein.-con., brick and steel, concrete foundation, here, for Sacred Heart Roman Catholic Church, Silver Creek. $150,000. Noted Sept. 3.

Ind., Greensburg—CHURCH—Mar. 26, by First Methodist Episcopal Church, A. Whitman, pastor, 311 North Broadway, brick and steel church. $150,000. H. Foltz, 843 Lemcke Ave., Indianapolis, archt. Noted Dec. 31.

Mich., Detroit—ENGINEERING—Malcolmson & Higginbotham, archts., 1217 Griswold St., taking bids 2 and 3 story and basement, 140 x 217 ft., rein.-con., brick and steel, plain foundation, Livernois Ave., for University of Detroit. Noted Dec. 3.

Minn., Duluth—SCHOOL—Apr. 1, by C. A. Bronson, clk. Bd. Educ., 226 North 1st Ave., 2 story and basement, 71 x 125 ft., rein.-con., brick, stone and steel addition, and remodeling present school, 1st St. $200,000. Holstead & Sullivan, 607 Palladio Bldg., archts. and engrs.

Neb., Lincoln—UNIVERSITY—Mar. 26, by D. P. Wilson, archt., Lincoln, 2 story and basement, brick university building, campus, for University of Nebraska. $175,000.

Buildings—Educational, Religious (Cont.)

Neb., Omaha—SCHOOL—Mar. 25, by M. E. Bird, secy. Bd. Educ., City Hall, 2 story and basement, rein.-con. and brick, 45th and Hamilton Sts. $190,000. N. P. Brigham, Kneeline Bldg., W. C. Steinbaugh, Brandeis Theatre Bldg., also F. W. and E. B. Clarke, World Herald Bldg., archts.

S. D., Aberdeen—CHURCH—Mar. 30, by First Presbyterian Church, c/o C. W. Leighty and L. J. Voltz, 42 x 100 ft., rein.-con., brick and stone church. $150,000. G. F. Fossum, 319 Van Slyke Bldg., archt. Noted Feb. 25.

Calif., Los Angeles—COLLEGE—A. C. Martin, archt., Higgins Bldg., taking bids 2 story, 120 x 250 ft., rein.-con. and brick, 3rd and Detroit Sts., for Roman Catholic Archbishop of Los Angeles. $300,000. Noted Jan. 28.

Calif., San Francisco—SCHOOL—Mar. 24, by Bd. Pub. Wks., general contract West Portal School, fireproof, Taraval St., for City and San Francisco Co. $156,000. J. Reid, Jr., city archt.

Bids Received

Mass., Walpole—HIGH SCHOOL—Town, F. L. Mansur, supt. schools, 2 story and basement, brick and steel, from Greany & Sherry, 827 Davol St., Fall River, $372,500. Noted Feb. 18.

Conn., Stamford—SCHOOL—City, C. H. Martin, school com., 3 story and basement, brick and steel, Lockwood Ave., from L. Keil, North Harlem Ave., Ossining, N. Y., $164,000. Noted Feb. 25.

Pa., West Pittston (Pittston P. O.) — HIGH SCHOOL — West Pittston School Dist., general contract 2 story and basement, 50 x 300 ft. high school, from H. Marlander, 167 Barney St., Wilkes-Barre, $231,000. Noted Feb. 25.

O., Kent—TRAINING SCHOOL—State Normal School, 2 story and basement, brick, steel and concrete, from V. W. Surber, 109 North Union St., Akron, $264,000. Noted Feb. 18.

Mich., Detroit—SCHOOL—Bd. Educ., C. A. Gadd, bus. mgr., 1354 Bway., general contract 2 story and basement, rein.-con., brick and steel, plain foundation, Martin and McGraw Aves., from Rosewarne McNabb & Worswick, 333 State St., $682,940. Heating from W. J. Requoldt, 524 State St., $169,000; lighting from Gray Electric Co., 627 Jones St., $39,977. Noted Feb. 11.

Wis., Milwaukee — CONTINUATION SCHOOL — A. O. Muehl, secy. Bd. Industrial Educ., 7th and Prairie Sts., structural steel for (3rd unit) 6 story and basement, 143 x 268 ft., brick, steel and concrete, plain foundation, 6th and State Sts., from Worden-Allen Co., Port Washington Rd., $84,942. Noted Feb. 18.

Minn., Minneapolis — BOTANY — Dept. Administration & Finance, Capitol, St. Paul, Mar. 4, 3 story and basement, rein.-con., brick and stone on University campus, here, general contract, from Devereaux-Olson Constr. Co., 716 11th Ave. S., $153,251. Noted Feb. 25.

Minn., Rochester—SCHOOL—Bd. Educ., S. L. Seamon, clk., general contract 3 story and basement, 64 x 244 ft., rein.-con. brick and stone school, from M. Madsen Co., 702 Natl. Bldg., Minneapolis, $187,000. Noted Feb. 18.

Mo., St. Louis—SCHOOL—Bd. Educ., 911 Locust St., general contract Lowell Grade School, 3 story, rein.-con., brick and stone, Von Phul and Linton Sts., from Hiram Lloyd Building & Constr. Co., Syndicate Trust Bldg., $245,790; heating and ventilating, from Eichler Heating Co., Ry. Exch. Bldg., $29,947. Noted Dec. 3.

Calif., Los Angeles — SCHOOL — Bd. Educ., Mar. 3, general contract Wiggins Trade School, 2 story, 120 x 250 ft., and one 10 story, 97 x 115 ft., rein.-con., from W. E. Warne, Rives-Strong Bldg., $469,695. Noted Feb. 25.

Calif., Pasadena — SCHOOL — Pasadena Junior High School Dist., general contract rein.-con. addition to Central and Oak Knoll School, from United Building & Finance Co., 1262 North Fair Oaks Ave., Pasadena, $107,300. Noted Feb. 25.

Contracts Awarded

Mass., Chelsea (Boston P. O.)—CHURCH—First Church Christ Scientist, J. C. Taylor, chn. com., 2 story and basement, 40 x 55 ft., brick and stone, Cary Ave. and Tudor St., to J. C. Pitcher, 46 Cornhill St., Boston. Archts. est. $150,000.

Mass., Clinton — CHURCH — First Methodist Episcopal Church, Walnut St., 2 story and basement, 65 x 115 ft., stone, Walnut St., to L. D. Russell, 438 High St. Archts. est. $150,000. Noted Feb. 4.

Mass., Orange — SCHOOL — Bd. Educ., brick, steel and stone, school, plain foundation, to Taylor-Wheeler Corp., Athol. Archts. est. $200,000. Noted Feb. 25.

Mass., Quincy (Ind. br. Boston)—HIGH SCHOOL—City, Pub. Building Dept., City Hall, Junior High School, 3 story and basement, 82 x 134 ft. and 70 x 170 ft., brick, steel and stone, Hancock St., to Simpson Bros. Corp., 77 Summer St., Boston, $370,117. Noted Mar. 11.

Mass., Roxbury (Boston P. O.)—SCHOOL—City, School House Dept., Boston, 2 story and basement, brick addition, Lewis Dist., Walnut Ave. and Paulding St., here, to Leighton-Mitchell, 99 Chauncy St., Boston, $246,740.

Mass., Somerville (Boston P. O.)—CONVENT — St. Benedicts Roman Catholic Church, W. J. Foley, pastor, 25 Arlington St., 3 story and basement, brick and stone, Franklin St., to Capobianco Constr. Co., 46 Cornhill St., Boston. Archts. est. $155,000.

Pa., Erie—SCHOOL—Bd. Educ., R. S. Scobell, bus. mgr., 2 story and basement, brick, steel and concrete addition, Wayne St., to Continental Constr. Co., Commerce Bldg. Archts. est. $150,000.

Pa., Moylan—ACADEMY—Sisters Notre Dame, 3 story and basement, 77 x 92 x 188 ft., steel, brick and stone academy and arcade, plain foundation, to Murphy Quigley Co., 1524 Sansom St., Phila. Archts. est. $400,000.

Pa., Phila.—SCHOOL—Bd. Educ., 19th and Chestnut Sts., J. D. Cassell, supt. Buildings, 3 story attic and basement, 109 x 165 ft., rein.-con. and brick, plain foundation, 6th and Master Sts., general contract, to W. Langborne, 10 South 18th St., $419,024; heating, to D. J. Keating, 2042 Rittenhouse St., $43,231. Noted Feb. 25.

Pa., Pittsburgh — CATHEDRAL — St. Pauls Cathedral, 5th Ave. and Craig St., general contract 2 and 3 story and basement, irregularly shaped, 5th Ave. and Craig St., to Duquesne Constr. Co., Cypress and Aspen Sts. Archts. est. $200,000.

La., Baton Rouge — HIGH SCHOOL — East Baton Rouge Parish School Bd., 3 story high school, to Caldwell Bros., 816 Howard Ave., New Orleans, $468,000; plumbing and heating, to C. A. Hunter, Alexandria, $41,107. Noted Jan. 21.

Ind., Bloomington — SCHOOL — School Trustees, G. F. Holland, pres., general contract 2 story, brick, steel and rein.-con. grade school, to L. Colvin, 16th and Meridian St., Indianapolis, $125,000. Noted Feb. 25.

Mich., Detroit—MEDICAL COLLEGE—Bd. Educ., 1354 Bway. Ave., general contract 6 story and basement, 65 x 115 ft., rein.-con., brick and steel, plain foundation, Mullet and St. Antoine Sts., to Martin-Krausman Co., 955 East Jefferson Ave., $248,600. Noted Mar. 11.

Ill., Evanston—AUDITORIUM—Northwestern University, general contract 8 story, 75 x 202 ft. auditorium, to R. C. Wieboldt Co., 1534 West Van Buren St., Chicago. Archts. est. $650,000.

Ill., Polo—HIGH SCHOOL—Bd. Educ., general contract 2 story and basement, 80 x 110 ft., concrete, brick and stone high school to Savanna Constr. Co., Savanna, $133,970; plumbing and heating, to Klein & Heckman, Dixon, Ill., $43,500.

Ia., Des Moines — ATHLETIC FIELD HOUSE — Drake University, 25th St. and University Ave., general contract 3 story, 150 x 212 ft., concrete, brick and steel, to C. Weitz Sons, 713 Mulberry St., $155,000; plumbing and heating, to Pothoff & Rosene Co., 1326 Grand St., $27,074. Noted Jan. 28.

Minn., Minneapolis — SCHOOL — Bd. Educ., G. F. Womrath, bus. supt., 305 City Hall, general contract 3 story and basement, rein.-con., brick and stone addition, 14th St. and Spruce Pl., to L. E. Brophey & Co., 531 Lyndale Ave., $98,000. Noted Mar. 11.

Mo., St. Louis—CHURCH—H. P. Hess, archt., 1237 North Taylor Ave., general contract 2 story and basement, 60 x 164 ft., rein.-con., brick and stone, Carter and Marcus Aves., to H. Kissel & Son, 4107 West Florissant Ave., for St. Engelberts Parish, c/o A. J. Von Brunn, pastor, 4740 Carter Ave. Archts. est. $200,000. Noted Feb. 18.

Nev., Reno—CHURCH—Trinity Memorial Church, c/o E. T. Brown, pastor, rein.-con. church, here, to R. S. Schaedler, 666 California St., $155,500.

Calif., Los Angeles — SCHOOL — Bd. Educ., general contract 17th St. School, 2 story, brick, Georgia and 17th Sts., to J. F. Kobler, 932 South Rimpau Blvd., $102,678. Noted Mar. 4.

Calif., San Gabriel—DORMITORY—California Christian Home, 2 story and basement, brick, to Sherer & Son, 1880 East Anaheim Rd., Long Beach, $165,000.

Federal Government Work

Proposed Work

Ind., Fort Wayne — Remodeling — Treas. Dept. at office Supervising Archt., will let remodel and enlarge U. S. Post Office and Court House, here. Any bids received up Mar. 17, will be returned unopened. Project abandoned. Noted Mar. 4.

Bids Desired

Pa., McKeesport—Remodeling—Apr. 1, by Treas. Dept. at office Supervising Architect, Wash., D. C., remodeling U. S. Post Office, here; adv. E. N.-R. Mar. 18.

Wis., Milwaukee—Foundation Pier—Mar. 31, by Superintendent Lighthouses, 197,000 lb. reinforcing for rein.-con. in foundation pier at Milwaukee Northbreakwater; adv. E. N.-R. Mar. 18.

Wis., Sheboygan—Driveway—Apr. 2, by Treas. Dept. at office Supervising Architect, driveway at U. S. Post Office, here.

Iowa—Earthwork—Apr. 6, by Secretary Mississippi River Comn., 1311 International Life Bldg., St. Louis, Mo., about 180,000 cu.yd. earthwork by hydraulic method in Iowa River-Flint Creek Levee Dist. No. 10, here; adv. E. N.-R. Mar. 18.

Nebraska and Wyoming—Turbine, etc.—Apr. 20, at office Bureau Reclamation, Dept. Interior, Denver, Colo., E. Mead, comr., hydraulic turbine to deliver 3,400 hp. operating at 65 ft. head, etc., for Guernsey power plant, North Platte Project; adv. E. N.-R. Mar. 18.

Tex., Galveston—Dredging—Apr. 16, by U. S. Engineers Office, dredging Sabine-Neches Waterway; adv. E. N.-R. Mar. 18.

Bids Received

Ala., Mobile—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., Mar. 15, remodeling U. S. Post Office, here, from A. C. Samford, 24 Galena St., Montgomery, $11,000. Noted Feb. 25.

Ind., Michigan—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., Mar. 12, 1 story extension and remodeling U. S. Post Office and Court House, here, from R. E. Meyer, 1901 Washington Ave., $9,700. Noted Feb. 25.

Ind., Terre Haute—Post Office—Treas. Dept., at office Supervising Architect, Wash., D. C., Mar. 10, constructing post office and court room, here, from W. MacDonald Constr. Co., Odd Fellows Bldg., St. Louis, Mo., $18,660. Noted Feb. 18.

Mich., Jackson—Post Office—Treas. Dept., at office Supervising Archt., Wash., D. C., Mar. 8, extension to U. S. Post Office and Court House, here, from Universal Constr. Co., Ft. Wayne, Ind., $14,700. Noted Feb. 18.

Ore., Wauna — Excavating — U. S. Engineer Office, Portland, excavating and disposing approximately 984.7 cu.yd. rock from Columbia River, here, from Pacific Bridge Co., foot East Salmon St., Portland, at $30.15 per cu.yd. (120 days).

Contracts Awarded

Calif., San Diego—Water Meter, etc.—Spec. 5165—Bureau Yards & Docks, Navy Dept., Wash., D. C., water meter, tank, equipment, etc., for Naval Operating Base (Marine Corps Base), here, to W. E. Kier Constr. Co., 813 1st Natl. Bank Bldg., $8,083 (120 days). Noted Mar. 4.

FEDERAL POWER COMMISSION

Application for Licenses and Permits

Applications

692—Penn Pub. Serv. Corp., Johnstown, Pa.—Wants license transmission line across lands of Allegheny Natl. Forest, Elk Co.

693—Town of Highlands, Macon Co., N. C.—Wants license small power project in Cullasagee River, within Mantahala Natl. Forest.

694—Broad River Power Co., Columbia, S. C.—Wants preliminary permit power project at Drehers Shoals about 12 mi. above Columbia, in Saluda River, Lexington Co.

695—Western Smelting & Power Co., Eitel Bldg., Seattle Wash.—Wants license transmission line in Beartooth Natl. Forest, Park Co., Mont.

696—Utah Light & Power Co., Salt Lake City, Utah.—Wants license power project in Upper and Lower American Fork River within Wasatch Natl. Forest, Utah Co.

Unclassified

Proposed Work

Coal Plant — Boston, Mass. — Boston & Maine R.R., North Sta., plans wharf coal plant. $500,000. F. C. Shepherd, asst. ch. engr. Architect not selected.

Park — Hingham, Mass. — Town plans park. $25,000 appropriated. Engineer not selected.

Traffic Signals—Hartford, Conn.—Hartford Electric Light Co., 266 Pearl St., making plans purchasing and installing 7 electrically operated traffic units. $40,000. W. E. Batterson, chn. Mechanical Signal Com.

Power Lines—Buffalo, N. Y.—Niagara Lockport & Ontario Power Co., Lafayette Bldg., plans extending electric system to supply town of Covington, Wyoming Co. To exceed $50,000.

Gas Main—New Jersey—Pub. Serv. Gas Co., 222 East State St., Trenton, plans 7 mi. 6 in. gas line from Princeton to Hightstown. J. H. Galt, c/o owner, engr.

Heating and Ventilating—Newark, N. J.—See "Buildings—Commercial under Contracts Awarded."

Natatorium—Singac, N. J.—Owner, c/o D. M. Ach, archt. and engr., 1 Madison Ave., New York City, soon takes bids brick and steel natatorium, plain foundation, Grand View Park, here. $125,000.

Sea Wall — Mississippi — Harrison Co. (Gulfport) voted $1,400,000 bonds, 9.5 mi. rein.-con. sea wall along beach front between Gulfport and Biloxi. H. D. Shaw, Gulfport, engr. Noted Mar. 4.

Sub-Division—Biloxi, Miss.—O. O. Carpenter, vice pres. Holmhaven-on-the-Gulf, Inc., 2800 West Beach St., Biloxi, and 360 North Michigan Ave., Chicago, Ill., soon takes bids improving 250 acre sub-division, incl. paving, curbing, sewering, sidewalks, waterworks, gas, street lights, etc., on Biloxi-Gulfport beach front between Biloxi and Gulfport. $750,000. Noted Oct. 15.

Telephone Lines, etc.—Indianapolis, Ind.—Indiana Bell Telephone Co., C. H. Rottger, pres., New York and Meridian Sts., plans extending toll lines and installing new equipment, also exchange buildings at Marion and Muncie, $50,000 each. Total $2,125,000.

Park Development—East St. Louis, Ill.—East St. Louis Park Dist., Cahokia Bldg., election Apr. 6, $500,000 bonds, developing Big Lake Park, incl. roads, walks, landscaping, etc.

Stadium—Evanston, Ill. — Northwestern University, 619 Clark St., and G. Haddon, engr., 280 Madison Ave., New York City, take bids about Mar. 26, double deck, 600 x 630 ft., 49,000 seating capacity, concrete, steel and stone, Central St. J. G. Rogers, 267 Lexington Ave., New York City, archt. Noted Jan. 28.

Wharf Improvements — Helena, Ark. — Wharf Impvt. Dist. 1, c/o E. M. Allen, chn., takes bids in March or April, rein.-con. and timber wharf, and 100 x 300 ft., brick and concrete warehouse. $400,000. W. F. Schultz, 871 Shrine Bldg., Memphis, Tenn., engr.

Swimming Pool—Ft. Worth, Tex.—Recreation Bd., c/o M. D. Evans, supt., having plans prepared by E. W. Van Slyke & Co., Reynolds Bldg., 100x150 ft., rein.-con. swimming pool and frame bath house, Sycamore Park. $55,000.

Street Lighting System—Klamath Falls, Ore.—See "Sewers."

Gravel Bunkers, etc.—Berkeley, Calif.—Acme Gravel Co., 1401 Potrero Ave., San Francisco, plans gravel bunkers and storage yards, 9th St. between Gilman St. and Cordornices Creek, here. To exceed $75,000.

Gravel Bunkers, etc.—Oakland, Calif.—Acme Gravel Co., 1401 Potrero Ave., San Francisco, plans gravel bunkers and storage yards in West Oakland Sect., here. To exceed $75,000.

Park Improvements—Palo Alto, Calif.—Plans election, $50,000 bonds, park improvements. J. F. Bxybee, Jr., city engr.

Boxing Pavilion—San Francisco, Calif.—J. Tait, Phelan Bldg., plans fireproof pavilion, 10,000 or more seating capacity, Post and Steiner Sts. $150,000.

Tunnel—San Francisco, Calif.—Bd. Pub. Wks. takes bids about May 5, constructing Sunset (Duboce) Tunnel, 4,232 ft. long (portal to portal), 25 ft. wide, 18 ft. 9 in. high above rail grade, 122,000 cu.yd. excav. (90,000 cu.yd. serpentine and sandstone and 32,000 cu.yd. sand), 24,600 cu.yd. concrete, 1,211,000 lbs. reinforcing, etc. $1,650,000. M. M. O'Shaughnessy, city engr. Noted Mar. 19, 1925.

Bids Desired

Sanitary Work, etc.—Ogdensburg, N. Y.—Apr. 7, by State Hospital Comn., Capitol, Albany, sanitary work, water supply, etc., at St. Lawrence State Hospital, here. S. W. Jones, Albany, state archt.; adv. E. N.-R. Mar. 18.

Lighting System—Avon Park, Fla.—Mar. 23, by Council, c/o W. King, mayor, lighting system on various streets.

Culverts—Georgia—See "Bridges."

Transmission Line—Arkansas—See "Contracts Awarded."

Swimming Pool—Marysville, Calif.—City Trustees taking bids concrete swimming pool. $50,000. G. C. Sellon, California State Life Bldg., Sacramento, archt. Noted Feb. 18.

Contracts Awarded

Wharf—Boston, Mass.—Lewis Wharf Co., 50 State St., superstructure timber wharf, Atlantic Ave., to Natl. Eng. Corp., 60 Federal St. Archts. est. to exceed $40,000.

Gas Line—Connecticut—Greenwich Gas Co., Greenwich, designing and constructing high pressure gas line from Stamford westward and serving Sound Beach, Riverside, Cos Cob, South Glenville and East Portchester, to Stone & Webster, 147 Milk St., Boston, Mass., approximately $600,000.

Platform Extensions—Brooklyn, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, extending station platforms for Bway.-4th Ave. Rapid Transit R.R., Group 4, here, to Corson Constr. Co., Inc., 1440 Bway., New York City, $345,022. Noted Mar. 4.

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., subway Sect. 1, Route 102, under and along Greenwich and 8th Aves., from Bank to West 17th Sts., to Moranti & Raymond, 42 Bway., $4,160,322. Noted Mar. 4.

Culvert—Cleveland, O.—Concrete culvert in Doan Brook in Wade Park, to H. J. Scott Constr. Co., 1968 East 116th St., $44,269.

Foundation, etc. — Chicago, Ill. — R. G. Wolff, archt., 410 North Michigan Ave., foundation and excavation contract for 3 story, 135 x 225 ft., brick and terra cotta theatre, store and apartment, Irving Park Blvd. and Austin Ave., to A. Brundage, 110 South Dearborn St., for Mitchell Bros., c/o architects. Noted Mar. 4.

Lighting System — Chicago, Ill. — Bd. Local Impvts., Room 207, City Hall, street lighting system for Sects. 5-B, 6, 7, 8 and 9 of South Water St. Impvt., to U. S. A. Co., 844 Rush St., $85,975. Noted Feb. 25.

Culverts—Carroll, Ia.—See "Streets and Roads."

Grain Elevator — Minneapolis, Minn. — Hallet & Carey, 112 Chamber of Commerce, general contract grain elevator, rein.-con. and steel, 16 tank and 18 small bins, Elm St. and 5th Ave. S. E., to McKenzie-Hague Co., 1502 Nicollet Ave. Total approximately $300,000.

Golf Course—St. Louis, Mo.—See "Buildings—Commercial."

Land Development — St. Louis, Mo. — Bixby-Smith, Inc., Security Bldg., developing Osage Hills subdivision on Meramec River and Big Bend Rd., St. Louis Co., incl. concrete and asphalt streets, sidewalks, storm and sanitary sewers, waterworks, etc., to W. H. Smith-N. Cunliff Co., 110 North 7th St. Engrs. est. $1,000,000.

Transmission Line — Arkansas — Southwest Power Co., Fayetteville, will build 28 mi. 33,000 volt transmission line from Fayetteville to Forest Park, by day labor. $45,000. Private plans. W. B. Miser, asst. genl. mgr.

Heating and Plumbing—Hot Springs, Ark.—See "Buildings-Commercial."

Swimming Pool—Dallas, Tex.—City Park Bd., c/o E. B. Cauley, secy., 133 x 209 ft., rein.-con., Fair Park, to R. J. Estep & Co., 903 Praetorian Bldg., $59,600. Archts. est. $60,000.

Subway—Fresno, Calif.—Fresno Co., subway under Santa Fe R.R. tracks in McKinley Ave., 2,050 cu.yd. 1-3-5, and 100 cu.yd. 1-2-4 mass concrete, 9,000 cu.yd. excav., and 22,800 sq.ft. concrete paving, to Thompson Bros., Divisadero and G Sts., for Fresno Co. and Santa Fe R.R. Co., 80 East Jackson Blvd., Chicago, Ill. $39,837. Noted Mar. 11.

Swimming Pool, etc.—Inglewood, Calif.—Inglewood Union High School Dist., 1 story, 78 x 110 ft. frame building, incl. 50 x 75 ft., rein.-con. pool, to Jones Bros., 929 Venice Blvd., Los Angeles, $29,995.

Grand Stand—Sacramento, Calif.—State Dept. Pub. Wks., Mar. 2, general contract brick and steel grand stand, to J. S. Knapp, 601 East Main St., Turlock, $137,500. Noted Feb. 18.

Materials

Proposed Work

Road Oil — New Haven, Conn. — Soon takes bids 350,000 gal. 45% asphaltic road oil, also non asphaltic and bituminous material. Address Superintendent Streets, 80 Water St.

Cement, etc.—Brantford, Ont.—City soon takes bids 200 bbl. cement, 50 tons asphalt, 100,000 gal. road oil, 50 tons stone dust, etc. $30,000-$35,000. F. P. Adams, City Hall, engr.

Bids Desired

Cast Iron Pipe—Quincy (Boston P. O.), **Mass.**—Mar. 25, by J. J. Cosgrove, comr. Pub. Wks., 1,270 tons 20 in., 510 tons 16 in., 1,414 tons 12 in., 520 tons 10 in., 83 tons 8 in., and 8 tons 6 in. c.i. pipe, also 35 tons fittings. Metcalf & Eddy, 14 Beacon St., Boston, engrs.

Asphalt and Tar, etc.—Holyoke, Mass.—Mar. 23, by Bd. Pub. Wks., 25,000 gal. or more asphalt and tar, 26½ tons concrete, also 5,000 bbl. or more cement for road construction. J. J. Myers, City Hall, engr.

Sewer Pipe, etc. — New Haven, Conn. — Mar. 19, by City, Pub. Wks. Dept., City Hall, vitr. sewer pipe, blue stone, cement, tar oil, asphaltic oil, sewer castings and crushed stone, and furnishing and applying hot asphalt on various streets, required by city for 1 year. E. S. Nettleton, City Hall, engr.

Timber Piles—Albany, N. Y.—Apr. 2, at office Albany Port Dist. Comn., 100 State St., timber piles for bulkhead construction. F. C. Herrick, chn.; adv. E. N.-R. Mar. 18.

Structural Steel—Atlanta, Ga.—Mar. 26, by W. R. Price, purch. agt. City Hall, structural steel for two 80 ft. deck plate girder spans for underpass under tracks Southern Railway, at Forest Ave. C. E. Kaufman, City Hall, engr.

Paving Blocks, etc.—Akron, O.—Mar. 22, by A. S. Helpbringer, purch. agt., 900,000 large paving blocks, 350,000 small paving bricks, 700 tons asphalt filler.

Asphalt Road Oil—Clayton, Mo.—Mar. 24, by St. Louis Co. Court, Court House, approximately 100 car loads 60-70 per cent asphalt road oil delivered at various points. R. Jablonsky, Court House, engr.

Road Oil, etc., Clayton, Mo.—Mar. 24, by R. Jablonsky, engr. St. Louis Co., Court House, 100 tank cars 60% asphalt road oil, approximately 900,000 gal. to be used during 1926.

Pipe, etc.—Toronto, Ont.—Mar. 27, by East York Twp., H. E. Goddard, purch. agt. 443 Sammon Ave., Toronto, c.i. pipe, fittings, meters and valves, pig lead, lead pipe, copper pipe, Portland cement, crushed stone, sand, gravel, lumber, etc. $50,000. G. R. Jack, 443 Sammon Ave., engr.

Bids Received

Road Oil—Arcola, Ill.—Street and Alley Comn., 10,000 gal. 80% asphalt road oil, from Ozee & Hayes, Mattoon, at $6.85 per 100 gal.; and 10,000 gal., from Standard Oil Co. at $6.88 per 100 gal. spread on streets. Noted Feb. 18.

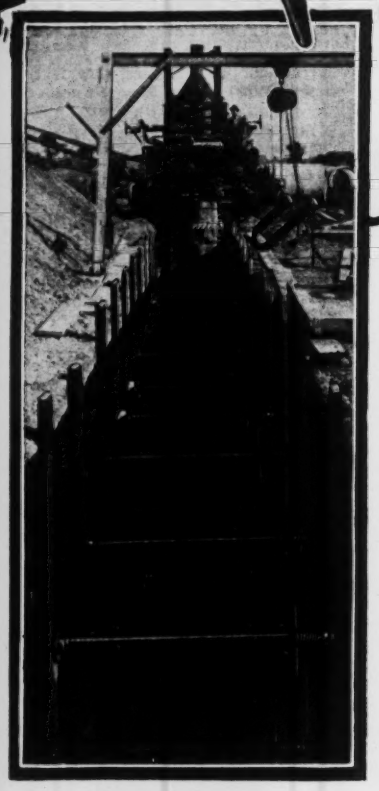
Contracts Awarded

Binder, etc.—Mt. Holly, N. J.—Burlington Co., 2,000 gal. lignin binder, to M. R. Young, 34 Fisher Pl., Trenton, $0.134 per gal.; 6,000 tons washed pebbles, to Natl. Supply Co., Mt. Holly, $0.70; 10,000 tons slag, to Phila. Slag Co., Pennsylvania Bldg., Phila., Pa. $1; 10,000 tons 1½ in. and 2½ in. broken stone, to Lambertville Stone & Quarry Co., Lambertville, at $1.40 and $1.60, respectively; cut back asphalt, to Atlantic Refining Co., 260 South Broad St., Phila., Pa. $0.17; cold tar and hot tar, to T. Tobish, Mechanic Bldg., Trenton, at $0.154 and $0.144, respectively; slow curing oil, to Asphalt Serv. Co., 84 Bayard St., New Bruswick, $0.73 per gal.

Lumber, etc. — Harlan, Ia. — Auditor Shelby Co., 200,000 ft. Douglas fir bridge lumber, 11,750 ft. creosoted pine piling, 16,500 ft. creosoted lumber, etc., to Nebraska Bridge Supply & Lumber Co., Peters Trust Bldg., Omaha, Neb., $21,381; 3,790 ft. corrugated culvert pipe etc., to Iowa Pure Iron Co., East 8th and Elm Sts., Des Moines, $8,913. Noted Jan. 21.

They're Safe

DUFF Trench Braces *Hold*



A FEW turns of the screw handle and the Duff Extensible Steel Brace is placed - to stay - sure and safe.

Ball and socket swivel ends make it adjustable to any angle, the lugs gripping tightly into the sheeting.

No passing vehicles, trench machinery vibration, nor careless laborers can jar it loose or knock it out of place. It cannot slip - eliminating costly cave-ins. It saves time and labor—can be used on job after job, year after year.

Duff Extensible Steel Trench Braces are made with malleable iron fittings and steel screws - no cast iron to break and cause accidents. They are light and strong, and easily adapted to any width trench by simply changing the pipe, which is standard black pipe.

Buy from your Jobber, or write us.

The Duff Manufacturing Co.
PREBLE AVENUE PITTSBURGH, PA.

DUFF

—and when you need Jacks

There is a Duff Jack for every lifting requirement. All sizes and capacities from light 1 ton Truck Jacks to heavy 75 ton Ball Bearing Screw Jacks. Exclusive manufacturers of genuine Barrett Jacks, the simplest, sturdiest general utility jacks on the market to-day.

Duff Barrett Automatic Lowering Jacks

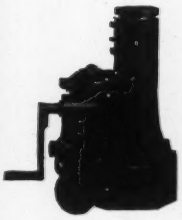
5-10-15 tons capacity

Every known improvement suggested by 40 years of jack manufacturing and engineering experience, is incorporated in these models making them of the highest mechanical perfection. They are unexcelled in safety, low repair cost and easy and convenient operation.

Duff Standard Ball Bearing Screw Jacks

15 to 35 tons capacity

Very useful for heavy work of any character including bridge work, car repairing and handling of structural material. Especially suitable for rough outdoor usage. Equipped with foot lift for convenient handling of low loads. Loads lifted with least possible effort on part of operator.



Duff High Speed Ball Bearing Screw Jacks

50 to 75 tons capacity

While designed especially for heavy locomotive work these powerful jacks are adapted for heavy lifting of any character. They are easy to operate because of their ball bearing construction and accurate workmanship.

75 ton model equipped with wheels for convenient moving about.

Send the Coupon for Illustrated Literature

Duff Manufacturing Co.
Preble Avenue, Pittsburgh, Pa.

Please send me Illustrated Literature containing detailed information on

☐ Trench Braces ☐ Lifting Jacks

Name.....

Street.....

City..... State.....

Business Side of Construction

FACTS AND EVENTS THAT AFFECT COST AND VOLUME

This Week's Contracts—Week Ago—Same Week Last Year

THE money value of contracts reported in the present issue of *Engineering News-Record* is here compared with the figures for corresponding weeks. Minimum costs observed are: $15,000 for water-works and excavations; $25,000 for other public works; $40,000 for industrial and $150,000 for commercial buildings.

Money Value of Contracts Let—Entire U. S.

Week Ending	Public Work	Private Work	Total Contracts
March 25, 1926	$17,776,000	$28,126,000	$45,902,000
March 18, 1926.....	20,805,000	22,434,000	43,239,000
March 26, 1925.....	13,863,000	21,322,000	35,185,000
January 1 to date			
1926.....	199,907,000	401,022,000	600,929,000
1925.....	176,511,000	304,913,000	481,424,000

Where Markets For Paint Appear Most Promising

A TOTAL of $1,763,279 spent for paint, exclusive of labor, on 367 jobs throughout the country during the first two months of 1926, shows an average value of $4,804 per project.

A comparison of the average value per job for the United States, in this connection, with paint cost per project in the various sections of the country is given in the accompanying illustration.

For buildings of this character, that is, industrial, $40,000 and over, commercial and other buildings, $150,000 and up, the most fertile area for paint sales is evidently in the Middle Atlantic section, with the Mid-west next and the Southern states third.

The Far West is but slightly under the South so far as demand is concerned, while the section between the Rocky Mountains and the Mississippi appears comparatively slow, with New England showing the least activity of the six great geographical divisions of the country, seasonal conditions considered. The figures on the map deal with contracts already awarded.

Substantial gains were noted in industrial and public building projects definitely reported as proposed, in New England and the Middle West, comparing February with the month preceding.

Since Mar. 1, however, there has been consistent weekly increase in building projects proposed, according to *Engineering News-Record* statistics, in the following states:

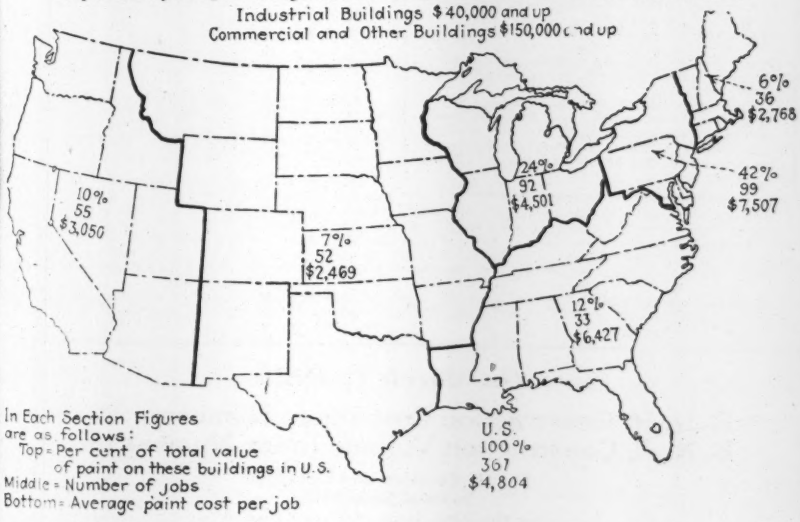
State	Week of Mar. 4	Mar. 11	Mar. 18	Class of Building
Illinois..	$1,700,000	$3,200,000	$4,225,000	Com'l
Wisconsin	150,000	335,000	645,000	Indus.
New York	.....	18,700,000	25,060,000	Com'l
Calif.....	.....	4,625,000	5,990,000	Com'l
Florida...	.....	3,250,000	5,950,000	Com'l

Over three-quarters of these proposed projects will reach the contract stage between April and June of this year and will require paint at that time.

Value of Paint Required for the Building Contracts

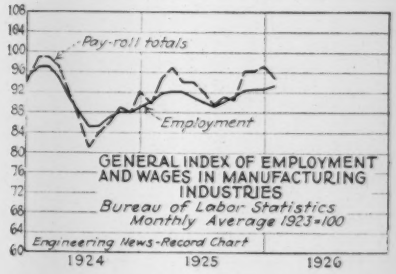
Reported by *Engineering News-Record* in First Two Months of 1926

Industrial Buildings $40,000 and up
Commercial and Other Buildings $150,000 and up



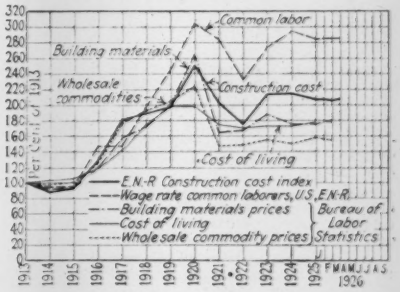
Materials Prices Tending Downward

A downward tendency, evident in wholesale prices since the first of the current year, is also noted in pay-roll totals in the principal manufacturing industries of the nation. Factory employment has increased, indicating a smaller wage rate per hour.



The trend of labor costs in the construction industry has been in the opposite direction from that of factory labor, while employment remained steady.

The gain of 0.5 per cent in March construction cost, over that of the month preceding, was principally due to higher labor rates.



Lumber prices have not fully recovered from the slight drop which occurred during February, compared with the month preceding. Brick tends upward as the spring building season approaches with the usual scarcity forseen in the Northern districts. Steel structurals show little tendency to fluctuate, while prices of other building and construction materials reflect merely the seasonal acceleration in demand.

Weekly Construction Market

CONTRACT letting, Jan. 1 to date, is 24 per cent ahead of the corresponding period last year. Revenue freight loadings, since the first week of the current year, have regularly exceeded 900,000 cars per week, an achievement not attained during the peak year 1925. More than a quarter of this freight represented building and construction materials. Weekly bank debits since Jan. 1, have been consistently heavier than during the same weeks in 1925.

These three vital factors serve to offset, to a degree, the depressing effects of the recent stock market deflation. The liquidation referred to was also reflected in a similar turn in the commodities market, affecting mainly non-ferrous metals, rubber, grains, cotton, coffee and sugar.

Production (all materials included) has pursued during the past two years, a decidedly downward course throughout the first half, followed by a reaction in the latter part of each year. Wholesale prices described a somewhat similar course during 1924 and 1925. This year started off with most of the characteristics of the preceding two years, so far as price and production are concerned; its conduct during the last half will depend largely upon the maintenance of the present volume of demand and at the same time the curbing of speculative excess.

Spring wage agreements in the building trades will probably result in no marked increase in the general cost of construction labor. Building materials prices are below those in effect at this time last year.

	New York	Atlanta	Dallas	Chicago	Minneapolis	Denver	San Francisco	Seattle	Montreal
Steel Products									
Structural shapes, 100 lb.	$3.34	$3.40	$4.15	$3.10	$3.35	$3.07½	$3.30	3.35	$3.75
Structural rivets, 100 lb.	4.50	3.50	4.75	3.50	3.75	4.65	5.00	3.75	5.50
Reinforcing bars, ¾ in. up, 100 lb.	3.24	3.30	3.38	3.00	3.25	3.77½	3.10	3.25	2.30
Steel pipe, black, 2½ to 6 in. lap, discount	48%	53%	53.6%	51%	54.25%	36%	39.2@51%	45%	59.49
Cast-iron pipe, 6 in. and over, ton	50.60@52.60	45.25	54.00	49.20@50.20	53.00	64.00	52.00	55.00	55.00
Concreting Material									
Cement without bags, bbl.	2.50	2.35	2.05	2.10	2.32	2.84	2.31	2.65	1.80
Gravel, ¾ in., cu.yd.	1.75	1.90	2.38	2.00@2.20	1.65	1.90	1.80	1.50	1.25
Sand, cu.yd.	1.00	60	2.00	2.25	1.25	1.00	1.40	1.50	1.25
Crushed stone, ¾ in., cu.yd.	1.85	2.50	2.83	2.00@2.20	1.75	2.50	1.70	3.00	1.50
Miscellaneous									
Pine, 3x12 to 12x12, 20 ft. and under, M.ft.	62.00	34.00	56.00	39.50	37.75	34.75	27.00	25.00	65.00
Lime, finishing, hydrated, ton	18.20	22.50	20.00	20.00	25.50	24.00	22.00	24.00	21.00
Lime, common, lump, per bbl.	2.25@2.75	1.50	1.85	2.25	1.35	2.70	1.60	2.80	10.00
Common brick, delivered, 1,000	20.40	10.50	11.10	12.00	13.50	12.00	15.00	15.00	+20.25
Hollow building tile, 4x12x12, per block	Not used	.0977	.10	.075	.....	075	.....	.10	.12
Hollow partition tile 4x12x12, per block	.1112	.0977	.10	.075	.07	075	.108	.10	.10
Linseed oil, raw, 5 bbl. lots, gal.	.83¼	.90¾	1.13	.85	.96¾	1.06	—1.00	1.12	1.12
Common Labor									
Common labor, union, hour	.62½@.75	.30	.....	87½	.....	.50@.55	.55	62½	.....
Common labor, non-union, hour	.....	.25	.30@.50	82½	.45@.55	.35@.50	50	.50	.25@.30

Explanation of Prices—Prices are to contractors in carload lots unless other quantities are specified. Increases or decreases from previous quotations are indicated by + or — signs. For steel pipe, the prevailing discount from list price is given; 45-5% means a discount of 45 and 5 per cent.

New York quotations delivered, except sand, gravel and crushed stone, alongside dock; common lump lime, in 280-lb. bbl. net and hydrated lime, f.o.b. cars; tile "on trucks"; linseed oil and cast-iron pipe f.o.b.

Labor—Concrete laborers' rate, 93¾c.; building laborers, 75c.; excavating laborers, 62½c. per hr.

Chicago quotes hydrated lime in 50-lb. bags; common lump lime, per 180-lb. net. Lumber, sand, gravel and stone delivered on job; price of fir is quoted instead of pine.

Minneapolis quotes on fir instead of pine. Brick, sand and hollow tile delivered. Cement on cars. Gravel and crushed stone quoted at pit. We quote on brown lime per 180-lb. net; white is $1.70 for Kelly Island and $1.60 for Sheboygan. Common labor not organized.

THIS limited price list is published weekly for the purpose of giving current prices on the principal construction materials, and of noting important price changes on the less important materials. Moreover, only the chief cities are quoted.

Valuable suggestions on costs of work can be had by noting actual biddings as reported in our Construction News section.

The first issue of each month carries complete quotations for all construction materials and for the important cities. The last complete list will be found in the issue of March 4, the next on April 1.

Denver quotes on fir instead of pine. Cement "on tracks"; gravel and sand at pit; stone on cars; lime, brick, hollow tile and lumber on job. Tile price is at warehouse. Linseed oil, delivered in wooden bbl. Common lump lime per 180-lb. net.

Atlanta quotes sand, stone and gravel per ton instead of cu.yd. Common lump lime per 180-lb. net.

Dallas quotes lime per 180-lb. bbl. Steel, cement, cast-iron pipe and crushed stone f.o.b. cars, other materials delivered.

San Francisco quotes on Heath tile, size 5½ x 8 x 11½. Prices are all f.o.b. warehouses except C. I. pipe, which is mill price plus freight to railway depot at any terminal. Common lump lime per 180-lb. net. Lumber prices are to dealers in yards at San Francisco, for No. 1 fir, common.

Seattle quotes on Douglas fir (delivered) instead of pine. Lump finishing lime per 180-lb. net. Brick and hollow building tile delivered. Hydrated lime in paper sacks. Sand and gravel at bunkers.

Montreal quotes on pine lumber. Sand, stone, gravel and lump lime per ton. Stone and tile are delivered; sand, gravel, lime and cement on siding; brick f.o.b. plant; steel and pipe at warehouse. Hollow tile per ft. Cement price is in Canadian funds (the Canadian dollar stands at 99.65). Bag charge is 80c. per bbl. Discount of 10c. per bbl. for payment within 20 days from date of shipment. Steel pipe per 100 ft. net; 3½-in., $59.49.

Business Briefs

Call money quoted at 4¼@5 per cent, Mar. 23; year ago, 3½ per cent.

Time loans: sixty-ninety days, 4½@4¾; four-six months, 4½@4¾ per cent.

Commercial paper: best names, 4¼@4½ per cent; other names, 4¾ per cent.

On March 1, 1926

E. N.-R. Construction Cost Index Number 207.65

E. N.-R. Construction Volume Index Number 187

For Explanation and Details of Indexes Since 1913
See the First Issue of Every Month

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Apartment, Coral Gables, Fla., Urmey Arms, Inc. had plans prepared, $12,500,000.

Department Store, New York, N. Y., Bloomingdale Bros. having preliminary plans prepared, $7,000,000.

Freight house, Cambridge, Mass., Boston & Maine R.R. plans freight house and transfer system, $5,000,000.

Auditorium and office, Newark, N. J., Arena Amusement Co., Inc. having plans prepared, $4,000,000.

Dredging, West Palm Beach, Fla., Palm Beach Co. plans to deepen Lake Worth Inlet, $3,250,000.

Irrigation project, Dilley, Tex., Frio Co. Irrigation Dist. making surveys, $3,000,000.

Cathedral, Indianapolis, Ind., Cathedral, A. A. Scottish Rite Masons having plans prepared, $2,500,000.

Highway, Massachusetts, State Highway Dept. plans highway from Lynn to Braintree, $2,000,000.

Power plant, Willows, Calif., Glenn-Colusa Irrigation Dist. making plans, $2,000,000.

Hospital, Bedford, Mass., U. S. Veterans Bureau having surveys made, $1,500,000.

High Schools, New Haven, Conn., Bd. Educ. plans 2 Junior High Schools, $1,500,000.

Theatre and store, Baltimore, Md., Stanley-Crandall Co., plans building, $1,500,000.

Paving, Kansas City, Mo., city plans reconstructing and paving street, $1,400,000.

Power house, Lincoln, Neb., Lincoln Public Service Co. plans extensions, $1,350,000.

Viaduct, Kansas City, Mo., City and Kansas City Terminal Ry. Co. making plans, $1,200,000.

Bank, Baltimore, Md., Federal Reserve Bank of Richmond plans building, $1,000,000.

Bids Wanted

Apartment Hotel, Chicago, Ill., H. Zook having plans prepared and takes bids in April or May, $3,500,000.

Contracts

Power plant, Union, Pa., West End Power Co. to Sanderson & Porter, N. Y. C., $6,000,000.

Apartment, Hartford, Conn., G. W. Morris to E. Morris, $1,500,000.

Warehouse, Pittsburgh, Pa., A Kahn let general contracts to S. M. Siessel Co., $1,000,000.

College, Philadelphia, Pa., St. Joseph College, to J. McShane, $1,000,000.

Classified Index of Bids Wanted

Waterworks

Bids close — *See Eng. News-Record*

Mar. 26 East Paterson, N. J. .....Feb. 18
Mar. 26 Preston, Md. .....Mar. 4
Mar. 26 Wash., D. C. .....Mar. 4
Mar. 26 Wash., D. C. .....Mar. 11
Mar. 26 Marshfield, Wis. .....Mar. 18
Mar. 29 Waite Park, Minn. .....Mar. 11
Mar. 29 Mankato, Minn. .....Mar. 18
Mar. 29 Oneida Castle (mail Oneida), N. Y. .....Mar. 18
Mar. 29 New York City, N. Y. ...Mar. 25
Mar. 29 Long Island City, N. Y. ...Mar. 25
Mar. 30 Tampa, Fla. .....Mar. 11
Mar. 30 Long Island City, N. Y. ...Mar. 25
Mar. 30 Morehead City, N. C. ....Mar. 25
Mar. 31 Warsaw, Ill. .....Mar. 4
Mar. 31 Berea, O. .....Mar. 18
Mar. 31 Decatur, Ill. .....Mar. 11
Mar. 31 Baltimore, Md. .....Mar. 25
Mar. 31 Cleveland, O. .....Mar. 25
Mar. 31 Milwaukee, Wis. .....Mar. 25
Apr. 3 Arlington, N. J. .....Mar. 25
Adv. Mar. 25.
Apr. 5 Claysville, Pa. .....Mar. 18
Apr. 5 Athens, N. Y. .....Mar. 18
Adv. Mar. 18 and 25.
Apr. 5 San Andreas, Calif. .....Mar. 25
Apr. 5 Norwalk, Conn. .....Mar. 25
Adv. Mar. 25.
Apr. 5 Biloxi, Mass. .....Mar. 25
Apr. 6 St. Louis, Mo. .....Mar. 25
Apr. 6 Monroe, N. C. .....Mar. 25
Apr. 6 Belle River, Ont. .....Mar. 25
Apr. 6 Staunton, Ill. .....Mar. 25
Apr. 12 New Britain, Conn. .....Mar. 18
Adv. Mar. 18 and 25.
Apr. 15 Salisbury, Md. .....Mar. 25
Adv. Mar. 25.
Apr. 16 Mackinaw, Mich. .....Mar. 25
Apr. 30 New Market, Va. .....Mar. 25

Sewers

Mar. 26 New York City, N. Y. ...Mar. 25
Mar. 30 Bridgeton, N. J. .....Mar. 25
Mar. 31 Phila., Pa. .....Mar. 18
Mar. 31 Cleveland, O. .....Mar. 25
Apr. 1 Akron, O. .....Mar. 25
Apr. 2 Kissimmee, Fla. .....Mar. 18
Adv. Mar. 18 and 25.
Apr. 2 Pontiac, Mich. .....Mar. 25
Adv. Mar. 25.
Apr. 2 Wauwatosa, Wis. .....Mar. 25
Apr. 3 Ashtabula, O. .....Mar. 18
Apr. 5 Coatesville, Pa. .....Mar. 25
Adv. Mar. 11 and 25.
Apr. 5 San Fernando, Calif. .....Mar. 25
Apr. 6 St. George, N. Y. .....Mar. 25
Apr. 7 Rye, N. Y. .....Mar. 11
Apr. 7 San Francisco, Calif. .....Mar. 25
Apr. 8 Bromley, Ky. .....Mar. 18
Adv. Mar. 18 and 25.

Bids close — *See Eng. News-Record*

Apr. 12 Buffalo, N. Y. .....Mar. 18
Adv. Mar. 18 and 25.
Apr. 21 Antigo, Wis. .....Mar. 25

Waste Disposal

Apr. 7 Los Angeles, Calif. .....Mar. 25

Bridges

Mar. 26 Dayton, O. .....Mar. 18
Mar. 29 San Antonio, Tex. .....Mar. 11
Mar. 29 Camden, N. J. .....Mar. 11
Mar. 30 Tampa, Fla. .....Feb. 25
Mar. 30 Louisiana .....Feb. 25
Mar. 30 Poughkeepsie, N. Y. .....Mar. 4
Adv. Mar. 4 to 25.
Mar. 30 Louisiana .....Mar. 4
Mar. 30 North Carolina .....Mar. 18
Mar. 31 Illinois .....Mar. 18
Mar. 31 Powell, Wyo. .....Mar. 25
Mar. 31 Maquoketa, Ia. .....Mar. 25
Apr. 1 Jacksonville, Fla. .....Mar. 25
Adv. Mar. 25.
Apr. 2 Georgia .....Mar. 18
Apr. 2 Logan, Ia. .....Mar. 25
Apr. 2 Osceola, Ia. .....Mar. 25
Apr. 3 Toronto, Ont. .....Mar. 25
Apr. 5 San Pablo, Calif. .....Mar. 18
Apr. 5 New Jersey .....Mar. 18
Adv. Mar. 18 and 25.
Apr. 5 Indianapolis, Ind. .....Mar. 25
Apr. 6 Gulfport, Miss. .....Mar. 18
Apr. 6 Jones, La. .....Mar. 4
Apr. 6 St. Louis, Mo. .....Mar. 11
Apr. 10 Johnstown, Pa. .....Mar. 25
Apr. 12 Indianapolis, Ind. .....Mar. 25
Apr. 14 Mississippi .....Mar. 25
Apr. 16 Cincinnati, O. .....Mar. 25
Apr. 22 North Dakota .....Mar. 18
Adv. Mar. 18 and 25.

Dams

Apr. 6 New Brunswick, N. J. .....Mar. 18
Adv. Mar. 18 and 25.
Apr. 16 Livonia, N. Y. .....Mar. 25
Adv. Mar. 25.

Railways

Apr. 3 Missouri .....Mar. 25

Excavation, Drainage, Irrigation, Levees, River and Harbor

Mar. 31 Darlington, S. C. .....Mar. 25
Apr. 2 Woodland, Calif. .....Mar. 25
Apr. 5 Peru, Ind. .....Mar. 4
Apr. 8 New York City, N. Y. .....Mar. 11
Adv. Mar. 11 to 25.
Apr. 14 Bradenton, Fla. .....Mar. 25
Adv. Mar. 25.
Apr. 15 Albany, N. Y. .....Mar. 18
Adv. Mar. 18 and 25.

Streets and Roads

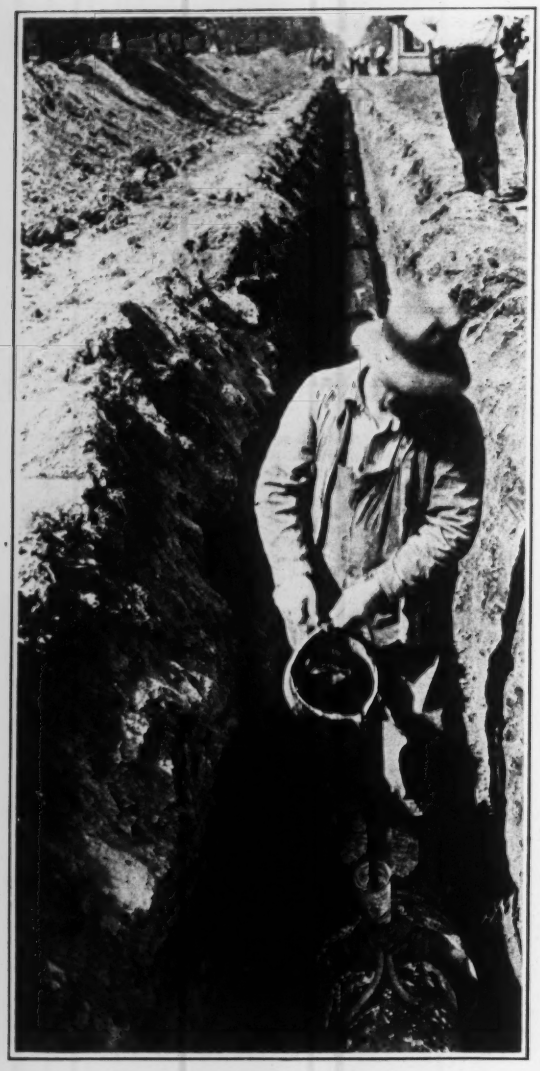
Bids close — *See Eng. News-Record*

Mar. 26 New York City, N. Y. ....Mar. 25
Mar. 27 Lewisville, O. .....Mar. 25
Mar. 29 Oskaloosa, Kan. .....Mar. 4
Mar. 29 Los Angeles, Calif. .....Mar. 18
Mar. 29 Arizona .....Mar. 18
Mar. 29 Cedar Rapids, Ia. .....Mar. 18
Mar. 29 Milan, Mo. .....Mar. 18
Mar. 29 San Diego, Calif. .....Mar. 18
Mar. 29 Dayton, O. .....Mar. 25
Mar. 30 Ottawa, Kan. .....Mar. 4
Mar. 30 Washington .....Mar. 18
Mar. 30 St. Louis, Mo. .....Mar. 18
Mar. 30 North Carolina .....Mar. 18
Mar. 30 North Dakota .....Mar. 18
Mar. 30 Maryland .....Mar. 18
Mar. 30 New Orleans, La. .....Mar. 25
Mar. 30 Trenton, N. J. .....Mar. 25
Adv. Mar. 25.
Mar. 30 Michigan .....Mar. 25
Mar. 30 Connecticut .....Mar. 25
Mar. 30 Waukesha, Wis. .....Mar. 25
Mar. 30 St. George, N. Y. .....Mar. 25
Mar. 30 Tampa, Fla. .....Mar. 25
Mar. 30 Chicago, Ill. .....Mar. 25
Mar. 30 Rockwell, Ia. .....Mar. 25
Mar. 30 Arkansas .....Mar. 25
Mar. 30 Anamosa, Ia. .....Mar. 25
Mar. 30 St. Paul, Minn. .....Mar. 25
Mar. 31 Erie, Kan. .....Mar. 4
Mar. 31 North Dakota .....Mar. 18
Mar. 31 New Jersey .....Mar. 18
Adv. Mar. 18 and 25.
Mar. 31 Illinois .....Mar. 18
Mar. 31 Knoxville, Tenn. .....Mar. 18
Mar. 31 Burlington, Wis. .....Mar. 18
Mar. 31 Tabor, N. C. .....Mar. 18
Mar. 31 North Dakota .....Mar. 18
Mar. 31 Unionville, Mo. .....Mar. 18
Mar. 31 Wyoming .....Mar. 25
Mar. 31 Pittsburgh, Pa. .....Mar. 25
Mar. 31 Johnstown, Pa. .....Mar. 25
Mar. 31 Michigan .....Mar. 25
Mar. 31 New Orleans, La. .....Mar. 25
Mar. 31 Maquoketa, Ia. .....Mar. 25
Mar. 31 Baltimore, Md. .....Mar. 25
Apr. 1 Oakhurst, N. J. .....Mar. 18
Adv. Mar. 18 and 25.
Apr. 1 North Dakota .....Mar. 18
Apr. 1 Dubuque, Ia. .....Mar. 25
Apr. 1 Wisconsin .....Mar. 25
Apr. 2 Iola, Kan. .....Mar. 11
Apr. 2 North Dakota .....Mar. 18
Apr. 2 Georgia .....Mar. 18
Apr. 2 Cincinnati, O. .....Mar. 25
Apr. 2 Michigan .....Mar. 25
Apr. 2 Pontiac, Mich. .....Mar. 25
Apr. 2 Logan, Ia. .....Mar. 25
Apr. 2 San Antonio, Tex. .....Mar. 25
Apr. 2 Wauwatosa, Wis. .....Mar. 25
Apr. 3 Toronto, Ont. .....Mar. 25
Apr. 3 Wenatchee, Wash. .....Mar. 25

See proposal advertising on page 128, Advertising Section

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office



Pouring LEADITE Joints on line of 12-in. c. i. bell and spigot water main.

Durable Pipe Joints

The wise man builds for the future. Supply lines and distribution systems are usually permanent installations.

Durability and quality should be the first consideration of the product used for making joints in cast iron bell and spigot water mains.

LEADITE is a good product and the leader in its field, because it has gained and retained the recognition, support and patronage of such a great number of water works men for so many years.

LEADITE has been tested and used for over 30 years, under all pressures and conditions, by water works, railroads, mines, contractors and industrial plants thruout the country.

Thousands of miles of pipe have been laid with LEADITE joints, on all sizes from 4 in. to 60 in. in diameter.

LEADITE takes the drudgery out of pipe laying; saves time, money and labor; makes flexible joints; makes joints which will stand vibration under tracks, over and under bridges; makes joints which resist electrolysis; eliminates large bell holes; reduces trench pumping and other work incidental to caulking—LEADITE requires no caulking.

Every water works man abreast of the times knows about LEADITE. LEADITE is an interesting and familiar topic at water works conventions and wherever water works men congregate.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%.

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids close		See Eng. News-Record
Apr. 3	Idaho	Mar. 25
Apr. 5	Coatesville, Pa. Adv. Mar. 11 and 25.	Mar. 11
Apr. 5	Martinez, Calif.	Mar. 18
Apr. 5	San Andreas, Calif.	Mar. 25
Apr. 5	San Mateo, Calif.	Mar. 25
Apr. 5	Arizona	Mar. 25
Apr. 5	Toccoa, Ga.	Mar. 25
Apr. 5	St. Augustine, Fla.	Mar. 25
Apr. 5	Los Angeles, Calif.	Mar. 25
Apr. 5	Elizabeth City, N. C. Adv. Mar. 18 and 25.	Mar. 25
Apr. 6	Auburn, Ind.	Mar. 18
Apr. 6	Newton, Kan.	Mar. 18
Apr. 6	Winona, Miss.	Mar. 11
Apr. 6	Louisiana	Mar. 11
Apr. 6	St. Louis, Mo.	Mar. 18
Apr. 6	Pennsylvania Adv. Mar. 18 and 25.	Mar. 18
Apr. 6	North Dakota	Mar. 18
Apr. 6	Indiana	Mar. 18
Apr. 6	Vincennes, Ind.	Mar. 18
Apr. 6	Gainesville, Fla.	Mar. 25
Apr. 6	Chico, Calif.	Mar. 25
Apr. 6	New Market, N. J.	Mar. 25
Apr. 6	Elizabeth City, N. C. Adv. Mar. 25.	Mar. 25
Apr. 6	Palmetto, Fla.	Mar. 25
Apr. 6	Ventura, Calif.	Mar. 25
Apr. 6	Ely, Minn.	Mar. 25
Apr. 6	Washington	Mar. 25
Apr. 6	Maryland Adv. Mar. 25.	Mar. 25
Apr. 7	Pennsylvania Adv. Mar. 18 and 25.	Mar. 18
Apr. 7	New Jersey Adv. Mar. 25.	Mar. 25
Apr. 7	Grand Rapids, Minn.	Mar. 25
Apr. 7	Holland, Mich.	Mar. 25
Apr. 7	Fayette, Miss.	Mar. 25
Apr. 7	North Dakota	Mar. 25
Apr. 8	Winfield, Kan.	Mar. 11
Apr. 8	North Dakota	Mar. 25
Apr. 9	North Dakota	Mar. 18
Apr. 12	Kentucky	Mar. 11
Apr. 12	Akron, O.	Mar. 11
Apr. 12	Kentucky	Mar. 18
Apr. 12	Keokuk, Ia.	Mar. 25
Apr. 12	California	Mar. 25
Apr. 13	Louisiana	Mar. 18
Apr. 13	St. Louis, Mo.	Mar. 25
Apr. 13	North Dakota	Mar. 25
Apr. 14	North Dakota	Mar. 25
Apr. 14	Florida	Mar. 25
Apr. 14	Delaware Adv. Mar. 25.	Mar. 25
Apr. 15	Birmingham, Ala.	Mar. 18
Apr. 15	Birmingham, Ala.	Mar. 11
Apr. 15	Tarrant City, Ala.	Mar. 18
Apr. 15	North Dakota	Mar. 25
Apr. 15	Louisiana	Mar. 25
Apr. 16	Oswego, Kan.	Mar. 25
Apr. 20	Birmingham, Ala.	Mar. 11
Apr. 20	Lyons, Kan.	Mar. 25
May 1	Birmingham, Ala.	Mar. 25

Buildings—Commercial

Bids close		See Eng. News-Record
Mar. 26	Charleroi, Pa.	Mar. 18
Mar. 29	Chicago, Ill.	Mar. 11
Mar. 29	Phila., Pa.	Mar. 25
Mar. 29	Detroit, Mich.	Mar. 25
Mar. 29	Catonsville (Br. Baltimore), Md.	Mar. 25
Mar. 30	Allentown, Pa.	Mar. 18
Mar. 30	Canton, O.	Mar. 25
Mar. 31	Mobile, Ala.	Mar. 11
Mar. 31	Phila., Pa.	Mar. 25
Apr. 1	Greenville, Miss.	Mar. 18
Apr. 1	Gulfport, Miss.	Mar. 4
Apr. 1	Lakewood (br. Cleveland), O.	Feb. 11
Apr. 1	Moline, Ill.	Jan. 14
Apr. 1	Youngstown, O.	Dec. 31
Apr. 1	Youngstown, O.	Mar. 25
Apr. 5	Mansfield, O.	Mar. 25
Apr. 6	Fresno, Calif.	Mar. 18
Apr. 9	Urbana, Ill.	Mar. 25

Buildings—Industrial

Bids close		See Eng. News-Record
Mar. 29	Milwaukee, Wis.	Mar. 25
Mar. 30	Bristol, R. I.	Mar. 25
Mar. 31	Muskegon, Mich.	Mar. 25
Apr. 1	New York City, N. Y.	Mar. 25
Apr. 8	Rome, N. Y. Adv. Mar. 18 and 25.	Mar. 18

Buildings—Educational, Religious

Bids close		See Eng. News-Record
Mar. 26	Nutley, N. J. (br. Newark)	Mar. 11
Mar. 26	Cliffside Park (mail Cliffside), N. J.	Mar. 11
Mar. 26	Greensburg, Ind	Mar. 18
Mar. 26	Lincoln, Neb.	Mar. 18
Mar. 29	Fowler, Ind.	Mar. 11
Mar. 29	Highland Park, Mich.	Mar. 25
Mar. 29	Middleboro, Mass.	Mar. 25
Mar. 30	Aberdeen, S. D.	Mar. 18
Mar. 30	Corning, N. Y.	Mar. 18
Mar. 30	Ashtabula, O.	Mar. 25
Mar. 31	Los Angeles, Calif.	Mar. 25
Mar. 31	Tebret, Sask.	Mar. 25
Apr. 1	Duluth, Minn.	Mar. 18
Apr. 1	Kingsford Heights, Mich.	Mar. 25
Apr. 1	Baltimore, Md.	Mar. 25
Apr. 5	Whittier, Calif.	Mar. 25
Apr. 5	Evansville, Ind.	Mar. 25
Apr. 6	Hazelton, Pa.	Mar. 18
Apr. 6	Churubusco, Ind.	Mar. 25
Apr. 13	Jacksonville, Fla.	Mar. 25
Apr. 14	Fordson (Detroit P. O.), Mich.	Mar. 4
Apr. 15	Tuscaloosa, Ala.	Mar. 25
Apr. 15	Lawrence, Kan.	Mar. 25

Federal Government Work

Bids close		See Eng. News-Record
Mar. 26	Remodeling — Torrington, Conn.	Mar. 11
Mar. 27	Remodeling—Fort Wayne, Ind.	Mar. 4
Apr. 27	Recreation, etc.—Philadelphia	Mar. 25
Mar. 29	Gates—Denver, Colo.	Mar. 4
Mar. 29	Vestibule—Lorain, O.	Mar. 11
Mar. 30	Cement—Milwaukee, Wis.	Mar. 25
Mar. 31	Remodeling—Lynn, Mass.	Mar. 11
Mar. 31	Barges—St. Louis, Mo. Adv. Mar. 11 and 25.	Mar. 11
Mar. 31	Foundation Pier—Milwaukee, Wis.	Mar. 18
Mar. 31	Sewer—San Diego, Calif.	Mar. 25
Apr. 1	Cruiser, etc.—Wash., D. C.	Feb. 25
Apr. 1	Remodeling—McKeesport, Pa.	Mar. 18
Apr. 2	Driveway — Sheboygan, Wis.	Mar. 18
Apr. 6	Earthwork—Iowa Adv. Mar. 18 and 25.	Mar. 18
Apr. 6	Addition—Abilene, Tex.	Mar. 25
Apr. 12	Dredging — Hartford, Conn. Adv. Mar. 11 to 25.	Mar. 11
Apr. 12	Levee—Memphis, Tenn.	Mar. 25
Apr. 12	Remodeling—Santa Barbara, Calif.	Mar. 25
Apr. 13	Remodeling—Chester, Pa.	Mar. 25
Apr. 15	Earthwork—New Orleans, La.	Mar. 25
Apr. 16	Dredging—Galveston, Tex. Adv. Mar. 18 and 25.	Mar. 18
Apr. 16	Quarantine Station—Mobile, Ala.	Mar. 25
Apr. 20	Turbine, etc.—Nebraska and Wyoming	Mar 18
Apr. 21	Hospital—Wash., D. C. Adv. Mar. 25.	Mar. 25
Apr. 22	Granite—Wash., D. C. Adv. Mar. 25.	Mar. 25
May 5	Dredging—South Boston (sta. Boston), Mass.	Mar. 25

Unclassified

Bids close		See Eng. News-Record
Mar. 26	Wall—Cleveland, O.	Mar. 25
Mar. 29	Lighting System—Elmhurst, Ill.	Mar. 11
Mar. 29	Swimming Pool—Lawrence, Mass.	Mar. 25
Apr. 1	Stable, etc.—Brooklyn, N. Y.	Mar. 25
Apr. 5	Lighting System—Biloxi, Miss.	Mar. 25
Apr. 5	Signal Tower, etc.—New York	Mar. 25
Apr. 7	Sanitary Work, etc.—Ogdensburg, N. Y. Adv. Mar. 18 and 25.	Mar. 18
Apr. 12	Power Plant Equipment—Richmond, Ind.	Mar. 25
Apr. 20	Unloader—New Orleans, La.	Mar. 25

Materials

Bids close		See Eng. News-Record
Mar. 27	Pipe, etc.—Toronto, Ont.	Mar. 18
Mar. 27	Fibre Conduit — Chicago, Ill.	Mar. 25
Mar. 29	Supply Pipe—Vancouver, B. C.	Mar. 25
Mar. 30	Paving Brick—Chicago, Ill.	Mar. 25
Mar. 30	Creosoted Fir and Oak—Chicago, Ill.	Mar. 25
Mar. 30	Limestone Dust, etc. — Bridgeton, N. J.	Mar. 25
Mar. 31	Tar and Asphalt—Clayton, Mo.	Mar. 25
Apr. 1	Portland Cement — Boston, Mass.	Mar. 25
Apr. 2	Timber Piles—Albany, N. Y. Adv. Mar. 18 and 25.	Mar. 18
Apr. 2	Gravel, Cement, etc. — Greenville, Miss.	Mar. 25
Apr. 2	Tar—Cincinnati, O.	Mar. 25
Apr. 6	Lumber—Jones, La.	Mar. 4
Apr. 6	Cement, etc.—Collins, Miss.	Mar. 25
Apr. 7	Cement, etc.—Springfield, Mass.	Mar. 25
Apr. 30	Road Oil—Nashville, Tenn.	Mar. 25

News of New Work

Waterworks

Proposed Work

Mass., Andover—Plans extending mains in various streets. $23,000 appropriated.

Mass., Newton (Ind. br. Boston) — City, Bd. Aldermen, plans 20 in. main on Commonwealth Ave. $52,640 appropriated.

Miss., Biloxi—See "Streets and Roads."

Ind., Elkhart — Making surveys and plans improving waterworks. J. R. Stephenson, waterworks supt. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., consult. engrs.

Ill., Staunton — Voted $50,000 bonds, waterworks improvements, incl. 47,627 ft. 2- to 12-in. c.i mains, 44 fire hydrants, 65 gate valves and boxes, etc. Total $90,000. W. A. Fuller Co., 1917 Ry. Exch. Bldg., St. Louis, Mo., engrs.

Wis., Wausau—Making plans 3 m.g. per day capacity filtration plant. W. G. Kirchaffer, Dean Bldg., Madison, engr.

Ia., Dubuque — Making plans improving waterworks and light improvements. $85,000. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., engrs.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Kan., Pittsburg—Election Apr. 6, $15,000 bonds, waterworks.

Mo., Marshall—Making preliminary plans water tower, tank, and electric pumping equipment, etc. $20,000.

Mo., Perryville — Making revised plans waterworks. $100,000 bond election in April for same. Burns & McDonnell Eng. Co., 401 Interstate Bldg., Kansas City, engrs.

Mo., Savannah—Defeated $60,000 bonds, impounding reservoir and filtration plant, etc. J. W. Shikles & Co., 708 New York Life Bldg., Kansas City, engrs. Noted Mar. 4.

Tex., Marshall—Election Apr. 17, $50,000 bonds, waterworks improvements. Address P. M. Herndon, city secy.

Okla., Chandler—Plans election $100,000 bonds, improving water supply from wells also main extensions, etc. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., consult. engrs.

Okla., Clinton—Bd. City Comrs. retained Benham Eng. Co., consult. engrs., Gumbel Bldg., Kansas City, Mo., to make surveys and investigations new water supply, etc. $500,000-$600,000. Noted Mar. 18.

Okla., Okmulgee—Soon takes bids storage dam and 5 mi. pipe line, etc. W. C. Hallock, Room 919, Monadnock Bldg., c/o L. F. Harza, engr. Noted Jan. 14.

Okla., Sparks—Making preliminary plans new waterworks and electric transmission line connecting with high line at Meeker. $25,000. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs.

Okla., Sperry—Bd. City Trustees retained Benham Eng. Co., consult. engrs., Gumbel Bldg., Kansas City, Mo., to prepare plans waterworks and sanitary sewer improvements. Noted Jan. 7.

N. M., Roswell—Election Apr. 6, $150,000 bonds, improving waterworks. Burns &

See classified index on bids wanted on page 165

This Solves a "Rush" Problem

Every Architect, Engineer and Contractor Must Sometimes Face

"For roads, streets, footings," says an editorial in *Engineering News-Record,* February 18, p. 266, in commenting on quick-hardening concrete made in *3 days* with standard *Universal* cement, "the *careful* builder can undoubtedly take advantage of the new methods to accelerate his construction operations."

Rush work often is necessary. In such cases you don't want to wait several weeks for concrete to reach the required strength. You do not need to. In *3 days* you can obtain quick-hardening, *strong* concrete with standard *Universal* cement, the same quality *Universal* you have always used, by applying simple methods that not only give you the required strength in *3 days* but also produce concrete which is much better and much stronger forever after.

Brief description of the simple methods for producing this time-saving concrete with standard *Universal* cement furnished on request to

Universal Portland Cement Co.

Chicago—Pittsburgh—Minneapolis—Duluth—Cleveland—New York

Concrete For Permanence

Waterworks (Continued)

McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs. Noted Mar. 5, 1925.

Wash., Everett—Election in May, $260,000 bonds, purchasing Flowing Lake Water Project, incl. 480 m.g. reservoir, outlet dam and 3 mi. pipe line. Noted Nov. 12.

Wash., Shelton—Making plans 750 g.p.m. pump, 50,000 gal. tank or permanent concrete reservoir. $48,000. E. C. Manning, Shelton, engr.

Calif., Burbank—Made plans 350,000 gal. reservoir, 48 ft. wide, 90 ft. long, and 14 ft. deep. T. R. Mini, city clk.

Calif., Healdsburg — Plans to purchase 3,000 ft. 4 in. c.i. pipe, hydrants, valves and fittings. J. W. Hillhouse, city clk.

Calif., Riverside—Plans to purchase 10,000 ft. 6 in. c.i. pipe (to be placed in stock). W. A. Scott, water supt. Noted Mar. 4.

Calif., San Francisco — Making plans high pressure pipe line in Industrial section of "Butchertown." $65,000. M. M. O'Shaughnessy, city engr.

Calif., San Francisco — Making plans mains in new districts, $50,000; also plans to purchase 150 additional fire hydrants for various sections. M. M. O'Shaughnessy, city engr.

Calif., San Luis Obispo — San Luis Obispo Co. Water Works Dist. 2, plans election $35,000 bonds, constructing distributing system, pumps, etc.

Ont., Thamesford—City Council, c/o J. A. Clark, chn., making plans waterworks. $40,000. A. Redfern, 36 Toronto St., Toronto, engr. Noted Jan. 14.

Ont., Thamesford—Making plans c.i. distribution system, valves, hydrants, pumps, reservoir or tank, etc. $25,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Sask., Saskatoon — See "Streets and Roads."

B. C., Vancouver — W. McQueen, city clk., soon takes bids 10,000 ft. 6 in., 5,000 ft. 8 in. and 5,000 ft. 12 in. c.i. water pipe, one hundred 6 in., fifty 8 in. and fifty 12 in. valves. $25,000. C. Brackenridge, city engr.

Bids Desired

Conn., Norwalk—Apr. 5, by Dist. Comrs. 2nd Taxing Dist., City Hall, c.i. pipe, castings, valves, etc., for waterworks. N. S. Hill, Jr., 112 East 19th St., New York City, consult. engr.; adv. E. N.-R. Mar. 25. Noted Feb. 18.

N. Y., Long Island City—Mar. 29, by N. J. Hayes, comr., Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains, etc. in Utopia Parkway, 58th Lane, Maryland and 67th Rds., 65th Pl., 14th, Harmon, Olcott, 65th, 95th, 108th, Gardiner, 190th, 191st and 202nd Sts., Astoria, 47th, Crocheron and 45th Aves., here.

N. Y., Long Island City — Mar. 30, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains, etc. in Shore Acres Blvd., Beatrice Pl., 32nd, 81st, Van Zandt and 58th Aves., Dartmouth, Loubet, Pansy, 88th, 93rd, 96th, Redfield and 32nd Sts., here.

N. Y., New York — Mar. 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains, etc. in Central Park, Bway., 1st and 3rd Aves., Delancey, Essex, Grand and West 38th Sts.

N. J., Ship Bottom-Beach Arlington — Apr. 3, by E. Cranmer, boro clk., artesian well, pumping station, pumping machinery, or tank and tower, c.i. pipes, valves, etc. W. H. Boardman, 426 Walnut St., Phila., Pa., engr.; adv. E. N.-R. Mar. 25.

Md., Baltimore—Mar. 31, by Bd. Awards, excavating trenches in Western Dist. for Bureau Water Supply. V. B. Siems, City Hall, water engr.

Md., Salisbury — Apr. 15, by Water & Sewer Comn., laying mains, etc., Contr. 16. F. H. Dryden, ch. engr.; adv. E. N.-R. Mar. 25.

Va., New Market — Mar. 30, by G. A. Woods, mayor and Town Council, waterworks improvements, incl. 24,100 ft. 2- to 10-in. c.i. pipe, concrete dam, 60,000 lb. reinforcing, 367 cu.yd. excav., etc., also sewerage system improvements, incl. 22,900 ft. 3 and 8 in. c.i. pipe, 2 sewerage pumps, etc. Amer. Industries Eng. Co., 140 Cedar St., New York City, engrs. Carolina Eng. Co., 917 Johnson Bldg., Charlotte, N. C., associated engrs.

N. C., Monroe—Apr. 6, by V. Funderbuck, mayor and Bd. City Comrs., complete water purification plant with mixing basin, 13,000 lin.ft. 12 and 16 in. c.i. pipe, rein.-con. spillway dam, etc. G. H. Bishop, consult. engr. Carolina Eng. Co., 917 Johnston Bldg., Charlotte, engrs.

N. C., Morehead City—Mar. 30, by Morehead Bluffs, Inc., W. F. Blades, pres., 31,400 ft. 1½- to 8-in. mains, 60,000 gal. elevated tank, pump, etc. Benton & Benton, Wilson, engrs.

Ga., Toccoa—See "Streets and Roads."

Miss., Biloxi — Apr. 5, by Mayor and Comn. Council, 4,640 ft. 6 in. c.i. mains, etc., in Forest Ave. from West Hammond to Bay View Aves.

O., Cleveland — Mar. 31, by Bd. Comrs. Cuyahoga Co., mains in East 172nd St. and Wood Ave., Impvt. 569, to exceed $20,000; also in Lorain and Clague Rds., Impvt. 754, to exceed $40,000. F. Williams, Court House, engr.

Mich., Mackinaw — Apr. 16, by A. N. Buhler, village clk., 9,200 ft. 4- to 8-in. c.i. mains, two 8 in., six 6 in., nine 4 in., and two 3 in. valves, 50,000 gal. elevated steel tank on 85 x 100 ft. steel tower, etc. G. W. Clark, Muskegon, consult. engr.

Ill., Staunton — Apr. 6, at office City Clerk, waterworks improvements, incl. c.i. mains, fire hydrants, gate valves, etc., W. A. Fuller Co., Railway Exch. Bldg., St. Louis, Mo., consult. engrs.; adv. E. N.-R. Mar. 25. Noted Jan. 28.

Wis., Milwaukee — Mar. 31, by J. W. Nicholson, chf. buyer, Central Bd. Purchases, one 54 in., three 48 in., three 42 in., six 36 in., twelve 30 in., and two 20 in. gate valves.

Mo., St. Louis—Apr. 6, by Bd. Pub. Serv., 208 City Hall, constructing brick settings of four 460 hp. boilers, $15,000; also constructing and installing sheet steel breeching in boiler room, $6,000, both for Bissell Point Station. E. E. Wall, dir. This corrects report in Mar. 18 issue.

Ark., Little Rock — See "Contracts Awarded."

Calif., San Andreas — Apr. 5, by Calaveras Co., A. W. Poe, clk., 100,000 gal. rein.-con. tanks, 6,925 ft. double riveted slip joint steel pipe, 3,670 ft. 3 in. galvanized iron screw pipe, 1,950 ft. 6 in. double riveted slip joint steel pipe and 1 pump. Noted Nov. 26.

Ont., Belle River—Apr. 6, by M. Forget, village clk., 3 stage electric centrifugal pump, Tender H; filters and controllers, Tender J; chlorinator, Tender K. $20,000. A. W. Connor & Co., Metropolitan Bldg., Toronto, engrs.

Bids Received

Mass., Holyoke—Water Comrs., Mar. 19, 53,500 ft. 20 in. c.i. pipe for Ashley ponds line, from B. Nicholl & Co., 294 Madison Ave., New York City, $224,460. Noted Mar. 11.

Ill., Chicago—South Park Comrs., 57th St. and Cottage Grove Ave., 3,900 ft. 1 in. lead pipe and 44,000 ft. c.i. pipe, from T. J. Prendergast, 118 North La Salle St., $80,731. Noted Feb. 25.

Wis., Kenosha—City Comn., Mar. 15, 800 tons 6- to 12-in. c.i. pipe and fittings, from Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, Ala., $48.45 and $108.50 per ton respectively.

Wis., Milwaukee — Dept. Pub. Wks., R. Stoelting, comr., Mar. 11, 1 vertical triple expansion crank and flywheel pumping engine, 25 m.g. capacity, in Riverside Pumping Station, from Allis Chalmers Mfg. Co., National Ave., West Allis, $222,800. Noted Feb. 25.

Contracts Awarded

R. I., Pawtucket — Dept. Pub. Wks., Arnolds Mills Reservoir, Contr. 2, to J. J. McHale & Sons, 84 Ferris St., $415,566.

N. Y., Brooklyn—Park Bd., F. P. Gallatin, pres., Arsenal Bldg., Central Park, 5th Ave. and 46th St., New York City, vitr. and c.i. drains at Atlantic Ocean terminus of Ocean Parkway, here, to M. J. O'Hara, 557 3rd St., $21,575. Noted Mar. 18.

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Denton Dr., 57th Rd., Anna and 113th Pls., Carhart, Herrick, Lotus and Wilton Aves., Locust, 32nd, 33rd and 92nd Sts., here, to Grippo Contg. Co., 85 Webster Ave., $5,717. Noted Mar. 11.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains, transferring taps, rearranging connections and setting additional valves, etc. in Battery Park, Riverside Dr., River Rd., 5th, 9th, Payson, St. Nicholas, 7th and 12th Aves., Church, Dyckman and East Sts., etc., to Draganette Constr. Co., 1123 Clinton Ave., $43,435. Noted Mar. 18.

N. Y., Potsdam — Municipal Bd., C. E. Haywood, chn., four 2 m.g. per day rein.-con. mechanical filters, clear well, etc. for waterworks, to Shephard Constr. Serv., Inc., 423½ South Salina St., Syracuse, $80,000. Noted Mar. 11.

N. Y., St. George — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Bloomingdale Rd., Bronx and Johnson Pls., Burnside, Cedar, Geldner, Halpin and Hitchcock Aves., Atlantic, Brabant, and 3rd Sts., here, to Empire Contg. Co., 21 Park Row, New York City, $13,988. Noted Mar. 8.

Pa., Mount Union—Boro. Council, C. R. Gracey, secy., Municipal Bldg., constructing 350 ft. dam, on Carmichael Run, about 7 mi. from here, to Ambursen Constr. Co., Grand Central Terminal, New York City, N. Y. Engrs. est. $250,000. Noted Jan. 14.

Pa., Phila.—Phila. Suburban Water Co., Fox Bldg., replacing solid masonry dam, 1,000 ft. long, and 45 ft. high, intake, sluice gates and supply line to new filtration plant, to Ambursen Constr. Co., Grand Central Terminal, New York City, N. Y., about $200,000. Noted Feb. 18.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, Contr. 808, to E. T. Roberts, 2622 Columbia St., $695; Contr. 809, to S. Faith Co., Inc., 2427 Penn Ave., $1,446; and Contr. 810, to Dravo-Doyle Co., Schaff Bldg., $46,780. Grand total $48,921. Noted Mar. 11.

Mich., Detroit—Dept. Water Supply, 7.93 mi. 6- to 12-in. c.i. mains in various streets, Contr. 1926-1, and 6.64 mi. Contr. 1926-2, to J. W. Toyne, South Bend, Ind., $25,649 and $21,896 respectively; also 6.93 mi. 6- to 12-in. Contr. 1926-3, to R. D. Baker, 1631 Elmhurst Ave., $21,154. Grand total $68,699. Noted Mar. 18.

Ill., Park Ridge — North Side Waterworks improvements, incl. c.i. pipes, valves, etc., to C. M. Porter Co., 111 West Washington St., Chicago, $245,162.

Wis., Manitowoc—A. H. Zander, city clk., 6,000 ft. 12 in., Class "C" waterpipe, to J. B. Clow & Son, North Talman Ave. and West Lake St., Chicago, Ill., $48.90 per ton.

Minn., Minneapolis — F. S. Gram, city purch. agt., to H. Mueller Mfg. Co., Decatur, Ill., four thousand ¾ in. curb cocks at $1.90 each, two hundred 1 in., $2.20, one hundred ¾ in. inverted $1.40, one hundred 1 in. inverted $1.76, also four thousand ⅝ x ¾ in. corporation cocks $0.75, and ¾ x 1 in. $0.95. Noted Mar. 18.

Neb., Ohiowa—J. P. Moor, city clk., to Omaha Steel Co., 4802 Leavenworth St., Omaha, tank and tower $5,628; to McWayne Pipe Co., Chicago, Ill., c.i. pipe at $7,757, and 2 in. pipe $1,234; to Fremont Constr. Co., Fremont, hydrants and valves $1,167, pipe line labor $3,400; to E. C. Archibald, 111 South 25th St., Council Bluffs, Ia., well $1,450, pump $1,500, installing pump and motors $323; to Interstate Machinery & Supply Co., 1006 Douglas St., Omaha, $212. Grand total $22,671. Noted Jan. 28.

Mo., Marshfield — City Clerk complete waterworks and distribution system, to R. McSweeney, Kingsbarde Apartments, Springfield, $49,422. Noted Mar. 4.

Ark., Little Rock—Fourche River Land Co., 213½ West 2nd St., H. F. Buhler, pres., will install waterworks, incl. deep wells, 25,000 gal. tank on tower with engine and pump in keeping with capacity, 3 mi. 2 in. c.i. pipe and 1 mi. 4 in. pipe line, by day labor. Private plans.

Tex., St. Jo—Waterworks, incl. pumps, etc., to Douglas & Davenport, c/o Ward Bldg., Wichita Falls, approximately $34,000. Noted Mar. 11.

Wash., Seattle — Bd. Pub. Wks., foundations for steel standpipe at 38th Ave. S. W., and West Barton St., to J. L. Smith, 304 West 36th St., $15,525; and constructing above standpipe, to Puget Sound Mchy. Depot, 322 1st St., $27,785.

Ore., Bend—Approximately 8 mi. 12- to 16-in. electric arc-welded pipe, to Beall Pipe & Tank Corp., Columbia Blvd. and Denver Ave., Kenton Sta., Portland; trenching and backfilling, etc., to A. D. Kern, Portland.

Ore., Medford—For 159,000 ft. 20- to 24-in. electric arc-welded pipe, to Beall Pipe & Tank Corp., Columbia Blvd. and Denver Ave., Kenton Sta., Portland, trenching, backfilling, etc., to Swartlet Bros., Corvallis.

Calif., Alameda—Sprinkler system, pump, pipe lines, etc. for Municipal Golf Course, to S. Smith Co., 637 Mission St., San Francisco, $24,250. Noted Feb. 25.

B. C., Point Grey — Municipality, one thousand ¾ in., one hundred ¾ in., twenty-five 1 in., six 1½ in., and four 2 in. meters, to Gordon & Belyed, Ltd., 167 Alexander St., Vancouver, $15,407.

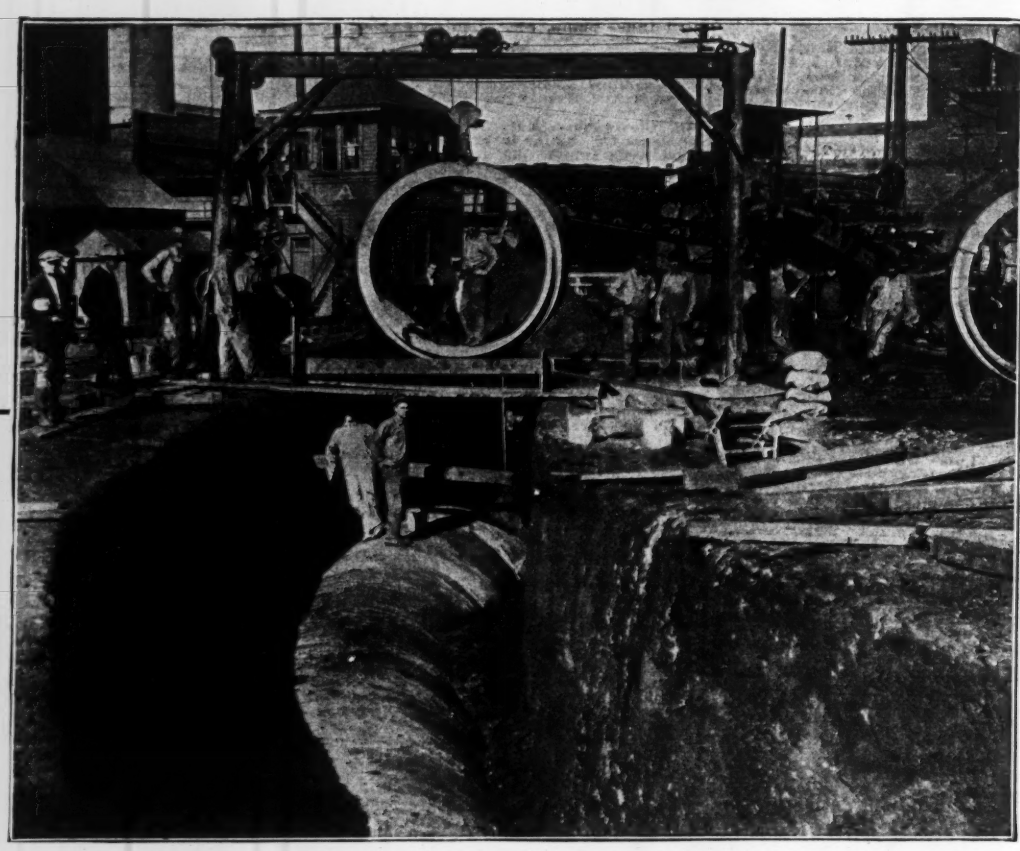
Sewers

Proposed Work

Mass., Boston—Metropolitan Dist. Comn., Ashburton Pl., plans sewers in various streets in Belmont. $75,000. J. R. Rablin, c/o owner, engr.

R. I., Woonsocket — Plans extending sewers in various streets. $150,000. Address City Engineer.

Ga., Toccoa—See "Streets and Roads."



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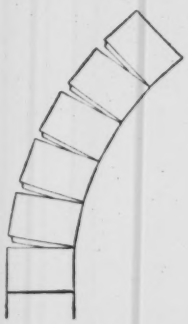

This simple diagram shows how easily a curved sewer may be built with ordinary units of INDEPENDENT Concrete Pipe.

NO other material is used so successfully for such a wide range of sewer requirements, or is laid so economically under difficult conditions, as INDEPENDENT Reinforced Concrete Pipe. Made in sizes ranging from 24 in. to 108 in., it meets every demand for sewer service—size, permanence, strength, capacity and economy.

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Contractors who are interested in PROFITABLE sewer construction, and engineers or public officials who want to build PERMANENT sewers on the most ECONOMICAL basis, are invited to send for estimates and full information. *Write, wire or phone.*

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INDEPENDENT
Reinforced Concrete Pipe

Sewers (Continued)

Miss., McComb—Mayor and Bd. Selectmen, retained H. A. Mentz, consult. engr., Hammond, La., to design addition to sewage disposal plant. $40,000.

O., Alliance—Bd. Control takes bids in spring sewer in Jackson, South Freedom, Johnson and Ely Sts. $37,625.

Ill., East St. Louis—Soon takes bids 86,000 ft. 8- to 54-in. vitr. clay, segmental block, brick and concrete sewers in Lansdowne Dist. $800,000. W. McK. Brown, City Hall, engr.

Wis., La Crosse — Made plans and soon takes bids 11,055 ft. 12 in. and 15 in. sewers, etc. in various streets. $40,000. C. C. Congdon, City Hall, engr.

Wis., Manitowoc—A. H. Zander, city clk., plans trunk sewers in various streets on north and south side of city. $125,000. F. Alter, City Hall, engr.

Ia., Boone—Plans sewage disposal plant with auxiliary equipment. $100,000. Currie Eng. Co., Webster City, engrs.

Ia., Winterset — Takes bids in April sewers and sewage treatment plant. $200,000. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., engrs. Noted Jan. 14.

Neb., Hastings—Election Apr. 6, $150,000 bonds, sewage plant, incl. Imhoff tanks, sludge beds, sprinkling filters, outfall sewer line, etc. Henningson Eng. Co., Natl. Bldg., Omaha, engrs.

Neb., Omaha — Making plans sewers in Dists. 952, 953 and 2826.

Tex., Conroe — Election Apr. 8, $55,000 bonds, sanitary sewerage system. Forsgard & Davis, Texas City, engrs.

Tex., Grapevine — Voted $30,000 bonds, complete sewerage system and disposal plant. F. J. Von Zuben, 611 Dan Waggoner Bldg., Ft. Worth, engr. Noted Mar. 11.

Tex., Mansfield — Voted $32,000 bonds, complete sewerage system. Municipal Eng. Co., 1107 Athletic Club Bldg., Dallas, engrs.

Okla., Oklahoma City—Takes bids about Apr. 1, sewerage disposal system. $750,000. B. M. Hart, city engr. Pearse, Greeley & Hansen, Tower Bldg., Chicago, Ill., consult. engrs. Noted Jan. 14.

Okla., Sperry—See "Waterworks."

Calif., Chula Vista—Takes bids in April, sewers in various streets and disposal plant. Burns-McDonnell-Smith, Rives-Strong Bldg., Los Angeles, engrs. Noted Jan. 7.

Calif., Los Angeles—Bd. Pub. Wks. takes bids about Apr. 12, sewer, etc. in Hobart Blvd. between Florence and Denker Aves., and 79th St. between Harvard St. and Denver Ave., etc. to exceed $25,000; vitr. and cement sewer, etc. in Venice, Wilshire and Wilmington Blvds., to exceed $25,000; 8 in. sewer in Dolores St. between Broad and Canal Aves., to exceed $25,000. W. T. Knowlton, Brunswig Bldg., engr.

Calif., Los Angeles—Made plans 18,071 ft. 8- to 18-in. cement and 7,920 ft. 6 in. house sewers, etc., in portion of Centinelo Ave.; also 21,634 ft. 8- to 24-in. cement and 17,148 ft. 6 in. house sewers, etc., in Hyde Park Blvd. and Madden Ave.

Calif., Needles—Made surveys and making plans sewers in various streets. Burns-McDonnell-Smith, Rives-Strong Bldg., Los Angeles, engrs.

Calif., San Bernardino—Making estimates sewage disposal system (Imhoff treatment tanks and sprinkling filters). To exceed $500,000. C. E. Johnson, city engr.

Calif., San Diego—Plans sewers east of 32nd St. and south of Woolman Ave., 95,828 lin.ft. 6- to 16-in. cement, and 180 ft. 6 and 14 in. c.i. pipe, etc. F. A. Rhodes, city engr.

Bids Desired

N. Y., New York—Mar. 26, by W. J. Flynn, acting pres. Bronx Boro, Crotona Park, Tremont and 3rd Aves., storm water drains in Adee Ave., and East 222nd St.; receving basins, etc., on Stell Pl., Waring and Laconia Aves.; sewers in East 222nd, Tiffany, Truxton, East 156th Sts., Randall, Waring and Yates Aves., etc.

N. Y., St. George—Apr. 6, by J. A. Lynch, pres. Richmond Boro, Boro Hall, sewage treatment and pumping plant, west of Ocean Ave., near Oakwood Beach, here.

N. J., Bridgeton — Mar. 30th, by City Council, City Hall, C. P. Corey, clk., approximately 31,200 lin.ft. 8- to 18-in. terra cotta sewer, etc. in various streets. Remington & Vosbury, 509 Cooper St., Camden, engrs.

Va., New Market—See "Waterworks."

O., Dayton—See "Streets and Roads."

O., Lewisville—See "Streets and Roads."

O., Akron—Apr. 1, by W. F. Peters, dir. Pub. Serv., 1,655 ft. 18- to 42-in. vitr. clay trunk sewer on Manning Lake Trunk, (Parkdale St. et al), $35,500; 2,775 ft. 12- to 48-in. in River St. et al, $35,800; 6,600 ft. 8- to 39-in. in Glenwood Ave. et al, $35,900. J. E. Root, Municipal Bldg., engr.

O., Cleveland—Mar. 31, by City, sewers in Bellaire Blvd., Quincy Ave., Pearl Rd., West 58th and 130th Sts. To exceed $25,000. R. Hoffman, City Hall, engr.

Mich., Lincoln Park (mail Detroit)—Mar. 31, by G. A. Dingman, drain com., Wayne Co., County Bldg., Detroit, LeBlanc Drain, Ecorse and Taylor Twps., incl. Sect. A, 11,869 lin.ft. 2 bbl. section; Sect. B, 4,706 lin.ft. 2 bbl. section; Sect. C, 4,444 lin.ft. single bbl.; Sect. D, 3,477 ft. 6 ft. diam; Sect. E, 5,828 ft. 6 in. monolithic concrete drain; Sect. F, 1,656 lin.ft. 48 in. circular section; Sect. G, 884 lin.ft. 42 in. circular section; Sect. H, 828 lin.ft. 36 in. section; Sect. I, 2,915 lin.ft. 48 in. circular section; Sect. J, 274 lin.ft. 48 in. circular section; Sect. K, 1,380 lin.ft. 36 in. circular section; Sect. L, 2,838 ft. 48 in. circular section, and Sect. M, 1,655 lin.ft. 6 in. circular section. R. A. Murdock, Transportation Bldg., Detroit, engr.

Mich., Pontiac—Apr. 2, at office H. A. Maurer, city clk., City Hall, N. W. Trunk Sanitary Sewer, Contr. 3. J. R. Pollock, city engr.; adv. E. N.-R. Mar. 25.

Ill., Chicago—See "Streets and Roads."

Wis., Antigo—Apr. 21, by G. O. Palmiter, city clk., 20 x 35 ft. concrete and steel, sewage disposal plant. J. Donohue Eng. Co., 608 North 8th St., Sheboygan, engrs.

Wis., Milwaukee — Mar. 27, by J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., two 2,500 g.p.m. motor operated float controlled, centrifugal pumps for Mud Creek low level sewage booster station.

Wis., Wauwatosa—Apr. 2, by Bd. Pub. Wks., A. Brigham, secy., sewer and water connections in North Ave. $35,000. J. E. Lowther, city engr. Former contract rescinded. Noted Mar. 4.

Calif., San Fernando — Apr. 5, by Trustees, sewer in Municipal Sewer Dist. 1, 56,152 lin.ft. 8- to 18-in. pre-cast concrete pipe, etc. Black & Veatch, Ferguson Bldg., Los Angeles, engr.

Calif., San Francisco—Apr. 7, by Bd. Pub. Wks., constructing 2,996 ft. 5 ft. 6 in. and 76 lin.ft. 2 ft. 3 in. rein.-con. sewer with portion of invert lined with vitr. brick, etc., in 43rd Ave. (Sunset Dist.), for City and San Francisco Co. $75,000. M. M. O'Shaughnessy, city engr. Noted Mar. 11.

Sask., Saskatoon — See "Streets and Roads."

B. C., South Vancouver—See "Contracts Awarded."

Bids Received

Md., Baltimore — Bd. Awards, Mar. 17, storm drains and sanitary sewers in Dists. H-9 and H-12, Contr. 93, from Chesapeake Constr. Co., 216 St. Paul St., $64,845. Noted Mar. 11.

O., Akron—W. F. Peters, dir. Pub. Serv., Jan. 28, 305,000 tons filtering material. Contr. from Botzum Bros. Co. $549,000. Noted Dec. 24.

O., Cleveland—City, Mar. 10, 425 ft. 3 in. "C" brick and 760 ft. 12- to 24-in. vitr. sewer in Victoria Ave., from George & Ameen Co., 2165 East 33rd St., $8,213; 2,110 ft. 12- to 18-in. vitr. tile in West 130th St., and 4,480 ft. 12- to 18-in. in Woodbury Ave., from Kassouff & Co., 3182 West 25th St., $10,002 and $15,000 respectively; 1,245 ft. 12- to 18-in. vitr. tile in West 150th St. and 1,835 ft. 12- to 18-in. in West 151st St., from F. Phillips Co., Engineers Bldg., $4,511 and $6,289 respectively; 202 ft. brick or rein.-con. sewer in Kingsbury Run, from Coraci Constr. Co., 3414 East 123rd St., $4,421; and 600 ft. 3 "C" brick and 1,565 ft. 12- to 24 in. vitr. tile sewer in East 53rd St., from Manson Co., Engineers Bldg., $14,079.

Mich., Detroit — Dept. Pub. Wks., Mar. 15, 2,253 lin.ft. 10 ft. and 6½ ft. monolithic concrete sewer in tunnel in Seven Mile Rd. Arm, Ashland Ave. Sewer, in Seven Mile Rd. from Gratiot Ave. to point 166 ft. west of Schoenherr Rd., from Walbridge-Aldinger Co., 2356 Penobscot Bldg., $151,686. Noted Mar. 11.

Minn., St. Paul—A. E. Eggert, city purch. agt., Mar. 9, for Maryland-Como Sewerage System, Contr. B approximately 6,000 ft. 12- to 30-in. and 813 ft. 48 in. pipe, etc., from Thornton Bros., 318 Endicott Bldg., $34,777. Noted Mar. 4.

Colo., Denver—Dept. Impvts. & Parks, Mar. 9, 17 mi. 8- to 24-in. vitr. sewer in Barnum Special Sanitary Dist. 1, from Constr. Serv., Inc., Tramway Bldg., $159,231; also 15 mi. Dist. 2, from Dobson & Humphreys, Lincoln, Neb., $124,848. Noted Feb. 11.

Calif., Los Angeles—Storm drain in La Brea Ave. between 1st and 9th Sts., etc., from United Concrete Pipe & Constr. Co., P. O. Box 6, Ventura, $66,000.

Calif., Los Angeles—Constructing 51,397 ft. 6- to 10-in. segmental block sewer in 9th Ave., from M. J. Simonovich, 727 Alpine St., approximately $59,243. Engrs. est. $74,523.

Calif., Los Angeles—For 30,000 ft. 24 in. rein.-con. sewer between Santa Monica and Hyperion outfall, from E. Strand & Co., Vista, $3.72 per ft. Engrs. est. $100,000 plus.

Calif., Yuba City—City Trustees, 70,000 lin.ft. 6- to 16-in. sewer in various streets, from United Concrete Pipe & Constr. Co., Merced, vitr. pipe $59,841, concrete pipe $60,615. Noted Feb. 18.

Contracts Awarded

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, to F. DiPasquale, 1215 South 7th St., branch sewer in Aldine St. $7,435, Ryan St. $13,116, Tudor St. $7,463, to J. Venuti, 1812 South 15th St., Almond St. $4,078, Howard St. $3,786, to J. Moss, 1652 Wakeling St., Bridge St. $1,155, to N. Cascetti, Real Estate Trust Bldg., Carpenter Lane, $5,278, Vernon Rd. $11,983, Westview St. $5,013, to Curtis Bros., State Rd. and Unruh St., Cottage St. $3,213, Gillespie St. $3,226, to A. Bonitatibus, 300 West Mt. Pleasant Ave., Crispin St. $3,679, 21st St. $7,751, to A. D. Sandro & Son, 3906 North 5th St., Ditman St. $16,338, 4th St. $15,953, Godfrey Ave. $20,825, Keystone St. $6,279, Tabor Rd. $17,325, to McCoal Constr. Co., 5033 Duffield Ave., Hegerman St. $4,860, Salmon St. $861, Torresdale Ave. $4,745, to H. H. Pizagno, 907 South 13th St., Hilton St. $6,283, 34th St. $7,506, to P. and A. J. Ellis, 4th St., Horrocks St. $11,957, to V. S. Campellone, 812 West Washington St., Victoria St. $3,185; to J. J. McHugh, 1617 Race St., main sewer, in Tacony Creek Park $35,649, and to Mazzola & Marano, 739 South 7th St., Erie Ave. $141,652. Grand total $370,604. Noted Mar. 4.

O., Akron—W. F. Peters, dir. Pub. Serv., fine screens, Contr. 2, and clarifier mechanisms, Contr. 4, to Dorr Co., Inc., $14,490 and $12,080 respectively; sewage meters, Contr. 3, and Kennedy Valves, Contr. 5, to Hardware & Supply Co., 475 South High St., $12,546 and $28,586 respectively; sluice gates, Contr. 6, to Rodney Hunt Machine Co., 79 Lake St., Orange, Mass., $26,518; centrifugal pumps, Contr. 7, to Yeomans Bros., 1436 Dayton St., Chicago, Ill., $6,785; cast iron pipe and fittings, Contr. 9, to U. S. Cast Iron Pipe Co., Burlington, N. J., $67,016. Grand total $168,021. Noted Dec. 24.

O., Cleveland — To Yahya Bros., 3196 West 25th St., 880 ft. 8- to 18-in. vitr. tile sewers in Walbrook Ave. $2,925, 1,386 ft. 8- to 24-in. in Leella Ave. $4,674, 1,385 ft. 8- to 24-in. in Grumsby Ave. $5,584, 935 ft. 8- to 18-in. in Germaine Ave. $2,556, 1,680 ft. 8- to 15-in. in Bradgate Ave. $4,713, and 2,025 ft. 8- to 24-in. in West 152nd St. $7,746; to F. Phillips Co., Engineers Bldg., 260 ft. 12- to 18-in. in West 155th St. $2,640, 1,835 ft. 12- to 18-in. in West 151st St. $6,289, and 1,245 ft. in West 150th St.; to W. McDowell & Son Co., 10319 Miles Ave., 12- to 15-in. in West 146th St. $4,712, 440 ft. West 11th St. $2,886, 1,200 ft. in Kinkelaar Ave. $3,730; to Hanna & Mitchell Constr. Co., Erie Bldg., 780 curb connections in West 145th St. $696; to Langenhan Constr. Co., Marshall Bldg., 380 ft. 3 ft. C and 335 ft. 2 ft. C brick sewer in West 114th St. $14,253, and 555 ft. 12- to 18-in. vitr. tile sewer in Firsby Ave. $3,598.

Ill., Franklin Park — Sewers in Schiller Park Blvd. and other streets, to Pastoret Constr. Co., 506 Sellwood Bldg., Duluth, Minn., $299,121. Engrs. est. $300,000.

Wis., Milwaukee—Metropolitan Sewerage Comn., 508 Market St., to Wenzel & Henoch Constr. Co., 498 27th St., sewer in Roosevelt Dr. addition, 11,550 ft. 42 in. concrete pipe, $24.40 per ft., 1,085 vertical ft. standard manholes $24, 535 vertical ft. drop manholes $50, total $322,305. Noted Mar. 11.

Wis., Milwaukee—Dept. Pub. Wks., Sect. 6, storm sewer in 26th St., to Wenzel & Henoch Constr. Co., 498 27th St., $130,501. Noted Mar. 18.

Mo., University (Sta. St. Louis)—Cyrus Crane Wilmore Organization, Inc., 6,780 ft. 8- to 57-in. vitr. clay and segmental block sewers, 10,500 cu.yd. earth and 1,000 cu.yd. ditch excav., etc., in University Park 2, to Grant & Meinert, c/o Municipal Contractors Assn., Fullerton Bldg., St. Louis. Engrs. est. $42,000.

Calif., Los Angeles — Los Angeles Co. Sanitation Dist. 4, constructing trunk sewer, to J. Chutuk, Wilcox Bldg., $28,252.

Calif., San Carlos—Vitr. sewers in various streets, to H. E. Conner, 100 Duane St., Redwood City, $18,225. Noted Dec. 31.

B. C., Burnaby — Municipality, lateral sewers in various streets, to Harrison & Lamond, 602 Hastings St. W., Vancouver, $18,050; to J. W. Kelly, 510 Boundary Rd., Vancouver, $14,327; and to N. Casco, 1174 Bway. W., Vancouver, $23,825. Grand total $52,202. Noted Feb. 11.

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INDUSTRIAL

Sewers (Continued)

B. C., **South Vancouver**—Will build large number lateral sewers in South Hill Dist., by day labor. T. Brooks, recvr. $112,000.

Waste Disposal

Proposed Work

R. I., **Woonsocket** — Plans garbage disposal plant. $135,000. Address City Engineer.

Bids Desired

Calif., **Los Angeles**—Apr. 7, by Bd. Pub. Wks., 200 ton or alternate 400 ton per 12 hr. refuse incinerator. To exceed $300,000.

Contracts Awarded

Md., **Baltimore** — Bd. Awards, altering and constructing 2 story, 30 x 50 ft., rein.-con. and brick, disposal plant addition, plain foundation, Sisson and 28th Sts., to DeCou & Davis, 9 West Chase St., $101,990. Noted Mar. 11.

Mo., **Kansas City**—Pan Amer. Feed Co., 615 Ridge Bldg., 4 story, 90 x 126 ft. garbage incinerator, to J. Thompson, Huntzinger Bldg. $225,000 cost plus percentage basis. Noted Dec. 31.

Bridges

Proposed Work

Massachusetts — Cities of Newton and Wellesley plan bridge over Charles River between both cities. $50,000. Engineer not selected.

Mass., Andover — See "Streets and Roads."

Mass., Cambridge (Boston P. O.)—Harvard College plans John W. Weeks Bridge over Charles River. $200,000 donated by members of Hornblower & Weeks, 60 Congress St., Boston. Engineer not selected.

Mass., Lancaster — Commonwealth of Massachusetts, Dept. Pub. Wks., Boston, made plans two 45 ft. span concrete bridge, here. To exceed $25,000. Private plans.

Mass., Medford—Commonwealth of Massachusetts and City of Medford, plan rein.-con. bridge over Mystic River, at Winthrop St. $60,000. F. R. Charnock, City Hall, engr.

Mass., Weymouth (Ind. br. Boston)—See "Streets and Roads."

R. I., Pawtucket—City, Pub. Wks. Dept., I. Gill, comr., making plans widening and improving stone bridge, Exchange St. $350,000. J. R. Worcester & Co., 79 Milk St., Boston, Mass., engr.

N. J., Bridgeboro — State Hy. Comn., Trenton, plans bridge over Rancocas Creek, here. $300,000. W. G. Sloan, highway engr.

Pa. Canonsburg — Comrs. Washington Co. at Court House, Washington, making plans two 50 ft. span bridge, 24 ft. roadway, etc., over Chartiers Creek, here. $25,000. Chaney Eng. Co., Court House, Washington, engrs.

Pa., Knoxville — Plans new bridge, on Georgia Ave. $200,000. Allegheny Co. (Pittsburgh) appropriate 50% of cost.

Mississippi—Black River Bridge Co., H. E. Bovay, pres., Stuttgart, Ark., making preliminary plans rein.-con. and steel toll bridge over Mississippi River, Vicksburg, here; and one at Natchez. Each to exceed $25,000.

Wis., Fond du Lac—J. Hohensee, city clk., plans 132 ft. span rein.-con. bridge, Johnson St. $25,000. C. F. Whitney, 214 Mason St., Milwaukee, engr.

Kan., Eldorado—Butler Co. plans 1 span 150 ft. marsh arch bridge on Federal Aid Project 239-D. E. S. Elcock, Elorado, co. engr.

Neb., Omaha—Plans constructing east end of concrete and steel bridge, at 42nd and Q Sts. $85,000.

Mo., Kansas City—City and Kansas City Terminal Ry. Co., Union Sta., making plans steel and rein.-con. viaduct, on Van Blunt Blvd. $1,200,000. C. Hanna, c/o Terminal Co., engr.

Tex., Brownsville—Gateway Bridge Co., making preliminary plans steel and rein.-con. bridge across Rio Grande River. $100,000. Private plans.

Tex., Cleburne — Making preliminary plans steel and rein.-con. bridge across Buffalo Creek, on West Wardville St. $30,000. C. H. Teesdale, Cleburne, city engr.

Tex., Corpus Christi—Oceanside Toll Rd. Co., c/o S. A. Robertson, plans 20,000 ft. timber and creosoted bridge across Laguna Madre to Flour Bluff. $70,000. Private plans.

Texas—See "Missouri."

Okla., Drumright—State Hy. Dept., Oklahoma City, making preliminary plans 4 span 450 ft. steel truss bridge on concrete piers over Cimmaron River, here. $150,000. J. M. Page, highway engr.

Bids Desired

Pa., Johnstown — Apr. 10, by Johnstown Stony Creek R.R. Co., E. B. Entwisle, ch. engr., single span bridge on concrete abutements over Stony Creek. $50,000.

Delaware—See "Streets and Roads."

Fla., Jacksonville—Apr. 1, by Bd. Comrs. Duval Co., F. Brown, clk., Room 101, Court House, constructing new highway bridge over Pablo Creek, on Atlantic Blvd., Rd. 2, Duval Co. T. B. Carrick, 305 Court House, co. bridge engr.; adv. E. N.-R. Mar. 25.

Mississippi — Apr. 14, by Bd. Supervs. Harrison and Hancock Counties, Chancery Court, Bay St. Louis, steel swing span bridge, incl. 2 mi. approaches, 20 ft. roadway over Ship Channel on Highway 85 between Bay St. Louis and Gulfport, 3,070,200 ft. creosoted timber, 200,000 ft. creosoted piling, 30,000 lb. reinforcing, also 24,188 sq.yd. bituminous paving. Address Chancery Clerk, Bay St. Louis, or H. C. Dietzer, Jackson, highway engr.

O., Cincinnati — Apr. 16, by Comrs. Hamilton Co., Court House, 2 span 78 ft. concrete girder bridge, on Red Bank Rd. $25,000. E. A. Gast, Court House, engr. Noted Mar. 11.

Ind., Indianapolis — Apr. 5, by Comrs. Marion Co., Courthouse, 3 span, 152 ft. bridge, 70 ft., on North Meridian and Canal Sts. $66,832.

Ind., Indianapolis—Apr. 12, by Bd. Comrs. Marion Co., constructing and repairing Bridge 796, $991; Bridge 814, $21,911; Bridge 798, $900; Bridge 816, $9,337; Bridge 819, $1,093; Bridge 820, $911; Bridge 821, $4,152; Bridge 801, $259; Bridge 802, $339; Bridge 803, $1,200; Bridge 806, $1,105; Bridge 815, $312; Bridge 822, $1,284; Bridge 823, $3,173; Bridge 824, 512. Work involves 52,533 lbs. reinforcing. H. Dunn, aud.

Michigan—See "Streets and Roads."

Ia., Logan — Apr. 2, at office Auditor Harrison Co., one 71 x 20 ft. arch bridge, one 70 x 20 and one 80 x 20 ft. pony truss bridges, three I-beam bridges, raising one I-beam bridge, also 48 box culverts and extensions, and 5 circular culverts. T. A. Cherry, Logan, co. engr.

Ia., Maquoketa — Mar. 31, at office Auditor Jackson Co., one 70 x 20 ft pony truss bridge and one 130 x 20 ft. high truss bridge, on Federal Aid Project 143-B. T. E. Tiley, Maquoketa, co. engr.

Minn., Duluth — Apr. 30, by W. H. Tischer, city comr., 150 ft. rein.-con. bridge, 50 ft., 10th St. $75,000. J. Wilson, city engr.

Wyoming—See "Streets and Roads."

Wyo., Powell — Mar. 31, by State Hy. Dept., Cheyenne, 80 ft. steel truss bridge near here, Park Co. $25,000. J. F. Seiler, Cheyenne, ch. engr.

Ark., Osceola—Apr. 2, by Comrs. Sub-Dist. 1 of D. D. 8 and Sub-Dist. 3 of D. D. 9, Mississippi Co., 3,000 ft. timber bridges and trestle, 300 ft. moving steel spans, and 30 cu.yd. culverts. Morgan Eng. Co., Goodwin Institute, Memphis, Tenn., engrs.

Arkansas—See "Streets and Roads."

Tex., Waxahachie — See "Streets and Roads."

Ont., Toronto—Apr. 3, by R. W. Phillips, secy. Toronto & York Roads Comn., 57 Adelaide St., 3 concrete bridges in York Co. $25,000. E. A. James, c/o owner, engr.

Bids Received

Ohio—Dept. Hys. & Pub. Wks., Mar. 19, concrete bridge on Sect. "I" Athens-McArthur Rd., Athens Co., from Merry & Miller, Caldwell, $4,878; rein.-con. bridge over Mill Creek, on Sect. "U" Ohio River Rd., Washington Co., from W. H. Helby & Co., Marietta, $20,757; concrete bridge, Sect. "H" same road, and concrete bridges, etc., on Sect. "H" same road, from Reedy Bros. Warren, $3,780 and $5,841 respectively. Noted Mar. 11.

Tex., Anderson—See "Streets and Roads."

Tex., Boston—See "Streets and Roads."

Tex., Carthage—See "Streets and Roads."

Tex., Dallas—See "Streets and Roads."

Tex., Linden—See "Streets and Roads."

Contracts Awarded

North Carolina—State Hy. Dept., Raleigh, rein.-con. bridges, etc., on Project 635, Gaston Co., to P. S. Minus, Spartanburg, $104,282. Noted Feb. 18.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, bridges on Project 36-C, Shelby Co., to B. Boyd & Co., Hickory, N. C., $65,328; Project 64-A, Obion Co., to W. M. Hill & Sons, Fulton, Ky., $38,002; Project 300-C, Morgan Co., to North Fork Constr. Co., Jackson, Ky., $25,341; Project 311-A and B, Hardin & McNairy Counties, to W. H. Shons Co., Freeport, Ill., $71,503; Project 322-A, McMinn Co., and Project 324, Hamblen Co., to AEay Constr. Co., Bristol, Va., $10,185 and $17,161 respectively; Project 325-A, Davidson Co., to F. E. Fisher, 3rd Ave. N., Nashville, $5,749; and Project 326-A, Sumner Co., to Clayton Paving Co., 44 Noel Blk., Nashville, $40,486. Grand total $273,755. Noted Feb. 25.

Indiana — J. D. Williams, dir. State Hy. Comn., Indianapolis, two 84 ft. span, steel girder bridge over Pennsylvania R.R. Traction, and two 150 ft. span steel truss bridge over County and Stucker Creek, on State Road 1-D, Scott Co., to Hutchinson Constr. Co., Indianapolis, $105,884. Engrs. est. $129,775. Noted Feb. 25.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, five 66 ft. span concrete girder bridge, incl. temporary road and bridge, on Route 5, Sect. 15-B, Winnebago Co., to Ferguson Constr. Co., 1033 North 2nd St., Rockford, $66,376; one 60 ft. span steel superstructure, incl. repairs to abutments, 42,600 lb. reinforcing, etc., on Route 7, Sect. 8-D, Bureau Co., to McCree & Co., 315 Hackney Bldg., St. Paul, Minn., $4,655; three 35 ft. span concrete girder railroad overhead crossing, on Route 1, Sect. 38-V, Johnson Co., to W. H. Shons Co., 11 South Liberty St., Freeport, $7,986. Grand total $79,017. Noted Nov. 5 and Feb. 11.

Wis., Racine—H. A. Nelson, comr. Pub. Wks., 270 ft. steel girder bridge and concrete approaches, 36 ft., etc., on 6th St., to E. E. Gillen Co., 288 East Water St., Milwaukee, $55,875. Noted Mar. 11.

Kan., McPherson — See "Streets and Roads."

Tex., Anderson—See "Streets and Roads."

Tex., Carthage—See "Streets and Roads."

Tex., San Antonio — City, J. W. Tobin, mayor, City Hall, 83 ft., rein.-con. and steel bridge, 43 ft., across San Antonio River, on Market St., to Pryor & Jeffrey, c/o Builders Exch. Bldg., San Antonio, $36,067. Noted Jan. 27.

Tex., Stephenville — See "Streets and Roads."

Dams

Proposed Work

Mich., Ypsilanti—See "Buildings—Industrial."

Tex., Coleman — See "Buildings — Industrial."

Calif., Willows—See "Buildings—Industrial."

Bids Desired

N. Y., Livonia—Apr. 16, by Bd. Water Comrs., Masonic Bldg., 38 ft. earth and concrete dam, and pipe line. J. P. Wells, 80 East Ave., Rochester, consult. engr.; adv. E. N.-R. Mar. 25.

Bids Received

Calif., Los Angeles — Bd. Supervs. Los Angeles Co., Mar. 15, 165 ft. concrete dam and appurtenant structures, tunnels, spillways, etc. in Sawpit Canyon, 2 mi. north of Monrovia, from Davis-Heller-Pearce, Inc., Stockton, for County Flood Control Dist. $296,905. Noted Jan. 28.

Contracts Awarded

Pa., Mount Union—See "Waterworks."

Pa., Phila.—See "Waterworks."

Railways

Proposed Work

Missouri—Chicago, Rock Island & Pacific R.R. Co., Chicago, Ill., making preliminary plans grading, and 33 mi. new standard gauge track between Trenton and Braymer, here. C. A. Morse, La Salle St. Sta., Chicago, Ill., ch. engr.

Bids Desired

Missouri—Apr. 3, by F. G. Jonah, ch. engr. St. Louis-San Francisco R.R. Co., Frisco Bldg., St. Louis, permanent construction program, incl. concrete piers, abutments, boxes, culverts, etc., on various parts of system. $125,000.

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8. *Acid-proof*
9. *Easily cleaned*
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NATIONAL PAVING BRICK MANUFACTURERS ASSOCIATION, ENGINEERS BLDG., CLEVELAND, OHIO

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Fla., West Palm Beach—Palm Beach Co. voted $3,250,000 bonds, deepening Lake Worth Inlet. Noted Dec. 24.

Tex., Dilley—Frio Co. Irrigation Dist., making surveys map out site for reservoirs and tests for foundation of dam. When above is completed plans election $3,000,000 bonds, constructing irrigation project, irrigating approximately 50,000 acres. Nagle, Witt & Rollins, Keystone Bldg., Houston, and Santa Fe Bldg., Dallas, engrs. Noted Dec. 24.

Ariz., Benson—Benson Canal Co. making plans lengthening canals, installing pumps, etc., to add 1,000 acres to irrigation project. $30,000 bonds sold. Address Chief Engineer of owner.

Calif., Grass Valley—Nevada Irrigation Dist. making plans 11 mi. Bowman-Spaulding conduit with ½ mi. tunnel, 9 x 9 ft. diam., 3 mi. flume 9½ ft. diam., 7 mi. open canal, 180,000 cu.yd. excav., etc., $750,000; also made plans distributing system, 50 mi. canal, 138,280 cu.yd. rock and 761,410 cu. yd. earth excav., bridges, culverts, etc. F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, engr.

Calif., Merced — Merced Irrigation Dist. plans election $1,000,000 bonds, completing relocation of railroad, and Exchequer Dam, etc. in connection with irrigation project.

Calif., Sacramento—C. S. Luce, P. O. Box 155, making plans irrigating approximately 230 acres, 3,000 ft. earth ditch, 15 x 3 x 2 ft., 1 centrifugal pump, 10 in. 8 cu.ft. capacity, direct connected to 18 hp. electric motor.

Calif., Saugus—E. R. Ruiz, Box 93, plans irrigating approximately 75 acres, open ditches and three 10 in. turbine pumps, Johnson or equal, etc.

Calif., Tracy—M. Bronich, R. D. I., Box 36, making plans irrigating approximately 350 acres, 4,720 ft. earth ditch 25 x 10 x 1½ ft., 1 centrifugal pump, etc. Ohm & Rabb, 517 East Market St., Stockton, engr.

Bids Desired

S. C., Darlington — Mar. 31, by Supervs. High Hill Drainage Dist. Darlington Co., drainage system, 25 mi. open ditches, 400,000 cu.yd. excav., etc. C. Kupfer, Hartsville, secy.

Fla., Bradenton—Apr. 14, by Mayor and City Council, dredging boat basin and making fill for pier and water front improvement. R. K. Van Camp, comr. Pub. Wks.; ad. E. N.-R. Mar. 25.

Calif., Woodland — Apr. 2, by Trustees Reclamation Dist. 2068, c/o A. C. Huston, constructing irrigation laterals, 165,000 cu.yd. excav. F. C. Hermann, Merchants Exch. Bldg., San Francisco, engr.

Contracts Awarded

N. J., Jersey City — Bd. Commerce & Navigation, State House, Trenton, V. Gelineau, dir., dredging from wharf at Leeds Point to Point in Great Bay 600 ft. easterly from Oyster Creek, to Delaware Dredging Co., 139 South 3rd St., Phila., Pa. at $0.32 per cu.yd. Noted Mar. 18.

N. J., Newark—Dept. Pub. Affairs, City Hall, T. L. Raymond, dir., 500,000 cu.yd. dredging and 30,000 cu.yd. rock removal in City Channel, Port Newark Terminal, to P. Sanford Ross, Inc., 277 Washington St., Jersey City, $517,000. Noted Mar. 18.

Calif., Los Angeles—Los Angeles Co., 80,000 yd., dredger fill in section east of Fish Harbor, to F. C. Franks Contg. Co., 260 California St., San Francisco, $0.2975 per yd.

Streets and Roads

Proposed Work

N. H., Marlboro—Plans constructing 1.75 mi. highway. $100,000. Cost to be borne by town and state. Dept. Pub. Wks., engr.

Massachusetts—State Hy. Dept., Boston, plans bituminous macadam repaving highway between Lexington and Concord, $70,000; also along North Shore Rd. and Winthrop Ave., to exceed $25,000. W. F. Williams, comr. Dept. Pub. Wks.

Massachusetts—State Hy. Dept., Boston, plans highway from Lynn to Braintree, $2,000,000. J. R. Rablin, Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, engr.

Massachusetts—State Hy. Dept., Boston, plans bituminous macadam paving highway along shore from East Squantum to Shoreham Sts., in Quincy, $50,000; Morton St. in Quincy and Dorchester, $210,000; and highway connecting Stony Brook Reservation with Blue Hill, to exceed $25,000. W. F. Williams, comr. Dept. Pub. Wks.

Mass., Andover—Plans repairing and reconstructing various streets and bridges. $100,000 appropriated.

Mass., Barnstable — Plans constructing new roads. $106,000 appropriated.

Mass., Boston—Plans widening West St., South Boston, to exceed $25,000; widening and reconstructing Brookline Ave., Roxbury Dist., $25,000; laying out and constructing street from Commonwealth Ave. to Ashford St., $25,000 or more. J. A. Rourke, comr. Dept. Pub. Wks.

Mass., Braintree (Ind. br. Boston)—Plans widening various streets. $27,765 appropriated.

Mass., Cambridge (Boston P. O.) — Plans widening and extending James St. to relieve traffic condition in Harvard Sq. To exceed $25,000. Engineer not selected.

Mass., Cambridge (Boston P. O.)—Plans widening Bway.-Main St. at junction, and bituminous macadam repaving Hapshire St. $350,000. Dept. Pub. Wks., engr.

Mass., Fitchburg — City and State Hy. Dept., Boston, plan highways. $213,700 appropriated. Engineer not selected.

Mass., Framingham—Plans reconstructing and extending Union Ave. $27,000 appropriated.

Mass., Hyannis—Plans improving roads in city and outlying districts. $106,000 appropriated. Engineer not selected.

Mass., Lexington — Plans improving various streets. $45,000 appropriated.

Mass., Needham (Ind. br. Boston) — Plans relocating and bituminous macadam widening Neholden St. $25,000.

Mass., Uxbridge—Plans repaving various streets and bridges. $26,517 appropriated. Private plans.

Mass., Waltham (Ind. br. Boston)—Plans widening Main St. $25,000 or more. Private plans.

Mass., West Roxbury (sta. Boston)—Dept. Pub. Wks., Boston, plans widening Oakland and Ashland Sts., here. $25,000 or more. J. A. Rourke, comr.

Mass., Weymouth (Ind. br. Boston) — Plans reconstructing and repairing various streets and bridges. $121,700 appropriated.

R. I., Woonsocket—Plans repaving various streets. $150,000. Address City Engineer.

Conn., Manchester — Takes bids about Mar. 27, concrete curbing and sidewalks on various streets. $35,000. J. F. Bowen, Town Hall, engr.

Conn., Thomaston—Town, R. H. French comr., High St., plans improving Center Park, adding soil, new turf, and shrubbery also curbing and walks, etc. $25,000.

New Jersey—Sussex Co. plans improving 4.5 mi. road from Simpsons Corner to Lafayette Twp. H. Snook, Newton, engr.

Pa., Clearfield—Boro Council takes bids probably Apr. 19, asphalt or concrete paving approximately 1 mi. Weaver, Locust, Pine, 5th, Walnut, Witmer and Front Sts., 18-28 ft. $60,000. E. W. Hess, Murray Bldg., boro engr.

Pa., Dormont—Boro Council, Boro Hall, making plans repaving West Liberty Ave. $73,300. Allegheny Co. (Pittsburgh) appropriates 50% of cost.

Pa., Uniontown — Fayette Co., Court House, making plans constructing Normalville-Connellsville Rd. $225,000. E. L. Clemmer, Court House, co. engr.

Pa., Washington—Washington Co. plans rein.-con. paving, etc., 1.6 mi. Monongahela Pike, 1.5 mi. Canonsburg-Thomas Rd., and 1.6 mi. Beallsville-Zollarsville Rd., 18 ft. $75,000 each. Chaney Eng. Co., Court House, engrs.

W. Va., Beckley—Marsh Fork Dist., Raleigh Co., election Mar. 27, $200,000 bonds, improving roads. W. J. Campbell, Beckley, engr.

North Carolina — State Hy. Dept., Raleigh, plans oil surfacing 10.45 mi. Project 549, Hoke Co., $26,125; and 16.3 mi. Project 515, Caswell Co., $40,750. C. M. Upham, Raleigh, engr.

N. C., Laurinburg—Scotland Co. plans to sell $400,000 bonds, constructing new roads. E. C. Muse, clk.

N. C., Washington—Beaufort Co. plans road from Hunters Bridge to Pantego. $256,000.

Miss., Biloxi—J. A. Swanzy, comr. Pub. Wks., takes bids about June 12, grading, extending waterworks, gas and electric systems, curbing, sidewalks and hard-surfacing various streets in Oak Park Subdivision. $125,000. Hawkins & Madding, Biloxi, engrs.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, plans grading, bridging, etc., 20 mi. Lafollette-Kentucky State Line Rd., Campbell Co.; improving 10 mi. Erin-Johnston City Rd., Unicoi Co.; also grading and probably concrete paving 10 mi. Una-Rutherford Co. line Rd., Davidson Co. C. N. Bass, comr.

Tenn., Winchester—Franklin Co. making surveys improving 9 mi. Sewanee-Sherwood Rd.

O., Alliance—Bd. Control takes bids in spring paving South Seneca St., $70,637; improving East Patterson St., $33,500; surfacing East Bway., $25,000; asphalt on concrete paving Milton St., $70,737; and widening North Union St., $25,800.

O., Alliance — Bd. Control soon takes bids widening and asphalt paving 1 mi. South Liberty Ave., 34 to 40 ft. $36,000-$40,000.

O., Canton—Bd. Control takes bids about Apr. 16, asphalt paving 23rd St. N. W. east of Cleveland Ave., 40 ft. $36,300. W. E. Sarver, City Hall, engr.

O., Cincinnati — Plans concrete curbing, sidewalks, granite paving 2,660 sq.yd. Sycamore St. from 4th to 3rd Sts. $35,086. C. O. Sherrill, City Hall, engr.

O., Cincinnati—Plans concrete curbing, sidewalks, and concrete paving 3,950 sq.yd. Ambrose Ave. from Hamilton Ave. to Lantana Ave. $25,000. C. O. Sherril, City Hall, engr.

O., Cincinnati—Hamilton Co. plans tar bound macadam paving 17,835 sq.yd. Eagle Creek Rd. from Harrison Pk. to Thompson Rd. $54,000. E. A. Gast, Court House, engr.

O., Barberton — Plans grading, curbing, sidewalks, sewers and paving Tuscarawas Ave. $58,671.

O., Portsmouth — Made plans grading, curbing, guttering and vitr. or hard burned brick paving 4,200 ft. Portsmouth St. from Main to South Sts., 32 ft. $53,000. Address City Engineer.

Mich., Detroit—Dept. Pub. Wks. making plans 3½ in. sheet asphalt on 8 in. concrete paving 4,400 sq.yd. Violetlawn Ave., $21,930; 8,200 sq.yd. Goulburn Ave., $40,850; 8,200 sq.yd. Fairport Ave., $40,850; 12,500 sq.yd. Alter Rd., $62,160; and 6,200 sq.yd. Sobleski Ave., $30,890. P. A. Fellows, City Hall, engr.

Mich., Detroit—Plans 3½ in. sheet asphalt on 8 in. concrete paving approximately 20,100 sq.yd. Meyers Rd., $100,480; 6,340 sq. yd. Garvin Ave., $31,690; 1,240 sq.yd. Meadowbrook Ave., $6,240; 7,220 sq.yd. Corbett Ave., $36,080; 2,140 sq.yd. Indiana Ave., $10,690; 3,650 sq.yd. 51st St., $18,260; 4,380 sq.yd. Saratoga Ave., $21,920; 2,800 sq.yd. Morley Ave., $13,910; 7,750 sq.yd. Wilfred Ave., $38,850; 6,750 sq. yd. Birwood Ave., $33,750; 2,140 sq.yd. Smart Ave., $10,720; and 1,990 sq.yd. Freer Ave., $9,940. P. A. Fellows, city engr.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids Feb. 19, 4 ft. widening 1 mi. and concrete paving 17.98 mi. Route 30, Sects. 1, 2, 7 and 8, Peoria Co. F. T. Sheets, highway engr. Noted Feb. 11.

Ill., Cambridge—Plans paving 22 blocks various streets. F. M. Connolly, 428-341 Peoples Trust & Savings Bank Bldg., Galesburg, engr.

Ill., Kirkwood—Warren Co. plans grading and graveling 23 mi. roads in Tompkins Twp., 18 ft. $70,000. W. F. Brownlee, Kirkwood, highway engr.

Wis., Beloit — Soon takes bids various types paving 3.7 mi. 16 streets, 28, 30 and 32 ft. $150,000. G. E. Heebink, City Hall, engr.

Wis., Marinette — S. O. Shea, city clk., made plans various types paving Miller St., Carney and Partridge Aves. $33,000. A. L. Hillis, city engr.

Wis., West Allis—A. L. Wichner, comr. Pub. Wks., soon takes bids paving 3 types incl. concrete on 72,000 sq.yds. 23 streets. W. Darby, City Hall, engr. Noted Jan. 7.

Iowa—State Hy. Dept., Ames, rejected bids Mar. 2, grading 2.74 mi. Primary Road Project 446, Mahaska Co. F. R. White, ch. engr. Noted Feb. 25.

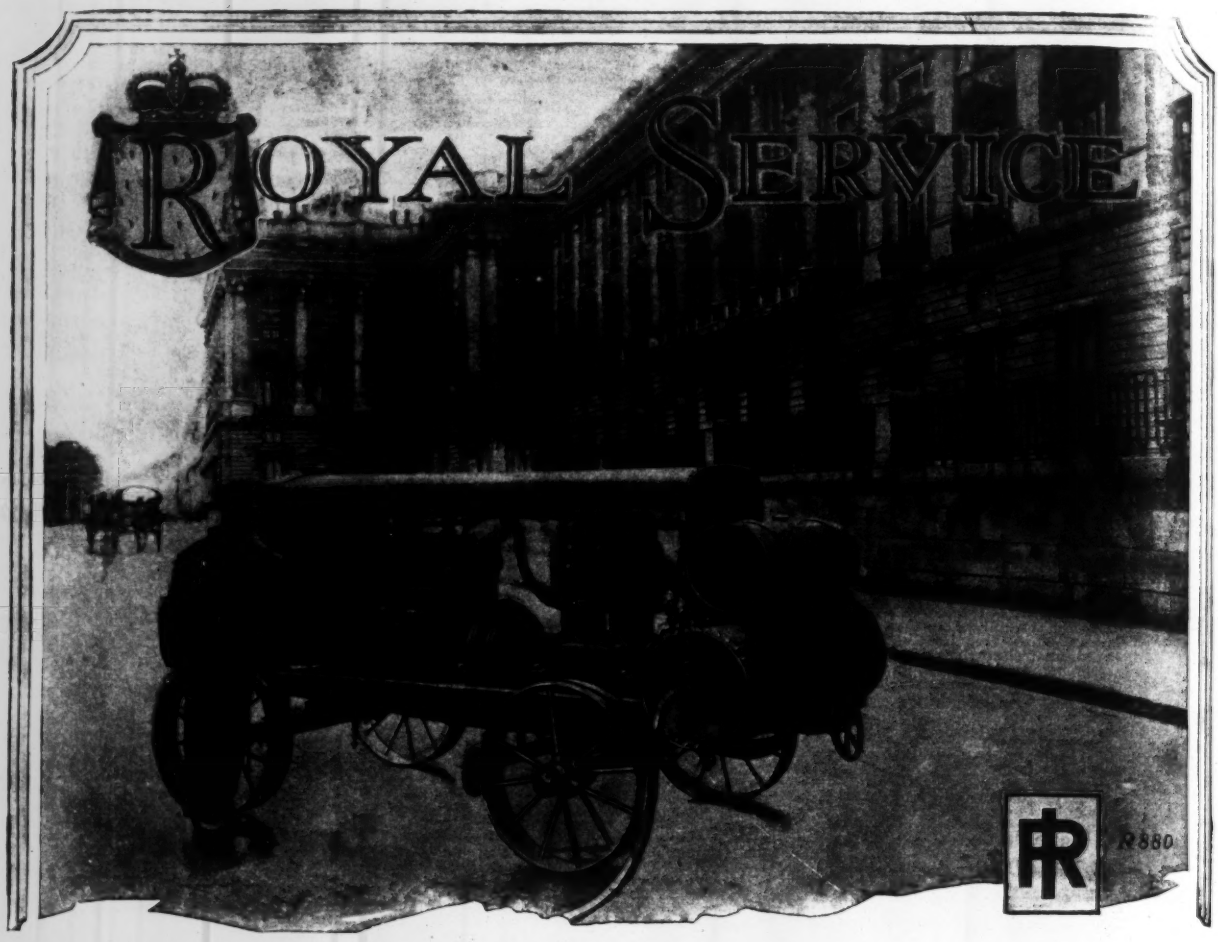
Ia., Burlington—Des Moines Co. election Mar. 29, $800,000 bonds, concrete paving 30 mi. primary roads. F. T. Weber, Burlington, co. aud.

Ia., Dubuque — Plans paving 20 to 25 blocks various streets. $100,000. W. H. Cullin, city engr.

Ia., Keokuk — Takes bids in April or May, Warrenite bitulithic or sheet asphalt on old macadam resurfacing 7,600 sq.yd. South 12th St. $18,700, and 9,700 sq.yd. North 14th St. $20,000. F. W. Maxwell, City Hall, engr.

Ia., Oskaloosa — Plans paving 15 to 20 blocks various streets. $45,000 up. D. B. Russell, city engr.

Ia., Monona—Plans paving 100,000 sq.yd. various streets. $250,000. W. F. Humphrey, city clk.



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Streets and Roads (Continued)

Ia., Newton — Plans paving 36 blocks various streets. $115,000. R. B. Davis, city clk.

Ia., Sigourney—Keokuk Co. election latter part of March, $1,250,000 bonds, improving various roads, incl. Primary Rd. 2. R. C. Fye, Court House, engr.

Minn., Aitkin—Making plans paving approximately 10 blocks Minnesota Ave. $35,000. I. Innez, city clk.

Kan., Lyons—Rice Co. plans grading and concrete paving, etc., 2.064 mi. Federal Aid Project 331-A, 18 ft. S. Ainsworth, Lyons, co. engr.

Neb., Omaha — Making plans grading, curbing, paving, etc., various streets in Dists. 2204, 2180, 184, 2821, 2841, 2885, 2729, 2815, 2803, 2788, 2837, 2763, 2744, 2757, 2865, 2783 and 2903. J. P. Hoctor, city clk.

Neb., Omaha — Plans grading, curbing and brick or asphalt paving 3 mi. 52nd St.

S. D., Flandreau—Plans paving 10 or more blocks Main and Wind Sts. $35,000 up. J. R. Coonrod, city aud.

Mo., California — Making preliminary plans grading, curbing and concrete paving 11 blocks various streets. Black & Veatch, 701 Mutual Bldg., Kansas City, engrs.

Mo., Kansas City—Making plans reconstructing and paving various streets. $1,400,000. P. McGeehan, city engr.

Mo., Springfield—Soon takes bids concrete paving, etc., 2,663 sq.yd. Fulton Ave., 9,085 sq.yd. West Division St., 1,827 sq.yd. West McDaniel St., 6,805 sq.yd. Robberson St., 1,969 sq.yd. West Madison St.; concrete sidewalks on 2,947 ft. Browser St. S. R. Fisher, City Hall, engr.

Mo., Stewartsville — Election Mar. 30, $25,000 bonds, concrete paving 9,000 yd. various streets. J. W. Shikles & Co., 708 New York Life Bldg., Kansas City, engrs.

Mo., Sweet Springs—Making plans 7 in. rein.-con. paving 7,000 yd. various streets. $25,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, engrs.

Ark., Arkadelphia — Making preliminary plans grading, curbing, and hardsurfacing 60 blocks Paving Dist. 4.

Ark., Harrison — Making preliminary plans grading, curbing and concrete or asphalt paving 17,500 sq.yd. Bower, Spring and Pine Sts., Paving Dist. 3.

Tex., Alice—Jim Wells Co. making plans 1 in. two course rock asphalt on macadam paving 5.93 mi. State Highway 12, Federal Aid Project 424-C, Unit 2, $124,400; 14.3 mi. Highway 12, Federal Aid Project E, Unit 2, $234,000; 16.098 mi. State Highway 12, Federal Aid Project 429-G, Unit 2, $315,700; 13.7 mi. Highway 12, Federal Aid Project 429-F, Unit 2, $282,500, all 18 ft. F. E. Hess, Alice, co. engr.

Tex., Miles—Voted $30,000 bonds paving various streets. Address Mayor.

Oklahoma—State Hy. Dept., Oklahoma City, making preliminary plans grading, paving, etc. 12 mi. Norman-Shawnee Rd., 30 ft., Cleveland Co. $45,000. J. M. Page, highway engr.

Tex., Jourdanton—Plans hard paving 16 blocks various streets. $40,000. Address Mayor.

Okla., Drumright—Plans grading, curbing and concrete paving 7,800 sq.yd. streets in Dist. 5. $31,000. Peckham & James, 225½ West Grand St., Oklahoma City, engrs.

Okla., Durant — Plans grading, curbing and concrete paving 15,350 sq.yd. streets in Dists. 9, 10 and 11. $46,000. L. V. Stinson, Durant, engr.

Okla., Newkirk—Plans grading, curbing and concrete paving 9,640 sq.yd. Cedar St. $31,200. F. B. King, Newkirk, engr.

Wash., Seattle — King Co. takes bids about Apr. 8, concrete paving, etc., 3 mi. North 110th St., 20 ft. $100,000. T. R. Beeman, city engr.

California—State Hy. Dept., Sacramento, making plans widening highway in vicinity of Colma (known as Bottleneck entrance to San Francisco), San Mateo Co., to exceed $300,000; widening, straightening and reducing grades on Dublin Canyon Rd. between Dublin and Hayward, Alameda Co., to exceed $75,000. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., Concord — Making plans paving, etc., various streets. $25,000. R. R. Arnold, Courthouse, Martinez, engr.

Calif., Hayward—Made plans improving A St. between Western Pacific R.R. and Southern Pacific R.R. tracks, 177,000 sq.ft. grading and asphaltic concrete paving, 7,300 lin.ft. concrete curbing, and 21,000 sq.ft. concrete guttering, etc. J. B. Holly, 2910 Telegraph Ave., Oakland, engr. Noted Dec. 31.

Calif., Livermore—Voted $15,000 bonds, concrete paving L St. $45,000. Alameda Co. and property owners appropriate $15,000 each toward cost.

Calif., Los Angeles — Plans widening, straightening and extending 8th St. between Figueroa St. and Windsor Blvd. To exceed $300,000.

Calif., Los Angeles—Made plans curbing, walks and 10 in. concrete paving 174,500 sq.ft. east half of Cahuenga Pass Rd.

Calif., Marysville — Yuba Co. making plans improving portions of Arboga and Hammonton Rds. To exceed $25,000. L. B. Crook, Marysville, co. surv.

Calif., Los Angeles — Los Angeles Co. making plans 6½ in. concrete on 5 in. disintegrated granite sub-base paving, etc., portions of Buena Park Rd., Artesia and Bloomfield Aves., etc. To exceed $25,000.

Calif., Petaluma—Defeated $42,000 bonds paving streets connecting with state highway. Noted Feb. 4.

Calif., Ontario — Made plans 4 in. asphaltic concrete paving 120,000 sq.ft. State and Benson Aves. W. E. Nugent, city engr.

Calif., Richmond—Making plans paving, curbing, walks and guttering portions of McLaughlin, Potrero and Stege Aves. To exceed $25,000. E. A. Hoffman, city engr.

Calif., Santa Ana—Made plans curbing, walks, 5 in. concrete paving, etc., 519,612 sq.ft. streets in southwest section of city. N. H. Neff, city engr.

Calif., San Rafael — Marin Co. making plans grading and concrete paving 1.3 mi. Pt. San Pedro Rd. To exceed $25,000. J. C. Oglesby, Cheda Blk., San Rafael, co. surv.

Sask., Saskatoon — Making plans sidewalks, sewers and watermains in various streets. $100,000. G. D. Archibald, city engr.

Bids Desired

Connecticut—Mar. 30, by J. A. Macdonald, comr. State Hy. Dept., Hartford, rein.-con. paving, etc., 28,720 ft. Middletown-New Haven Rd., 1,650 ft. Broad Brook-Ellington Rd. in East Windsor, 19,320 ft. Willimantic-Putnam Rd., Chaplin, 7 in. waterbound macadam paving 4½ mi. South St., Vernon Ave. and Hartford Tolland Turnpike in Vernon and Tolland; grading, etc., 8,380 ft. Boston Post Rd. in Guilford; grade crossing elimination by bridging, etc., Bishop Crossing-Saybrook Junction, in Plainfield and Saybrook.

N. Y., St. George — Mar. 30, by J. A. Lynch, pres. Richmond Boro, Boro Hall, granite block repaving Delafield Pl., and bituminous concrete repaving Morningstar Rd.

N. Y., New York — Mar. 26, by W. J. Flynn, acting pres. Bronx Boro, Crotona Park, Tremont and 3rd Aves., granite block on concrete paving Fordham Landing Rd., Harlem River Terrace, Cedar, East Tremont and Carter Aves., Bronx and East 176th Sts.; bituminous on concrete paving Garden and Miriam Sts.; grading, curbing and sidewalks on West 174th St.; sheet asphalt on concrete paving Bryant, Gerard and Rochambeau Aves., East 158th, 205th and 210th Sts.

New Jersey—Apr. 7, by Bd. Freeholders Cape May Co., Court House, Cape May, rein.-con. paving 40,111 sq.yd. Sect. 3, Seashore Rd. from State Highway Route 14 at Seaville to Palermo. R. F. Smith, Marmora, co. engr.; adv. E. N.-R. Mar. 25.

New Jersey—Apr. 7, Bd. Freeholders Passaic Co., Court House, Paterson, grading, etc. Hewitt-New York State Line Road Project 54, in West Milford Twp. W. Stalter, chn. road com.; adv. E. N.-R. Mar. 25.

N. J., New Market—Apr. 6, by Piscataway Twp. Com., bituminous macadam on old stone paving 1.5 mi. Lakeside and New Market Aves., 16 ft. L. T. Churchill, 319 4th St., Dunellen, engr.

N. J., Trenton—Mar. 30, by Bd. Freeholders Mercer Co., Court House, cold application tar on approximately 50 mi. various roads. H. F. Harris, Court House, co. engr.; adv. E. N.-R. Mar. 25.

Pa., Johnstown—Mar. 31, by S. E. Dickey & Co., engrs., 809 Johnstown Trust Bldg., improving Edward St. and Orange Ave., approximately 3,700 sq.yd. one course rein.-con. paving, 2,650 lin.ft. curbing, 2,700 lin.ft. 6- to 15-in. sewer, for City.

Pa., Pittsburgh—Mar. 31, by Controller Allegheny Co., vitr. brick on concrete paving 14,610 ft. McKeesport-East Pittsburgh Blvd., 18 ft., $150,000; and 7,255 ft. Fox Chapel Rd.-Bridge 2, 6 to 18 ft., $50,000. Dept. Pub. Wks., 519 Smithfield St., co. engr.

Delaware—Apr. 14, by State Hy. Dept., Dover, grading and broken slag surfacing, etc., 2.6 mi. Wyoming-County Farm, Contr. 59; grading and concrete paving, etc., 0.25 mi. Bear Station Crossing Elimination Contr. 58, 3.85 mi. Ginns Corner-Middletown Contr. CN32, and 1.25 mi. Rising Sun-Lebanon, Contr. CK31; and creosoted timber bridge at Collins Mills, Contr. 60, etc.; adv. E. N.-R. Mar. 25.

Md., Baltimore—Mar. 31, by Bd. Awards, grading and concrete paving alleys listed in Contr. 118 $30,000, and 13,450 sq.yd. Contr. 320; sheet asphalt paving 11,740 sq. yd. Contr. 321, and 22,000 sq.yd. Contr. 322; also improving various roads during 1926. S. Purcell, City Hall, highway engr.

Maryland—Apr. 6, by State Roads Comn., Baltimore, concrete paving 1.43 mi. Contr. C1-60 Carroll Co., 0.78 mi. Contr. H-41 Harford Co., 2.35 mi. Contr. D-29 Dorchester Co., and 1.2 mi. Contr. Wo-46 Worcester Co.; also concrete shoulders on 6.5 mi. Contr. A-2-C Allegany Co., 5 mi. Contr. B-20-C Baltimore Co., and 5 mi. Contr. K-1-A Kent Co. J. N. Mackall, chn.; adv. E. N.-R. Mar. 25.

N. C., Elizabeth City—Apr. 5, by A. McCabe, mayor and Bd. Aldermen, curbing, guttering, etc., 67,000 ft. various streets. W. C. Olsen, Masonic Temple Bldg., Raleigh, engr.

N. C., Elizabeth City—Apr. 6, by Comrs. Pasquotank Co., hardsurfacing 2.3 mi. Newland Roadway, Project 7. S. G. Scott, chn.; adv. E. N.-R. Mar. 25.

Ga., Toccoa — Apr. 5, by City Council, grading, curbing, sewers, water mains, guttering and rein.-con., sheet asphalt, bitulithic or asphaltic concrete on concrete paving 20,000 sq.yd. various streets. W. H. Booker, Charlotte, N. C., consult. engr.

Florida—Apr. 14, by State Rd. Dept., Tallahassee, clearing, grubbing, grading, paving, etc., 10.2 mi. road in Bay Co., R. L. Bannerman, Marianna, engr., 5.16 mi. Polk Co., A. W. Kinney, Lakeland, engr., 8.5 mi. Martin and St. Lucie Counties, and 8.73 mi. St. Lucie Co., R. J. Cassie, Ft. Pierce, engr.; also laying 8 in. rock base on 11.82 mi. Hamilton Co., J. H. Dowling, Lake City, engr., and 10.2 mi. Putnam Co., L. B. Thrasher, Ocala, engr.

Fla., Gainesville—Apr. 6, by Bd. Bond Trustees Special Road & Bridge Dist. 1, Alachua Co., Court House, surface treating approximately 156,800 sq.yd. Dist. Rd. 4. H. L. Baker, dist. engr.

Fla., Palmetto—Apr. 6, by Bd. Pub. Wks., L. K. Webb, comr., guttering, curbing, sidewalks, vitr. brick or asphalt block paving portion of Lemon Ave. $30,000.

Fla., Tampa — Mar. 30, by Bd. City Comrs., P. Wall, mayor, 2½ in. asphalt blocks or 2½ in. vitr. brick paving portion of Cleveland and Oregon Aves., Impvts. 134 and 142, $40,000; Cleveland St., Impvt. 135, $35,000; Lynn and Plymouth Sts., Impvts. 144, 145 and 154, $30,000; Euclid Ave., North F and Lime Sts., Impvts. 166, 167 and 170, $35,000; also Alley, Impvt. 201, Grand St., New Orleans, Comanchee, 2nd and Palm Aves., etc., Impvts. 187, 199, 202, 203 and 204, $50,000. R. O. Martin, City Hall, engr.

Fla., St. Augustine — Apr. 5, by City Comn. at office E. Masters, city mgr., improving Oak Pl., Grant, Waldo, Macaris, Prospect, Venancio, Sanchez, Center, Institute, Gabriel, Perpall, Donato, May, Milton, Genoply, Magnolia, Alfred and San Carlos Sts., Hildreth, North Park, South Park, East Park, Ocean, Douglas, Nelmar and Douglas Aves., Bay View and Sylvan Drives, 64,500 sq.yd. grading, paving and surfacing, 50,900 lin.ft. precast curbing and two-course guttering, 51,700 lin.ft. 5 ft. sidewalk, etc. E. Masters, city mgr.

Ala., Birmingham — May 1, by City Comn., asphalt on concrete paving 6 blocks 30th, 31st and 32nd Sts. (Ensley), 40 and 60 ft., $37,100; 6 blocks 26th St. N., 60 ft., $30,150; 5 blocks Ave. N, Oakland Ave., 29th and 30th Sts., 40, 50 and 60 ft., $23,500; 2 blocks 12th St. and 11th Court, 40 ft., $9,000; and 1 block 4th St. S. W., 40 ft., $5,750. A. J. Hawkins, city engr.

Miss., Fayette—Apr. 7, by Bd. Supervs. at office Chancery clk., Jefferson Co., improving 2.3 mi. Federal Aid Project 84-C, 15,771 cu.yd. excav., 7,880 yd. borrow, 4,922 yd. gravel, 30,080 units ½ mi. overhaul, also bridges over 20 ft. span, incl. 9,104 lb. reinforcing, 32,680 lb. structural steel, 13,882 ft. creosoted timber, etc. H. C. Dietzer, Jackson, engr.

Louisiana—Apr. 15, by State Hy. Comn., Baton Rouge, **(F. A. P. means Federal Aid Project)**, graveling 6.71 mi. Campti-Consharta Highway, F. A. P. 158-A Natchitoches Parish, 7.13 mi. Shreveport-Marshall Highway, F. A. P. 160 Caddo Parish, 7.47 mi. Livonia-Opelousas Highway, F. A. P. 169-G St. Landry Parish, and 5.19 mi. Sect. A, and 2.3 mi. Sect. B Monroe-Winnsboro Highway, F. A. P. 165, Richland Parish; also hardsurfacing 3.97 mi. West End-Carrolton Highway, State Project 539, Orleans Parish. W. B. Robert, Reymond Bldg., highway engr.

La., New Orleans—Mar. 30, by Dept. Pub. Finance, Purchasing Div., City Hall, A. J. O'Keefe, comr., grading, curbing, guttering, sidewalks, and paving with various materials South Claiborne Ave. from Louisiana to Washington Aves., South Claiborne Ave. from Washington to Melpomene Aves.; South Claiborne Ave. from Howard Ave.

Streets and Roads (Continued)

to Poydras St. (both sides); South Claiborne Ave. (north side) from Mistletoe St., to Orleans-Jefferson Parish line; South Claiborne Ave. (both sides) from Melpomene to Howard Aves.; St. Philip St. from North Rampart St. to St. Claude Ave.; St. Philip St. from North Galvez to North Hagen Sts., St. Philip St. from St. Claude to North Claiborne Aves.; Canal St. (upper side) from South Jefferson Davis Parkway, to South Anthony St.; Canal St. (upper side) from South Anthony St. to City Park Ave.; Canal St. (lower side) from North Anthony St. to City Park Ave.; Canal St. from North Jefferson Davis Parkway to North Anthony St.; Canal St. (upper side) from South Claiborne Ave. to South Jefferson Davis Parkway; Canal St. (lower side) from North Claiborne Ave. to North Jefferson Davis Parkway; Franklin Ave. (both sides) from Florida Ave. to Bay St. and from Bay to Lavender Sts.; St. Joseph St. from Tchoupotoulas to South Front Sts.; Alvar St. from Charters St. to St. Claude Ave.; Hamilton St. from Palmetto to Last Sts.; Poydras St. (upper side) from South Rocheblave to South Broad Sts. and South Prieur St. from Canal St. to Tulane Ave. Noted Feb. 11.

O., Cincinnati—Apr. 2, by Comrs. Hamilton Co., grading and tar bound macadam paving 10,400 sq.yd. Creek Rd. from Plainfield to Madisonville Rds. $25,000, 14,400 sq.yd. Old Indian Hill Rd. $33,630, 31,200 sq.yd. Plainfield Rd. from Old Creek to Sycamore Rds. $73,000, 20,000 sq.yd. Deerfield Rd. from Cornell to Cincinnati-Zanesville Rds. $48,810, and 16,900 sq.yd. State Rd. from Clough to Nagel Rds. $39,835. E. A. Gast, Courthouse, engr.

O., Dayton—Mar. 29, by Dept. Pub. Serv., curbing, guttering, sewers and concrete paving Sheridan Ave.; sidewalks on Wilmington Ave.; South Riverdale Storm Relief Sewer, and portion of Sanitary Sewer Dist. 4, etc. J. F. Hale, city engr.

O., Lewisville — Mar. 27, by Village Council, grading, sewering and slag surfacing Creamery St.; grading and Kentucky rock asphalt paving North Malaga St. E. D. Keylor, clk.

Michigan—Mar. 30, by State Hy. Dept., at office Comrs. Genesee Co., 613½ Industrial Bldg., Flint, graveling 3.5 mi. Belsay, Irish and Richfield Rds., and 3 mi. Hill, Duffield and Bray Rds., both 15 ft.; concrete paving 3.341 mi. Miller Rd., Sects. 23, 22, 27 and 28, also 6.486 mi. Flushing Rd., both 20 ft. G. C. Dillman, Lansing, highway engr.

Michigan—Mar. 31, by State Hy. Comn., at office Comrs. Allegan Co., Allegan, graveling 5.0123 mi. Assessment Dist. Rd. 11, 2.182 mi. Gull Lake Rd., 3.992 mi. North Watson Rd., and 1.6361 mi. Monterey-Salem Rd.; also Bridge Files 031503 and 031504, two 50 ft. concrete girders. G. C. Dillman, Lansing, highway engr.

Ill. Chicago — Mar. 30, at office Board Local Impvts., Room 207, City Hall, grading and 7 in. concrete paving various alleys between various streets and roadways, also tile sewers in various alleys. J. J. Sloan, pres.

Wisconsin—Apr. 1, at Division Office 4, Citizens Bank Bldg., Wisconsin Rapids, grading and concrete paving 27,106 sq.yd. Rippon-Green Lake Rd., Green Lake Co., Federal Aid Project 351-B; and 38,501 sq. yd. Waupaca-Veterans Home Rd., Federal Aid Project 442-A and B, Waupaca Co. J. T. Donaghey, Madison, ch. engr.

Wis., Manitowoc — Apr. 2, by A. H. Zander, city clk., rein.-con. and vibrolithic concrete paving 40,000 sq.yd. various streets. F. Alter, City Hall, engr.

Wis., Waukesha—Mar. 30, by C. J. Hahn, highway comr. Waukesha Co., improving Genesee-Mukwonago Rd., 51,532 cu.yd. earth, 300 cu.yd. loose and 50 cu.yd. solid rock excav., 61,452 sq.yd. 18 in. concrete paving, 3,595 lin.ft. standard curbing and guttering, etc. J. T. Donaghey, Madison, ch. engr.

Wis., Wauwatosa—Apr. 2, by A. Brigham, secy. Bd. Pub. Wks., 30,700 ft. rein.-con. pavement with integral curb and gutter on North Ave. between Swan Rd. and Spring Ave. J. E. Lowther, City Hall, engr.

Ia., Anamosa—Mar. 30, by Auditor Jones Co., improving 7.112 mi. Primary Rd., 133,830 cu.yd. earth, 1,075 cu.yd. solid rock and 822 cu.yd. loose rock excav., 139,950 sta.yd. overhaul, etc. $60,000. F. S. Yetter, Anamosa, co. engr.

Ia., Dubuque—Apr. 1, by Auditor Dubuque Co., grading, surfacing, etc., 22.825 mi. Dubuque-Cascade Rd. G. A. Blunt, Dubuque, co. engr.

Ia., Logan — Apr. 2, at office Auditor Harrison Co., grading, etc. 14.047 mi. Missouri Valley-Mountain Rd., Federal Aid Project 138, 329, 606 cu.yd. excav., 210,170 sta.yd. overhaul, etc. T. A. Cherry, Logan, co. engr.

Ia., Marquoketa — Mar. 31, by Auditor Jackson Co., improving 11.791 mi. Marquoketa-Jones Co. line Rd., Primary Rd. 61, 202,792 cu.yd. earth and 10,758 cu.yd. rock excav., 24,100 sta.yd. overhaul, etc. $80,000. F. E. Riley, Marquoketa, co. engr.

Ia., Rockwell City—Mar. 30, by Auditor Calhoun Co., improving 17 mi. various roads, 25,500 cu.yd. gravel 1 mi. haul, 104,625 units ½ mi. overhaul, etc. W. E. McClure, Rockwell City, co. engr.

Minn., Ely—Apr. 6, by A. O. Knutson, city clk., one course concrete paving approximately 8,200 sq.yd. various streets. $25,000.

Minn., Grand Rapids — Apr. 7, by T. Erskine, aud. Itasca Co., grading, etc., 22 mi. Marcell-Craigville Rd. $35,000.

Minn., St. Paul—Mar. 30, by A. E. Eggert, city purch. agt., paving Hamline Ave. between Hewitt and University Aves., Burr St. between Collins and Jenks Sts.; and Griggs St. between University Ave. and Bohn St. G. M. Shepard, city engr.

Kan., Lyons—Apr. 20, by Clerk Rice Co., grading and concrete surfacing 21,853 sq. yd. Federal Aid Project 331-A. S. Ainsworth, Lyons, co. engr. Noted Mar. 18.

Kan., Oswego—Apr. 16, by Clerk Labette Co., grading 6.751 mi. Federal Aid Project 214-A, 18 and 22 ft. J. Grady, Oswego, co. engr.

North Dakota — Apr. 7, by State Hy. Dept. and Comrs. Sheridan Co., at Court House, McClusky, gravel surfacing, etc. 11.934 mi. Federal Aid Project 209. C. Christensen, highway comr.

North Dakota—Apr. 8, by State Hy. Dept. and Comrs. Pierce Co., Court House, Rugby, grading, etc. 16 mi. Federal Aid Project 311-A, and 6.011 mi. Federal Aid Project 219-A. C. Christensen, highway comr.

Wyoming—Mar. 31, by State Hy. Dept., Cheyenne, grading and crushed gravel surfacing 15.5 mi. Federal Aid Project 19, Natrona Co., $276,578, Z. E. Sevison, Cheyenne, engr.; surfacing, etc., 7.6 mi. Federal Aid Project 103-A, Park Co., $75,000, R. L. Silver, Basin, engr.; also constructing 7 treated timber bridges and grading, etc., 25.9 mi. Federal Aid Project 191-A, Sweetwater Co., $108,030, G. W. Marks, Rawlins, engr., all 24 ft.

Mo., St. Louis — Apr. 13, by Bd. Pub. Serv., 208 City Hall, shallow granite block paving, etc., 6,055 sq.yd. Walnut St., $54,000; Warrenite bitulithic concrete paving, etc., 53,060 sq.yd. Lindell St. $204,520, and 4,025 sq.yd. Compton St. $33,000; Willite asphalt paving, etc., 1,555 sq.yd. Nashville St., $10,400; asphalt paving 8,285 sq.yd. Cook Ave. from Grand to Vandeventer Aves. $53,000, 1,795 sq.yd. Cook Ave. from Thomas to Grand Aves. $12,120, 1,210 sq. yd. California Ave. $6,600, 2,619 sq.yd. Botanical St. $21,000, 3,900 sq.yd. Plover St. $23,000, and 7,860 sq.yd. Clark St. $52,520; grading 15,685 cu.yd. Grand Ave. $24,520. W. W. Horner, 300 City Hall, engr. Noted Nov. 25.

Arkansas—Mar. 30, by State Hy. Dept., Little Rock, gravel and waterbound macadam surfacing 9.5 mi. Plumberville-Springfield Rd., Federal Aid Project 79, Conway Co., 7,335 cu.yd. earth shoulders, 42,336 cu.yd. fine grading, 34,680 cu.yd. reconstructed and 5,607 cu.yd. waterbound macadam base, 55,367 sq.yd. double bituminous surfacing; also 1 concrete overhead crossing over Missouri Pacific R.R. tracks near Canaan, Federal Aid Project 191-D, Lee Co., 5,306 cu.yd. earth and 195 cu.yd. dry excav., 35,772 lb. reinforcing, 272 ft. concrete piling, etc. R. C. Limerick, ch. engr.

Tex., San Antonio—Taking bids curbing, guttering and hard paving 2 mi. Buena Vista St. from Hamilton to Medina Sts., 45 ft. $100,000. I. Ewig, city engr.

Tex., San Antonio—Apr. 2, by A. C. Pancoast, co. engr., 102 Turner St., ½ in. natural limestone rock asphalt paving 4½ mi. Seguin Rd. from Under Pass to city limits, for Bexar Co., $28,000.

Idaho—Apr. 3, by Commissioner State Hy. Dept., Boise, improving Emmett Branch of Payette State Highway, State Aid Project 95, Gem Co., 62,160 sta.yd. overhaul, 69,770 cu.yd. excav., etc.

Washington—Apr. 6, by State Hy. Dept., Olympia, concrete paving, etc., 3.8 mi. State Rd. 3, Columbia Co., and 7 mi. State Rd. 1, Lewis Co.; grading, etc., 3.5 mi. same road; crushed rock surfacing, etc., 4,500 cu.yd. State Rd. 2, Douglas Co., and 4,000 cu.yd. State Rd. 2, Grant Co.; crushed gravel surfacing, etc., 4,200 cu.yd. State Rd. 10, Chelan Co. J. W. Hoover, ch. engr.

Wash., Wenatchee — Apr. 3, by Comrs. Chelan Co., grading, crushed rock surfacing, etc., 2.6 mi. Wenatchee-Chelan Highway, P. H. 20. J. Duff, Wenatchee, engr.

Calif., Chico—Apr. 6, by I. R. Morrison, city clk., grading, walks, guttering, concrete curbing, 1½ in. on 3½ in. asphaltic concrete surfacing, etc. portions of 6th, 7th, 8th, 9th Sts., etc. To exceed $25,000. R. Witt, city engr.

Calif., Los Angeles — Apr. 5, by Bd. Supervs. Los Angeles Co., improving California Ave., Impvt. 356, 58,846 sq.ft. sidewalk, 148,952 sq.ft. 2 in. Willite paving, etc. $79,255. G. Jones, Hall of Records, engr. Noted Mar. 18.

Calif., San Andreas—Apr. 5, by Supervs. Calaveras Co., graveling or crushed rock surfacing 3½ mi. Copperopolis-Milton Rd. W. S. Coulter, San Andreas, co. surv.

Calif., San Mateo—Apr. 5, by E. W. Foster, city clk., grading, curbing, concrete paving, etc., 118,000 sq.ft. El Camino Real.

Calif., Ventura — Apr. 6, by Supervs. Ventura Co., improving Willoughby Rd., 200,000 sq.ft. asphaltic macadam paving, 10,000 cu.yd. excav. C. W. Petit, Ventura, co. surv.

Ont., Toronto—Apr. 3, by A. W. Phillips, secy. Toronto & York Rds. Comn., 57 Adelaide St. E., 7 mi. waterbound macadam paving, 4 mi. bituminous penetration macadam paving, 5 mi. concrete paving various roads in York Co.; supplying crushed stone, gravel and bituminous materials. $365,000. E. A. James, 57 Adelaide St., engr.

Bids Received

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Mar. 18, laying and relaying sidewalks and curbing when and where directed during year 1926, from Valatia Constr. Co., 15 East 45th St., $5,242, and from J. Meehan & Son, 74 Courtlandt St., $28,295; also granite block on concrete repaving and widening 4th Ave., from W. J. Fitzgerald, 547 West 45th St., $87,976. Noted Mar. 11.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, Mar. 18, from R. B. Wenner, 2313 Walnut St., grading Aramingo St. $3,670, Ditman St. $2,226, Glenlock and Jackson Sts. $2,328, Loney, Loretta and Ripley Sts. $26,112, from Duffin Bros., 3643 North 11th St., Bingham, Comly, Lawndale, Levick and Vankirk Sts. $8,568, from Dewees Bros., 7200 Shelbourne St., Hunting Park Ave., Cayuga, N, Claridge, Dungan, Glendale, Howland, Luzerne, Markland, Maywood, Neilson and Ormond Sts., $62,657, from J. F. Nolan & Sons, 64 Church Lane, 65th Ave., Edna, Fern, Franklin, Front, Gale, Lawrence, Spencer, 2nd, 4th, 9th, 11th and 12th Sts., $41,082, from S. C. Ratzell, Limekiln Pike and Haines St., Lowber, Pastorious, Rodney and Wynsam Sts. $24,389, from J. D. Dorney, 2503 East Norris St., Magee St. $12,028, and Ruth St. $754; from Eastern Asphalt Co., Penn Bldg., asphalt paving (assessment work), Alresford St. $2,695, 16th St. $10,169, asphalt repaving Wharton St. $36,991, 43rd St. $8,692; from Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., asphalt paving Walnut Lane $9,404, 20th St. $14,547; from Barber Asphalt Co., 239 North 30th St., asphalt repaving Haverford St. $163,952; from Acchione & Caruso, 804 South 12th St., redressed granite block repaving Addison, Clover, Filbert, Ludlow, Manning and St. James Sts. $37,223, from Baton Constr. Co., 1713 Sansom St., Spruce St. (track area) $14,105, 60th St. (track area) $25,128, from Municipal Paving Co., 702 Catharine St., Spruce St. (track area) $51,617, 16th St. $31,497, 17th St. $74,518; from Frank & Graham, 5707 North 7th St., curb and footwork (property owners to pay) 3rd Highway Dist. $9,293; from Philadelphia Shack & Tank Wks., 50 North 23rd St., structural steel for Bridge 260 over Pennsylvania R.R. tracks, at 33rd St. $3,085; from J. Meehan & Son, 916 West Dakota St., ten thousand 4 x 4 in. wood blocks $880; from Union Paving Co., 30th and Locust Sts., improving 3,435 sq.yd. Broad St. and Packer Ave. intersection, $17,183; and from Headley Good Roads Co., Franklin Trust Bldg., 150,000 gal. dust layer (road oil), $11,835.

O., Cincinnati — Comrs. Hamilton Co. Mar. 19, tar bound macadam paving 8,600 sq.yd. School Sect. Rd. from Reemlin Rd. to Harrison Pk., from F. Franz & Sons, North Bend, $19,584; 22,600 sq.yd. Muddy Creek Rd. from Bridgetown Pk. to Ebenezer Rd. and 12,700 sq.yd. Linneman Rd. from Muddy Creek to Neeb Rds., from J. A. Nickoson, Sayler Park Station, $54,254 and $28,669 respectively; 8,200 sq.yd. Livingston Rd. from Blue Rock Pk. to Poole Rd., from J. A. Sloan, 2312 Mound Ave., Norwood, $19,932. Noted Mar. 11.

Ill., Grayslake—City Clerk, paving 25,000 sq.yd. Westerfield Pl., Lake St., Seymour, Park and Center Aves., and various roadways, from Buildrite Constr. Co., 634 Ridgeland Ave., Waukegan, $95,327. Noted Feb. 25.

Texas — State Hy. Comn., H. Moseley, chn., Austin, 1½ in. limestone rock asphalt on gravel and waterbound macadam or

Streets and Roads (Continued)

triple bituminous surface treating 14.23 mi. Highway 72, Federal Aid Project 373-B, from C. C. Moore, Temple, $234,054, engrs. est. $221,000; also 11.07 mi. State Highway 72, State Aid Project 320, from P. Schriewer, Seguin, $143,213, engrs. est. $142,000, both in Lavaca Co. Noted Jan. 21.

Tex., Anderson — R. W. Barry, judge Grimes Co., grading and bridging 11.07 mi. State Highway 45, State Aid Project 621, 26 ft., from Thomas & Ratliff, Rogers, $36,-532, engrs. est. $46,000; also 5.08 mi. State Highway 90, State Aid Project 610, 26 ft., from Womack Constr. Co., Sherman, $27,-108, engrs. est. $37,000. Noted Feb. 18.

Tex., Boston — S. I. Robinson, judge Bowie Co., grading, bridging and gravel surfacing 10.75 mi. State Highway 98, State Aid Project 644, 26 ft., from Burgess & Burgess, New Boston, $36,821. Engrs. est. $43,000. Noted Feb. 18.

Tex., Carthage — T. E. Boven, judge Panola Co., clearing, grubbing, bridging and grading 5.09 mi. Highway 8-A, State Aid Project 636, and 6.47 mi. State Highway 8 from Carthage to Martins Creek, from C. Eppes, San Augustine, $32,655 and $59,159 respectively, engrs. est. $35,700 and $68,700 respectively. Noted Feb. 18.

Tex., Henrietta—Clay Co., from Thurber Constr. Co. & Genl. Constr. Co., F. & M. Bank Bldg., Ft. Worth, rein.-con. paving 10.24 mi. State Highway 50, Federal Aid Project 449-B $250,252, 9.25 mi. same road, Federal Aid Project 449-A $230,398, 7.14 mi. State Highway 5, Federal Aid Project 448-A $174,422, and 6.89 mi. same road, Federal Aid Project 448-B $168,561.

Tex., Liberty—Liberty Co. shell surfacing 5.821 mi. and **(a)** concrete paving **(b)** 1½ in. bitulithic on concrete paving 16.474 mi. State Highway 3, Federal Aid Project 352, Unit 314, from F. M. McElwrath, Corsicana, **(a)** $419,220; and from Dodds & Wedegartner, San Benito, **(b)** $521,855. Engrs. est. $475,000 incl. engineering contingencies.

Tex., Linden — F. E. Hess, Floresville, engr., grading, bridging and gravel surfacing 5.64 mi. Highway 8, Federal Aid Project 457-A, for Cass Co., from P. B. Price & Co., Paris, $59,782. Engrs. est. $60,000.

Tex., Waxahachie — Ellis, Co., grading, bridging, etc. 4.19 mi. State Highway 6, Federal Aid Project 487-C, 26 ft., from Culberhouse & Jones, Sulphur Springs, $20,-366. Noted Dec. 24.

Wash., Seattle—Bd. Pub. Wks., concrete paving, etc., 30,180 sq.yd. Midvale Ave. et al, from R. G. Stevenson, 1327 Northlake Ave., $93,843, engrs. est. $97,759; and 20,-160 sq.yd. Aurora Ave. et al, from McHugh & Coluccio, 517 3rd Ave. N., $56,396, engrs. est. $58,550.

Wash., Seattle—Bd. Pub. Wks., Feb. 26, from Fiorito Bros., 3950 6th St. N. W., improving 32nd Ave. N. W. et al, 2,100 lin.ft. concrete curbing $0.60 per ft., 2,430 lin.ft. concrete guttering $0.25, 160 ft. concrete sidewalks $1.55, 13,200 sq.yd. 8 in. concrete paving $1.80, 30,310 sq.yd. 7 in. concrete paving $1.65, 13,000 cu.yd. sub-grading $0.40, 1,150 sq.yd. asphaltic macadam paving alleys, etc., $1.50, total $103,307. Engrs. est. $121,443.

Calif., Blythe—City Trustees, from Southwest Paving Co., Washington Bldg., Los Angeles, improving Hobsonway, Spring St., etc., 357,005 ft. 1½ in. Durite asphaltic concrete on 3½ in. asphaltic concrete surfacing $0.248 per sq.ft., lighting system $10,250. etc. Noted Mar. 11.

Calif., Los Angeles—Supervs. Los Angeles Co., Mar. 15, from L. J. Turner, 205 East 1st St., improving Woodruff Ave. Impvt. 336, 4,167 cu.yd. excav. $0.475 per cu.yd., 93,688 sq.yd. concrete paving $0.193, etc., total $25,577, engrs. est. $27,344; from H. & P. Constr. Co., Los Angeles, Spencer and Carlyle Sts., Walnut Ave., etc., 1,476 lin.ft. curbing $0.44, 8,703 lin.ft. guttering $0.19, 5,023 lin.ft. sidewalk $0.15, 3,574 cu. yd. earth excav. $0.48, 87,865 sq.ft. 8-6-8 in. concrete paving $0.194, 10,723 sq.ft. 6 in. concrete base $0.178, etc., total $29,873, engrs. est. $32,766.

Calif., San Diego — Common Council, Mar. 15, from D. H. Ryan, 1615 Fern St., improving 26th St. from N St. to Balboa Park, 203,810 sq.ft. 5 in. concrete paving $0.169 per sq.ft., 802 lin.ft. concrete curbing $0.60, 2,593 sq.ft. concrete sidewalks $0.18, etc., total $39,861.

Contracts Awarded

N. Y., Buffalo—Commissioner Pub. Wks., paving and repaving Spring St., to Rock Asphalt Constr. Co., Morgan Bldg., to exceed $300,000. Noted Dec. 3.

N. J., Newark — Repaving Clifford St. from Jefferson St. to Wheeler Point Rd., and Thomas St. from Ave. C to Jefferson St., to Standard Bitulithic Co., 194 Washington Ave., $54,033 and $15,477 respectively; also North 7th St. from 3rd to Bloomfield Aves., to J. B. Gilligan-Casey Co., 972 Broad St., $38,147. Grand total $107,657. Noted Mar. 18.

Pennsylvania—State Hy. Dept., Harrisburg, **(R. means Route and A. means Application)**, to Rockford Constr Co., Rockford, O., improving R. 91, A. 3678, Venango Co., 8,500 cu.yd. excav. at $1 per cu.yd., 31,-847 sq.yd. rein.-con. paving, etc. $2.67, total $109,550; to O B. Bracht, Titusville, R. 354, A. 3605, Beaver Co., 28,300 cu.yd. grading $0.80, and 32,500 sq.yd. rein.-con. paving $2.65, total $136,820; to Sherman & Rhodes, Weissport, A. 3676, Carbon Co., 4,700 cu.yd. excav. $1.50, and 22,664 sq.yd. rein.-con. paving $2.90, total $99,217; to Jones Constr. Co., Salem, O., A. 3325, Beaver Co., 10,200 cu.yd. excav. $1.15, 15,409 sq.yd. rein.-con. paving $2.80, total $78,972; to Gray Bros., Youngstown, O., A. 3592 and 3633, Westmoreland Co., 5,800 cu.yd. excav. $1.05, 18,400 sq.yd. rein.-con. paving $2.85, total $70,380; to Cronin Co, South 18th and Fox Sts., Pittsburgh, A. 3578, Allegheny Co., 16,000 cu.yd. excav. $1, 16,050 sq.yd. rein.-con. paving $3.20, total $84,556; to Ancon Constr. Co., 100 Oakley Rd., Upper Darby, R. 40, Perry Co., 75,932 cu.yd. excav. $0.95, total $131,920; to Schoentag, Inc., Saugerties, N. Y., R. 199, Sect. 3, Schuylkill Co., 106, 312 cu.yd. excav. $0.85, 79,200 sq.yd. rein.-con. paving $3, total $464,211; to Colonial Constr. Co., 901 Arrot Bldg., Pittsburgh, R. 20, Sect. 10, Bradford Co., 76,188 cu.yd. excav. $0.90, 81,878 cu.yd. rein.-con. paving $3.05, total $413,159; to Lord Constr. Co., Hastings, R. 29, Mifflin Co., 57,000 cu.yd. excav. $1, 49,117 sq.yd. rein.-con. paving $3, total $230,773; to Winters Constr. Co., Butler, R. 309, A. 3702, Butler Co., 1,517 cu.yd. excav. $1, 5,150 sq.yd. rein.-con. paving, etc. $3.10, total $23,819; to W H. Murphy & Sons, 2100 State St., Harrisburg, R. 140, A. 3689, Dauphin Co., 21,700 cu.yd. excav. $1, 24,-941 sq.yd. concrete paving, etc. $3, total $114,329; and to M. Bennett & Sons, Indiana, R. 241, Sect. 4, Bradford Co., 200,100 cu.yd. excav. $1, 73,149 sq.yd. rein.-con. paving $3.30, total $543,781. Grand total $2,501,487. Noted Mar. 4 and Mar. 11.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to R. B. Werner, 2313 Walnut St., grading Afton, Faunce and Loney Sts. $9,379, Kingsley St. $802, 12th and Rittner Sts. $1,383, to Belmont Auto Trucking Co., 6118 Pine St., Aldine, Bleigh, Cottage, Erdrick, Faunce, Jackson, Loring, Marple, Napfle, Oakmont, Shelmire, Teesdale, Tudor, Vista and Walker Sts. $90,433, to Morrissey Bros., 4345 North 7th St., Andrews, Georgian, 19th and 20th Sts. $19,-944, to Root Bros., Ridge Ave. and Righter St., Aurania, Bean, Evergreen, Lare, Parker and Summit Sts. $9,266, to Butler & Orlando, 5747 Vine St., Cemetery Ave., Chelwynde, Este, Guyer, Island, Sylmar, 57th, 58th, 65th, 68th, 69th and 74th Sts. $22,556, to J. F. Nolen & Sons, 64 Church Lane, Colonial, Smedley and 16th Sts. $12,-418, to J. H. McKay, 4437 North 9th St., Gates St. $5,681, to T. Conner, 3621 North 5th St., Large and Longshore Sts. $3,382, to McCarrick Bros., 3240 North Fox St., 31st, 34th, Spangler and Westmoreland Sts. $5,253, to L. Dolente, 5122 Master St., 68th St. $12,228; to Barber Asphalt Co., 239 North 30th St., asphalt paving (assessment work) Bowman and Vaux Sts. $316,-112, Sherwood and 69th Sts. $22,079, 21st St. $8,345, Dudley, Hoffman and Wilder Sts. $19,687; to Mack Paving & Constr. Co., Nicetown Lane and Luzerne Sts., asphalt repaving Clarion and Page Sts. $8,466; to Union Paving Co., 30th and Locust Sts., surfacing Terminal and 11th Sts. $139,914; to Eastern Asphalt Co., Penn Bldg., asphalt repaving Susquehanna St. $36,976; to United Paving Co., Real Estate Trust Bldg., redressed granite block repaving (track area) Baltimore St. $10,893, (track area) 16th St. $31,910, to Acchione & Caruso Paving Co., 804 South 12th St., 11th St. $60,825; to Good Roads Equipment Co., 1504 Locust St., repairing Lutz asphalt heaters $7,500; and to West Jersey Sand & Supply Corp., Delaware Ave. and Marlborough St., 2,000 tons Portland cement $17,500. Grand total $606,722. Noted Mar. 18.

Md., Baltimore — Sheet asphalt paving 6,950 sq.yd. Contr. 311, and 12,200 sq.yd. Contr. 310, to Amer. Paving & Contg. Co., Montebello Ave., $32,975 and $32,975; concrete paving 4,160 sq.yd. Contr. 313, and 6,300 sq.yd. Contr. 312, to Arundel Constr. Co., Knickerbocker Bldg., $10,425 and $18,-116. Grand total $94,491. Noted Mar. 18.

Md., Towson — Baltimore Co., Courthouse, concrete paving 1.17 mi. Worthington Ave., and 0.2 mi. Tufton Ave. (Group 2), to H. T. Campbell & Sons Co., Towson, $38,757. Noted Mar. 18.

N. C., Morehead—Morehead Bluffs, Inc., sheet asphalt paving and concrete sidewalks on 22 mi. various streets, to Simmons Constr. Co., Brevard Court, Charlotte. Noted Dec. 17.

Alabama—State Hy. Comn., Montgomery, **(e. e. means engineers estimate)**, top soiling 4 mi. Talladega-Pell City Rd., Talladega Co., and 9.88 mi. Kimbrough-Clark Co. line Rd., Wilcox Co., to Newell Constr. Co., 3828 Ave. A, Birmingham, $34,413 and $66,245 respectively, e. e. $35,000 and $68,-000 respectively; sand clay surfacing 5.25 mi. Gantt-Andulusia Rd., Covington Co., to W. C. McCoy, La Fayette, $24,693, e. e. $25,000; gravel surfacing 9.88 mi. Kimbrough-Clark Co. line Rd., Wilcox Co., to W. A. Taylor, Sylcauga, $56,223, e. e. $57,-000; 2 in. bituminous on 8 in. gravel surfacing 6.75 mi. Wetumpka Highway, Montgomery Co., to R. G. Lassiter, Montgomery, $142,116, e. e. $145,000, all above 18 ft. Grand total $323,690. Noted Feb. 11 and Mar. 4.

Miss., Rosedale — For 6 in. concrete paving 44,986 sq.yd. various streets, to C. E. Philpott, Pine Bluff, Ark., $86,000. Noted Feb. 18.

O., Cleveland — Stone sidewalks in Northerly, Southerly, Westerly and West Park Dists., to Ohio Quarries Co., Union Trust Bldg., $109,906. Noted Feb. 18.

Ind., Indianapolis — Bd. Comrs. Marion Co., Courthouse, improving 46th St. in Washington Twp., 11,700 cu.yd. earth excav., 11,538 sq.yd. concrete paving, etc., to Hutchinson Constr. Co., 415 Guaranty Bldg., $33,850. Engrs. est. $34,150. Noted Feb. 18.

Michigan — Jackson Co., graveling 1.75 mi. road in Blackman Twp. and 2.6 mi. road in Concord Twp., to Kline Bros., Mendon, $16,207; also 2 mi. in Rives Twp. and 3.03 mi. in Spring Arbor and Sandstone Twps., to Hudson & Coons, East Lansing, $15,976. Noted Mar. 18.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete surfacing 5.08 mi. Route 1, Sect. 38, Johnson Co., to W. Loughs & Son, Marion, $96,240, 10.6 mi. Route 1, Sects. 39 and 40, Massac Co., incl. 3.94 mi. gravel surfacing, to Mitchell Constr. Co., Marion, $114,028; widening Route 3, Sect. 50, village of Whitehall, Greene Co., to Devine Constr. Co., Watseka, $25,967. Grand total $236,-235. Noted Jan. 14 and Mar. 4.

Ill., Kewanee—For 100,000 gal. road oil on various streets, to Independent Oil Co., Kewanee, at $0.0534 per gal.

Wis., Chilton—A. J. Pfeffer, city clk., 2 course concrete paving various streets, to Franz Radloff Co., Plymouth, $37,341. Noted Mar. 18.

Wis., Kenosha—C. M. Osborn, city mgr., paving various streets, to Bryant Paving Co., 807 Blackhawk Bldg., Waterloo, Ia., asphaltic concrete $54,184, rein.-con. $103,-749, and sheet asphalt $144,854. Grand total $302,787. Noted Mar. 18.

Wis., Milwaukee—Dept. Pub. Wks., concrete paving 5 alleys, to Kroening Constr. Co., 39th Ave. and Mitchell St., $21,175; 4 alleys, to N. Harris, 417 Juneau Pl., $11,-363; and 8 alleys, to Tex Constr. Co., 446 68th Ave., $27,401. Grand total $59,939.

Wis., Milwaukee—Dept. Pub. Wks., concrete paving 14 alleys, to Parkinson Constr. Co., 422 27th St., $31,604; 1 alley, to Milwaukee General Constr. Co., 427 Mitchell St., $637; 1 alley, to Kroening Constr. Co., 39th Ave. and Mitchell St., $2,258; and 1 alley, to J. C. Bluhm & Son, 1298 Achilles Pl., $6,437. Grand total $40,936. Noted Feb. 25.

Iowa—State Hy. Dept., Ames, **(F. A. P. means Federal Aid Project and P. R. P. means Primary Road Project)**, grading 7.83 mi. F. A. P. 197, Allamakee Co., to J. C. Parquette, 314 Southeast 5th St., Des Moines, $25,222, 3.33 mi. F. A. P. 44-B, E and F, Cass Co., to C. Nelson, Omaha, Neb., $20,433, and 3.13 mi. P. R. P. 313-D, Clark Co., to J. H. Miller & Sons, Monroe, $19,410; gravel surfacing 7.163 mi. F. A. P. 179-A, B and C, Guthrie Co., to M. E. Hendrick, Scranton, $5,616, and 9.44 mi. F. A. P. 86, Jones Co., to Interstate Constr. Co., Swea City, $19,192. Grand total $89,-873. Noted Feb. 25.

Ia., Waukon — Allamakee Co., to J. C. Parquette Constr. Co., Southwest 15th and Market Sts., Des Moines, improving roads, 84,598 cu.yd. excav. at $0.273 per cu.yd., 990 cu.yd. excav. $0.35, 704 ft. 15 in. culvert labor $0.60, 176 ft. 18 in. $0.70, and 74 ft. 24 in. $1.

Minn., St. Paul—A. E. Eggert, city purch. agt., approximately 7,473 sq.yd. brick on 7 in., 1,867 sq.yd. brick on 8 in. and 7,135 sq.yd. sheet asphalt paving South Robert St., to Fielding & Shepley, 216 University Ave., $63,449. Noted Mar. 18.

Kan., McPherson—McPherson Co., grading, etc., 7.817 mi. Federal Aid Project 278-A, 28 ft., to Campbell & Lockenmaier, Miltonville, $20,318; drainage structures and 3 bridges, to Shuss and Henderson,

Streets and Roads (Continued)

Larned, $9,495 and $18,203 respectively. Noted Jan. 28.

North Dakota—State Hy. Dept., Pierre, gravel surfacing, etc., Federal Aid Project 171, Barnes Co., to Tobin & Maloney, Madison, S. D., $10,032; grading Federal Aid Project 267, and grading, concrete paving, etc., Federal Aid Project 268-B, both in Cass Co., to W. H. Noel, Jamestown, $24,278 and $36,069 respectively. Grand total $70,379.

N. D., Valley City — C. W. Nelson, aud. Barnes Co., gravel surfacing 12 mi. Federal Aid Project 221-A and B, to Tobin & Maloney, Madison, S. D., $28,061; and 13 mi. Federal Aid Project 233-C., to W. Schultz, Fergus Falls, Minn., $28,781.

N. D., Wahpeton — G. J. Fisher, aud. Richland Co., grading 113,663 cu.yd. Abercrombie-Dwight Rd., Federal Aid Project 285-B, to M. E. Lien Constr. Co., Veblen, S. D., $40,322.

Mo., Maryville—M. C. Smith, city clk., grading, curbing, guttering and 7 in. rein.-con. paving 10,125 sq.yd. Walnut and 5th Sts., to Cook-O'Brien Constr. Co., 430 Railway Exch. Bldg., Kansas City. Noted Mar. 4.

Mo., St. Louis—Improving new Concordia Seminary Campus at De Mun and San Bonita Aves., near here, 3,200 sq.yd. concrete sidewalks, 9,500 sq.yd. amiesite on concrete paving, 9,200 ft. curbing and guttering, etc., to A. Fleschner, 7055 Winona Ave. Engrs. est. $44,000.

Ark., Warren—Grading, curbing, concrete paving, etc., 8 blocks Vine, Turner, Central and Railroad Sts., Dist. 3, to Cook & Ransome, Ottawa, Kan., $49,095.

Tex., Abilene — Warrenite bitulithic paving 6 blocks 5th St. from Peach to Boyce Sts., and Boyce St. from South 6th to South 5th Sts., 45 ft., to West Texas Constr. Co., $2.27 per yd., total approximately $28,000.

Tex., Anderson—Grimes Co., grading and bridging 11.07 mi. State Aid Project 621, to Thomas & Ratliff, Rogers, $94,958; also 5.088 mi. State Aid Project 610, to Womack Constr. Co., Sherman, $27,108. Noted Jan. 28.

Tex., Carthage — T. E. Boven, judge Panola Co., grading and bridging State Highway 8, State Aid Project 636, to C. Epps, P. O. Box 505, San Augustine, $32,-565. Noted Mar. 25.

Tex., Liberty—Liberty Co., concrete paving 16.71 mi. Highway 3, Federal Aid Project 352, Unit 4, and 5.82 mi. shell surfacing same road, to F. P. McElwrath, Corsicana, $419,220.

Tex., Memphis—For 2½ in. brick on 4 in. concrete paving various streets, to Panhandle Constr. Co., Lubbock, $181,550.

Tex., Stephenville — Erath Co., grading, bridging and sledged stone paving 4.96 mi. Highway 10, State Aid Project 563-B, 18 ft., to McClung Constr. Co., F. & M. Bank Bldg., Ft. Worth, $40,588. Engrs. est. $47,-000. Noted Mar. 11.

Tex., Waxahachie — Ellis Co., grading, bridging, etc., 4.19 mi. State Highway 6, Federal Aid Project 489-C, 26 ft., to Allen & Hughes, Reiger St., Dallas, $21,565.

Wash., Hoquiam — City Comn. paving Emerson Ave. et al., to Grays Harbor Constr. Co., Hoquiam, $74,192. Engrs. est. $75,000.

Wash., Longview—Curbing, sidewalks and paving streets in L. I. D. 17, to Olympic Constr. Co., Longview, $25,722.

Wash., Montesano—Grays Harbor Co., improving North River Highway, 27,242 cu. yd. grading, 5,500 cu.yd. gravel surfacing, etc., to Peck & Einerson, Hoquiam, $41,-000. Engrs. est. $42,000.

Wash., Seattle — Concrete paving, etc., Corliss Ave. et al, to Fiorito Bros., 3950 6th St. N. W., $44,811, engrs. est. $50,356; also North and West 76th St., to J. L. Smith, 304 West 36th St., $31,981, engrs. est. $46,142.

Wash., Tacoma — City Comn., concrete paving South 31st and 35th Sts., Pacific Ave. et al, to J. Warter, Sr., 631 Fife St., $51,673. Engrs. est. $68,702.

Calif., Colusa—Colusa Co., to Force-Currigan & McLeod, Syndicate Bldg., Oakland, asphaltic concrete paving 507,600 sq.ft. East Side Rd., $50,515; to Valley Paving & Constr. Co., Visalia, subgrading and asphaltic concrete paving 293,000 sq.ft. Prize City College Rd. $31,937, 1½ in. asphaltic concrete paving 293,000 sq.ft. Prize College City Rd. $23,440, also grading, subgrading and 4½ in. asphaltic concrete paving 182,-200 sq.ft. Grimes-Knights Landing Rd., $29,527. Grand total $135,419. Noted Jan. 28.

Calif., Fullerton—For 6 in. paving 31,000 sq.ft. and 5 in. asphaltic concrete paving 67,000 sq.ft. South Lawrence and East Ash Aves., etc., to Griffith Co., Railway Bldg., Los Angeles, $42,215. Noted Mar. 4.

Calif., Glendale—City Trustees, grading, walks, curbing and concrete paving, etc., Canyon Court, Canyon and Luton Drives, etc., to E. L. Fleming, 144-A South Brand Blvd., $45,385. Noted Mar. 18.

Calif., Los Angeles—Bd. Pub. Wks., curbing, concrete paving, etc. portion of Kenilworth Ave. between Moreno Dr. and August St., to H. A. McCray, Amer. Bank Bldg., $138,015; also improving 7th St. between Gaffey and Meyler Sts., to Griffith Co., Railway Bldg., Fresno. Noted Mar. 11.

Calif., Los Angeles—To Griffith Co., Railway Bldg., walks, and concrete paving, etc., Glassell Ave. between West View Ave. and Verdugo Rd., $286,295; to H. A. McCray, 129 West 2nd St., grading and concrete paving Kling St. $11,730, grading, curbing, guttering and concrete paving Sycamore Ave. $10,843, and sidewalks, etc., on Oregon St. $6,333. Grand total $315,201.

Calif., Los Angeles — Supervs. Los Angeles Co., curbing, guttering, grading, concrete paving, etc. 79,980 sq.ft. Live Oak Ave., to Griffith Co., 502 Los Angeles Ry. Bldg., $12,950; also 9,756 sq.ft. Orchard and Harvard Aves., to G. A. Sheppard, 1417 Dana St., $3,809. Noted Feb. 11.

Calif., Los Angeles—Grading 50,000 yd. North Main St. between 1st and Temple Sts., to Los Angeles Rock & Gravel Co., 1735 North Main St., $0.63 per yd.

Calif., San Diego—Common Council improving Goldfinch St. and Ft. Stockton Dr., to G. R. Daley, 4430 Boundary St., $29,-655; also Upas, Palm, Nutmeg Sts., etc., to L. J. Turner, 205 East 1st St., Long Beach, $113,104. Noted Mar. 18.

Calif., Walnut Creek — City Trustees, grading, curbing, guttering and 5 in. concrete paving 150,000 sq.ft. and 7 in. asphaltic macadam paving 136,500 sq.ft. various streets, to G. W. Cushing, 2005 Roosevelt Ave., Richmond, $69,860. Noted Mar. 11.

Quebec — Provincial Government, Quebec, opening 40 mi. road from Mecamik to Rouyn Mines, to J. Forten, Mecamik and Quebec. Engrs. est. $100,000.

Alberta — Dept. Pub. Wks., Edmonton, grading, gravel surfacing road between Coleman and Crows Nest Lake, to Broley & Kordus, Edmonton. Engrs. est. $40,000.

B. C., North Vancouver — Municipality, grading and paving 14,100 ft. Centre Rd., to A. B. Palmer, Co., Ltd., Vancouver. Engrs. est. $75,000.

B. C., North Vancouver — Grading and paving 6 in. concrete paving 14,100 ft. on Center Rd. and St. Denis Ave., to Cotton Co. Ltd., False Creek Yards, Vancouver, $79,690. Engrs. est. $80,000.

B. C., Point Grey—Municipality, bituminous concrete and solid concrete, also concrete and asphalt topping various streets, to Cotton Co. Ltd., False Creek Yards, Vancouver, $42,000. Noted Feb. 4.

B. C., Point Grey—Curbing, and 4 mi. sidewalks on 10th Ave. leading to University Hill Dist., to A. B. Palmer & Co., 736 Granville St., Vancouver, $42,000.

Buildings—Commercial

Proposed Work

Me., Norway — BANK — Norway Natl. Bank having plans prepared by H. Coombs, 11 Lisbon St., Lewiston, 2 story and basement, rein.-con., brick and stone, plain foundation. $150,000.

N. H., North Conway—HOTEL—H. Randall, plans rebuilding hotel, recently destroyed by fire. $200,000. Engineer and architect not selected.

Mass., Boston — APARTMENT — A. Shapiro, 73 Cornhill St., having sketches made by Silverman, Brown & Heenan, 51 Cornhill, 4 story and basement, brick, Maple St. $200,000.

Mass., Boston — BATH HOUSE — City, Dept. Pub. Buildings, plans new bath house, L St. Beach. $380,000. Engineer and architect not selected.

Mass., Boston — GARAGE — St. James Building Corp., St. James Ave., plans 8 story, rein.-con. and steel, Park Sq. near St. James Ave. To exceed $150,000. Engineer and architect not selected.

Mass., Boston—HOME—Home for Italian Children, 1125 Center St., Jamaica Plain, having plans prepared by W. W. Drummey, 80 Boylston St., 2 story and basement, brick home. $150,000.

Mass., Boston—HOSPITAL—City, Hospital Dept., plans enlarging Relief Hospital, Haymarket Sq. To exceed $150,000. Engineer and architect not selected.

Mass., Boston — MUNICIPAL — City, Dept. Pub. Buildings, plans municipal building, Franklin Park-Franklin Field Dist. $400,000. Engineer and architect not selected.

Mass., Boston—Y. M. C. A., 316 Huntington Ave., plans Y. M. C. A. building, Dist. 1. $500,000. Engineer and architect not selected.

Mass., Dorchester (Boston P. O.) — MUNICIPAL—City, Dept. Pub. Bldgs., Boston, plans municipal building, Fields Corner Dist., here. To exceed $[illegible]. Engineer and architect not selected.

Mass., East Boston (Sta. Boston) — BATH HOUSE—City, Dept. Pub. Buildings, Boston, plans bath house, Jeffries Point, here. $300,000. Engineer and architect not selected.

Mass., Easthampton—EXCHANGE—New England Telephone & Telegraph Co., 50 Oliver St., Boston, plans 2 or more story, brick and stone, Chapman Ave. $150,000 or more. Company's engineer. Architect not selected.

Mass., Everett (br. Boston) — BANK — Everett Natl. Bank, 453 Bway., plans bank, Bway. and Cottage St. To exceed $150,000. Engineer and architect not selected.

Mass., Everett (Boston P. O.)—CLUB—Fraternal Building Assn., E. B. Forsland, chn. building com., 28 Reynolds Ave., having plans prepared by O. Helrich, 129 Buckman St., 2 story and basement, 40 x 60 x 100 ft., brick and timber, plain foundation, Bway. and Hosmer St. $150,-000.

Mass., Everett (br. Boston) — WAREHOUSE—Outlet Furniture Co., 366 Bway., plans warehouse, Bway. $150,000 or more. Engineer and architect not selected.

Mass., Framingham—HALL—Town, c/o Ashton, Huntress & Alter, archts., 477 Essex St., Lawrence, plans 2 or more story, brick town hall and memorial auditorium. $150,000-$175,000.

Mass., Medford (br. Boston) — CITY HALL — City, Bd. Aldermen, plans city hall, Mystic Valley Parkway and Main St. $200,000. Engineer and architect not selected.

Mass., Medford (br. Boston)—FIRE STATION—City, Bd. Aldermen, plans brick fire station, 4th St. $150,000 or more. Engineer and architect not selected.

Mass., Somerville (Boston P. O.) — STORE and OFFICE — L. Giardini, 167 Summer St., Boston, plans 2 or more story, brick and stone store and office building. To exceed $150,000. Engineer and architect not selected.

Mass., Somerville (Boston P. O.)—Y. M. C. A. plans raising $240,000 funds rebuilding 2 or more story and basement, recently destroyed by fire. Engineer and architect not selected.

Mass., Spencer — TOWN HALL — Town, Bd. Selectmen, plans rebuilding town hall, recently destroyed by fire. $200,000. Engineer and architect not selected.

Mass., Springfield — HOTEL — Hotel Bridgeway, 50 Bway., having plans prepared by Huestis & Huestis, 145 Chestnut St., hotel addition, Bway. $150,000.

Mass., Wellfleet—CLUB HOUSE, etc.—Chequesset Club having sketches made by D. Baker, 1011 Chestnut St., Phila., Pa., club house and golf course. $150,000 or more.

R. I., Providence—BUSINESS—City Hall Hardware Co., 150 Washington St., had plans prepared 4 story, brick and steel, Snow and Washington Sts. $225,000. Private plans.

Conn., Norwich—BANK—Dime Savings Bank, having plans prepared by Morgan French & Co., engrs. & archts., West 44th St., New York City, brick and steel, Bway. $150,000 or more. Noted Jan. 14.

N. Y., Buffalo—HOSPITAL—Erie Co., C. B. Lynch, superv., City Hall, plans hospital. To exceed $500,000.

N. Y., Buffalo—HOSPITAL—Jewish Hospital Assn. of Buffalo, 1067 Bway., plans hospital, Niagara Falls Blvd. $650,000.

N. Y., Buffalo — HOSPITAL — Millard Fillmore Hospital, Lafayette Ave., plans new maternity building, clinic, laboratory, addition to nurses home, and power and laundry plant, Lafayette Ave. $1,000,000.

N. Y., Buffalo—THEATRE—Erie Amusement Co., 887 Bway., plans brick and stone theatre. $175,000.

N. Y., New York — APARTMENTS — Owner, c/o G. F. Pelham, engr. and archt., 200 West 72nd St., having plans prepared two 6 story, 104 x 123 ft., and 100 x 140 ft., brick, steel and stone, plain foundations, 218th and Seaman Ave. $350,000 each.

N. Y., New York — DEPARTMENT STORE—Bloomingdale Bros., 59th St. and Lexington Ave., having preliminary plans prepared by Starrett & Van Vleck, engrs. and archts., 393 7th Ave., department store 59th St. and Lexington Ave. $7,000,000.

N. Y., New York—HOTEL—Plaza Hotel, West 58th St., having plans prepared by Warren & Wetmore, engrs. and archts., 16 East 47th St., brick, steel and stone addition, plain foundation, West 58th St. $250,000.

N. Y., New York—HOTEL—Tenth Holding Corp., c/o R. T. Lyons, engr. and archt.,

HIGHWAY—IDAHO

Bids were opened by Department of Public Works, Bureau of Highways, for grading and draining 7.68 mi. of North and South Highway between New Meadows and Whitebird, Idaho County, from (A) E. A. Webster & Co., Spokane, Wash. (awarded contract); (B) J. A. Terteling & Sons, Moscow; (C) Campbell Construction Co., Sunnyside, Wash.; (D) F. Knowles, Centralia, Wash.; (E) Toller & Drummey, Downey. The unit bids are as follows:

	A	B	C	D	E
21 acres clearing and grubbing	$150 00	$50 00	$15 00	$80 00	$300 00
479 cu.yd. excavation (structures) solid rock	1 50	2 00	2 50	3 00	3 50
89,729 cu.yd. excavation, unclassified (roadway)	.79	.83	.89	.89	.88
2,000 cu.yd. selected backfill	.60	.85	.50	1 00	.50
55 cu.yd. excavation (structures) earth	.50	1 50	.75	2 00	2 50
35,485 sq.yd. overhaul	.05	.05	.04	.05	.05
133 22 cu.yd. cement concrete, class "A", 1:2:4 mix	25 00	30 00	28 00	30 00	32 00
45 96 cu.yd. cement concrete class "B", 1:2½:5 mix in culvert headwalls	27 00	28 00	24 00	28 00	30 00
54 40 cu.yd. cement concrete class "B", 1:2½:5 mix in retaining walls	23 00	28 00	24 00	28 00	30 00
18,163 lb. metal reinforcement	.08	.10	.10	.10	.11
100 cu.yd. hand placed rip rap	3 50	3 00	2 00	2 00	3 50
676 lin.ft. 18 in. c.i. pipe, unload, haul and place	.60	1 00	.50	.75	.60
518 lin.ft. 24 in. c.i. pipe, unload, haul and place	.90	1 50	.75	1 00	.70
114 lin.ft. 30 in. c.i. pipe, unload, haul and place	1 25	2 00	1 00	1 25	.80
950 lin.ft. guard rail, type "A" (alternate)	.90	.85	1 00	1 00	.70
950 lin.ft. guard rail, type "E" (alternate)	1 00	.85	1 00	1 00	.70
Extended totals	$87,251	$91,451	$93,778	$97,801	$100,995

Buildings—Commercial (Continued)

342 Madison Ave., having plans prepared 21 story, brick, steel and stone, plain foundation, Madison Ave. and 49th St.

N. Y., New York—LOFT—E. Lieberman, c/o G. and E. Blum, engr. and archt., 415 Lexington Ave., having plans prepared 14 story, brick, steel and stone, plain foundation, West 30th St. $800,000.

N. Y., New York—LOFT—L. Mintner, c/o G. and E. Blum, engr. and archt., 415 Lexington Ave., having plans prepared 23 story, brick, steel and stone, plain foundation, 28th St. and 7th Ave.

N. Y., New York—LOFT and OFFICE—Owner, c/o Sommerfield & Sass, engrs. and archts., 31 Union Sq., having plans prepared 7 story, brick, steel and stone, plain foundation, Canal and Forsythe Sts. $500,000.

N. Y., New York—MEMORIAL—Dept. Parks, Arsenal Bldg., Central Bldg., 46th St. and 5th Ave., having plans prepared by J. R. Pope, 542 5th Ave., Theodore Roosevelt Memorial, brick, steel and stone, plain foundation, Central Park and 79th St. $2,500,000. E. C. Seelye, 101 Park Ave., structural engr.

N. Y., New York—OFFICE—A. Wilson, c/o Sloane & Robertson, engrs. and archts., 441 Lexington Ave., having plans prepared brick, steel and stone, plain foundation, 284 Madison Ave. $900,000.

N. Y., New York—STORE and LOFT—J. Thorp, c/o Buchman & Kahn, engrs. and archts., 49 West 45th St., soon takes bids brick, steel and stone, plain foundation, 24 West 57th St. $350,000.

N. J., Jersey City—Y. M. H. A., Newark Ave., soon takes bids brick, steel and stone community center, plain foundation, Bergen Ave. $600,000. N. Welitoff, 294 Washington Ave., engr. and archt.

N. J., Newark—AUDITORIUM and OFFICE—Arena & Amusement Co., Inc., c/o H. Harris, engr. and archt., Chamber of Commerce Bldg., having plans prepared 30 story, brick, steel and stone, plain foundation, Canal St. $4,000,000.

Pa., Jersey Shore—BANK—Jersey Shore Trust Co., Front and Main Sts., plans 3 story and basement, 40 x 100 ft., stone, South Main St. $150,000.

Pa., Lewistown—LODGE—F. & A. M. 370, c/o D. E. Miller, secy., 168 Pannebaker Ave., having plans prepared by Hersh & Sholler, Commerce Bldg., Altoona, 3 story and basement, 80 x 100 ft., stone, brick and steel, Main St. $200,000. Noted Feb. 4.

Pa., Phila.—BANK and OFFICE—S. Clements, Packard Bldg., having plans prepared by L. B. Rothschild, 215 South Broad St., 6 story and basement, 50 x 118 ft., rein.-con., brick, stone and steel, plain foundation, 6th and Walnut Sts. Brown Bros., 30 Chestnut St., lessee.

Pa., Phila.—STORE—E. L. Rothschild, archt., Bankers Trust Bldg., soon lets contract 3 story and basement, 40 x 90 x 220 ft., rein.-con., brick and steel, plain foundation, 5611-13 North 5th St., for Z. Rosenfeld, 2900 North 5th St.

Pa., Phila.—THEATRE—R. Benckert, archt., Bellevue Court, Phila., and H. J. Kropp, archt., 1 West 47th St., New York City, N. Y., soon lets contract 1 story, mezzanine and balcony, 114 x 180 ft., rein.-con., brick and steel, plain foundation, Cherry St. between Watt and Juniper Sts., for Juniper & Cherry St. Corp., c/o architect.

Pa., South Williamsport (Williamsport P. O.)—THEATRE—T. R. Adams, 366 Market St., plans 2 story and basement, 73 x 100 ft., brick and steel, Southern Ave. $150,000.

Pa., Wayne—APARTMENT—J. C. Nortch, archt., Ardmore, preparing plans 4 story and basement, 235 x 310 ft., rein.-con., brick and steel, plain foundation, here. Owner's name withheld.

Md., Baltimore—BANK—Federal Reserve Bank of Richmond, South and Redwood Sts., plans 2 story and basement, 100 x 125 ft., stone bank, Calvert and Lexington Sts. $1,000,000. Engineer and architect not selected.

Md., Baltimore—THEATRE and STORE—Stanley-Crandall Co., H. M. Crandall, vice pres., Wash., D. C., plans rein.-con., brick and steel, plain foundation, Howard St. near Franklin St. $1,500,000. Engineer and architect not selected.

D. C., Wash.—BANK, STORE and OFFICE—Washington Loan & Trust Co., 9th and F Sts. N. W., having plans prepared by A. B. Heaton, Maryland Bldg., bank, store and office building addition. $500,000.

D. C., Wash.—HOTEL and STORE—City Central Corp., c/o T. W. Lamb, engr. and archt., 644 8th Ave., New York City, having plans prepared brick, steel and stone, plain foundation, 10th and D Sts., here. $1,500,000.

Fla., Coral Gables—APARTMENT—Urmey Arms, Inc., W. N. Urmey, mgr., had plans prepared by P. E. Paist, Coral Gables, 25 story co-operative apartment, Segovia Blvd., Biltmore and Coral Ways. $12,500,000.

Fla., Hollywood—APARTMENT-HOTEL—Stettler Promotion Corp., c/o E. Weyland, archt., 114 Grand Ave., Milwaukee, Wis., having plans prepared 5 story, 125 x 157 ft., brick and concrete building. $250,000.

Tenn., Cleveland—HOTEL—Chamber Commerce having preliminary surveys made hotel. $150,000. H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O., engr.

O., Akron—HOTEL—Portage Hotels Co., c/o Essenwein & Johnson, archts., Ellicott Sq. Bldg., Buffalo, N. Y., having plans prepared hotel, here. To exceed $500,000.

O., Cleveland—COMMERCIAL and APARTMENT—M. Weinberg, 7807 Cedar Ave., had plans prepared by A. B. Sylvanus, 6007 Euclid Ave., 3 story and basement, 60 x 185 ft., brick and timber, St. Clair and Glenside Aves. $150,000.

O., Cleveland—HOTEL—Paul Bros., c/o G. J. Paul, Fidelity Mortgage Bldg., having preliminary plans prepared by G. Ebeling, 732 Prospect Ave., 10 story and basement, rein.-con., brick and steel, East 6th St. and Superior Ave. $1,000,000.

O., Columbus—RESTAURANT—Maramor Co., 112 East Broad St., had plans prepared by Howell & Thomas, 4500 Euclid Ave., Cleveland, 2 story and basement, 61 x 187½ ft., concrete and brick, 5th and Broad Sts. $150,000.

O., Dayton—HOTEL—J. F. Gibbons plans remodeling 8 story building into hotel, Ludlow St. $150,000. Engineer and architect not selected.

O., Youngstown—OFFICE—Truscon Steel Co. having plans prepared by A. Kahn, Marquette Bldg., Detroit, Mich., and soon takes bids 3 story and basement, brick and steel, Albert St. $200,000.

Ind., Indianapolis—APARTMENT—H. L. Moody & Co., 3376 College Ave., had plans prepared by George & Zimmerman, 501 Meyer-Kiser Bank Bldg., 83 x 104 ft., brick and rein.-con., Maple Rd. and New Jersey St. $155,000.

Mich., Birmingham—THEATRE—Briggs Investment Co., Detroit, c/o C. H. Crane & E. Kiehler, archts., 542 Griswold St., Detroit, having plans prepared 2 story and basement, rein.-con., brick and steel, plain foundation. $250,000.

Mich., Detroit—Y. M. C. A., A. G. Studer, secy., Y. M. C. A. Bldg., having plans prepared by Architectural Bureau Y. M. C. A., 2 West 45th St., New York City, 4 story and basement, 150 x 150 ft., rein.-con., brick and steel, plain foundation, incl. swimming tank, Dix Ave. $500,000.

Mich., Grosse Pointe (br. Detroit)—CLUB HOUSE—Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., Detroit, take bids about Mar. 31, 3 story and part basement, 73 x 157 ft., rein.-con., brick and steel, plain foundation, here, for Country Club of Detroit, Grosse Pointe Farms. $300,000. Noted Nov. 26.

Ill., Chicago—APARTMENT HOTEL—M. M. Fishman, archt., 11 South La Salle St., takes bids about Apr. 18, 6 and 7 story, 50 x 150 ft., rein.-con., brick and terra cotta, Winthrop Ave. in 6300th Blk. $400,000. Owner's name withheld.

Ill., Chicago—APARTMENT—Syndicate, c/o D. W. F. Turbyfill, archt., 40 North Dearborn St., having plans prepared 11 story, 75 x 150 ft., brick and terra cotta, Fargo Ave. near Sheridan Rd. $700,000.

Ill., Chicago—APARTMENT HOTEL—H. Zook, 1209 East 55th St., having plans prepared by T. R. Bishop, 35 South Dearborn St., and takes bids in April or May, 12 story, 150 x 150 ft., apartment hotel, 5230-44 Sheridan Rd. $3,500,000.

Ill., Chicago—CLUB—Midway Athletic Club, 1180 East 63rd St., having plans prepared by N. M. Dunning, 25 East Jackson Blvd., and J. Eberson, associated archt., 212 East Superior St., 12 or 13 story, 150 x 200 ft., club, incl. gymnasium, swimming pools, etc., Midway and Stoney Island Aves. $3,200,000.

Ill., Chicago—THEATRE, STORE and APARTMENT—R. Levine & Co., 822 West 70th St., take bids about Apr. 1, 3 story, rein.-con., brick, steel and terra cotta, Grand Ave. and Neva Aves., for Montclair Building Corp. $750,000. Noted Nov. 12.

Ill., Urbana—ARMORY—University of Illinois soon takes bids 2 story and basement, concrete, brick and stone armory addition. $425,000. J. M. White, 256 Administration Bldg., archt.

Wis., Kenosha—CLUBHOUSE—F. O. E. Lodge 1055, C. Ryan, Pub. Serv. Bldg., chn. building com., plans 2 story and basement, 100 x 102 ft., rein.-con. and brick addition, plain foundation. $150,000. Lindl & Schutte, 82 Wisconsin St., Milwaukee, archts.

Wis., Kenosha—EXCHANGE—Wisconsin Telephone Co., 418 Bway., Milwaukee, having plans prepared by Eschweiler & Eschweiler, 210 Mason St., Milwaukee, 2 story and basement, 102 x 120 ft., rein.-con. and brick, plain foundation, Congress St., here. $150,000.

Wis., La Crosse—HOTEL—C. A. and E. D. Hunt, 3rd and State Sts., having plans prepared by O. J. and R. E. Sorensen, 226 Main St., remodeling 3 story, brick hotel. $150,000.

Wis., La Crosse—HOTEL—Owner, c/o A. F. John, 120 Wisconsin St., Milwaukee, having preliminary plans prepared by M. Tullgren & Sons, 9 Waverly Pl., Milwaukee,

Buildings—Commercial (Continued)

8 story and basement, rein.-con. and brick, plain foundation, here. $500,000.

Wis., La Crosse — OFFICE and THEATRE—Cooper Amusement Co., 303 Main St., having plans prepared by O. J. and R. E. Sorensen, 226 Main St., 5 story and basement, 77 x 180 ft., rein.-con. and brick, plain foundation, 5th St. $275,000.

Wis., Madison — HOSPITAL — Methodist Hospital, 303 West Washington Ave., having plans prepared by J. R. and E. J. Law, 1st Central Bldg., 6 story and basement, 48 x 176 ft., rein.-con., brick and steel, plain foundation. $500,000. Noted Sept. 18.

Wis., Milwaukee — APARTMENT and STORE—I. Miller, 114 Grand Ave., having plans prepared by J. Leiser, 105 Wells St., 8 story and basement, rein.-con., brick and steel, plain foundation, Wells and 13th Sts. $500,000.

Wis., Milwaukee—APARTMENT—G. E. Zimmermann, 3402 Grand Ave., plans 80 x 200 ft., brick and concrete, plain foundation, Grand Ave. $250,000. Engineer and architect not selected.

Wis., Milwaukee — BUSINESS — A. R. Munkwitz, 177 Muskego Ave., had plans prepared by Kirchhoff & Rose, 210 Sycamore St., 5 story and basement, 75 x 120 ft., rein.-con. and brick, plain foundation, Mason and Milwaukee Sts. $225,000.

Wis., Milwaukee—DORMITORY—Beldon Realty Co., c/o A. J. Kenney, archt., 513 Van Buren St., having plans prepared 3 story and basement, 62 x 110 ft., brick and tile, plain foundation, Clybourn St. $150,000.

Wis., Milwaukee — LODGE — Pythian Castle, Inc., 464 11th Ave., plans 2 story and basement, 122 x 126 ft., rein.-con. and brick, plain foundation, National Ave. $150,000. R. E. Oberst, 128 Grand Ave., archt. Noted Feb. 18.

Wis., Milwaukee — RECREATION and BUSINESS — M. L. Annenberg Co., 425 East Water St., having preliminary plans prepared by Dick & Bauer, 811 State St., 3 story and basement, 135 x 145 ft., rein.-con. and brick, plain foundation, 27th St. $250,000.

Wis., Milwaukee—WAREHOUSE—Palmolive Co., 42 4th St., having plans prepared 8 story, 68 x 142 ft., rein.-con., brick, plain foundation, Fowler St. Lockwood, Greene & Co., 400 North Michigan Blvd., Chicago, Ill., engrs.

Wis., Waukesha — RECREATION and APARTMENT—H. C. Hengels, archt., 445 Milwaukee St., Milwaukee, preparing plans 4 story and basement, 62 x 130 ft., rein.-con., brick and steel, plain foundation. $165,000. Owner's name withheld.

Wis., Waupun — CITY HALL — R. Zimmermann, city clk., plans 3 story and basement, rein.-con. and brick, plain foundation. $150,000. Engineer and architect not selected.

Wis., Oshkosh — BANK and OFFICE — First Natl. Bank, Main and Washington Sts., had plans prepared by Hoggson Bros., 38 South Dearborn St., Chicago, Ill., 8 story and basement, 92 x 125 ft., rein.-con., brick and stone, plain foundation. $800,000. Noted Dec. 10.

Ia., Newton—OFFICE and THEATRE—F. L. Maytag, c/o Maytag Co., Newton, had plans prepared by H. Raeder, 20 West Jackson St., Chicago, Ill., 5 story and basement, 68 x 133 ft., rein.-con., brick, tile and terra cotta addition to hotel (now under construction). $250,000.

Kan., Kansas City—THEATRE—E. J. and F. G. Gruble, 546 Minnesota Ave., plans fireproof theatre. $500,000. Engineer and architect not selected.

Neb., Hastings—HOTEL and THEATRE—G. L. Fisher, archt., 1437 City Natl. Bank Bldg., Omaha, soon takes bids 3 story (ultimately 5 story) and basement, 120 x 154 ft. hotel, incl. 1 story and balcony, 68 x 122 ft. theatre, rein.-con., brick and terra cotta, here, for Hastings Theatre & Realty Corp., c/o G. Monroe, 804 North 33rd St., Omaha. $150,000.

Neb., Omaha—BUSINESS—O. C. Redick, 245 Omaha Natl. Bank Bldg., plans 6 to 8 story and basement, brick, 15th and Harney Sts. $600,000-$800,000. Engineer and architect not selected.

Mo., Joplin—BUSINESS—Empire Dist. Electric Co. plans 4 story and basement, 50 x 120 ft. business building. $175,000.

Mo., Kansas City—APARTMENT HOTEL, etc.—G. H. McCanles, Victor Bldg., having plans prepared by R. F. Gornall, 3619 Bway., two 7 story and basement, 73 x 130 ft. buildings, Warner Plaza and Main St., also ten non-fireproof, 2 story apartment buildings, incl. separate heating plants for each. $500,000 each.

Mo., Kansas City—HOTEL—C. E. Phillips Building Co., 609 Victor Bldg., having plans prepared by N. E. Peters, 1006 Orear Leslie Bldg., 8 story and basement, rein.-con. and brick hotel, here. Work will probably be done by day labor.

Mo., Kansas City — WHOLESALE MARKET — Riverside Storage Co., 414 Ridge Bldg., having plans prepared by C. A. Smith, 800 Finance Bldg., 1 and 5 story and basement, rein.-con. and brick, 4,800,000 sq.ft. floor space. $1,000,000.

Mo., St. Louis—APARTMENT—S. Hamburg, Jr., et al, Arcade Bldg., having preliminary plans prepared 6 story and basement, 80 x 142 ft., rein.-con., brick, steel and terra cotta, Union Blvd. and Savoy Court. $500,000. Private plans.

Mo., St. Louis — APARTMENT — See "Contracts Awarded."

Mo., St. Louis — APARTMENT and STORE—See "Contracts Awarded."

Mo., St. Louis—HOSPITAL—Lutheran Hospital, Potomac St. and Ohio Ave., soon take bids 5 story and basement, 100 x 100 ft., rein.-con., brick and stone addition, Ohio Ave. $300,000. T. Steinmeyer, International Life Bldg., archt.

Mo., St. Louis—SANITARIUM—City had plans prepared by L. R. Bowen & A. Osburg, 301 City Hall, 2 story and basement, 40 x 135 ft., 30 x 76 ft., and 40 x 90 ft., rein.-con., brick and stone addition, Arsenal St. L. R. Bowen & H. Updike, 301 City Hall, engrs.

Mo., University (Sta. St. Louis) — APARTMENT and STORE—C. E. Richardson, International Life Bldg., St. Louis, plans 3 story and basement, 75 x 84 ft., rein.-con., brick and terra cotta, Delmar Blvd. and Heman Ave. $150,000. Private plans.

Mo., University (Sta. St. Louis)—STORE—Syndicate, c/o H. R. Weisels Co., 8th and Chestnut Sts., St. Louis, plans 3 story and basement, 100 x 183 ft., rein.-con., brick and stone, Delmar Blvd. and Heman Ave. $500,000.

Tex., Corpus Christi—HOTEL, etc.—P. M. Chamberlain, having plans prepared by G. Willis, c/o Builders Exch. Bldg., San Antonio, tile and stucco hotel, plain foundation, also village. $250,000. St. Cyr Barrington, Wash., D. C., associated archt.

Tex., San Antonio—THEATRE—Interstate Amusement Co., c/o Hoblitzelle, Preston Rd., Dallas, plans Majestic Theatre, here. $150,000 or more. Private plans.

Tex., San Benito—HOTEL—San Benito Community Hotel Co., having plans prepared by H. P. Smith, Natl. Bank Commerce Bldg., 4 story and basement, rein.-con., brick and tile, plain foundation. $175,000.

Okla., Chickasha—BANK and OFFICE—Oklahoma Natl. Bank having preliminary plans prepared by F. A. Eades, Chickasha, 8 story and basement, 50 x 140 ft., rein.-con. and brick, plain foundation, 2nd St. $200,000.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles — GARAGE, etc. — A. P. Mitchel, et al., c/o T. B. Keim, archt., Haas Bldg., having plans prepared 4 story and basement, 104 x 155 ft., rein.-con., 12th and Figueroa Sts.

Calif., Los Angeles—STORE and OFFICE—California Properties, Inc., c/o C. J. Smale, archt., 509 South Western Ave., plans 8 story and basement, 6th and Western Aves. To exceed $150,000.

Calif., Los Angeles — WAREHOUSE — Catalina Terminal & Warehouse Corp., 609 Stock Exchange Bldg., plans 3 story, 60 x 250 ft., rein.-con., Broad Ave. between B and C Sts. $150,000. Engineer and architect selected soon.

Calif., Oakland — HOTEL — J. W. Leaming, Ray Bldg., having plans prepared by W. H. Weeks, 369 Pine St., San Francisco, 10 story and basement, concrete annex, Franklin St. near 19th St. $350,000.

Calif., Palo Alto—STORE and OFFICE—Syndicate, c/o C. Strub, 925 Market St., San Francisco, plans 6 story and basement, 110 x 125 ft., fireproof, Kipling St. and University Ave.

Calif., San Francisco — APARTMENT — N. Schultz & Oser Estate, c/o Hyman & Appleton, archts., 68 Post St., having plans prepared 12 story and basement, Green and Jones Sts. $300,000.

Calif., San Francisco—FIREHOUSES—City and San Francisco Co., having plans prepared by J. Reid, Jr., City Hall, three 2 story, fireproof firehouses. $150,000.

Calif., San Francisco—OFFICE—California Commercial Co., California-Commercial Bldg., having plans prepared by G. W. Kelham, Sharon Bldg., 14 story and basement addition, atop 2 story annex to 16 story main office building, Montgomery and Pine Sts. $500,000.

Calif., San Leandro — CITY HALL — Plans new election $175,000 bonds, city hall. Previous election defeated. Noted Oct. 18.

Calif., San Luis Obispo — HOSPITAL — San Luis Obispo Co., rejected bids brick hospital. $150,000 or more. Noted Mar. 18.

Calif., Santa Barbara—HOSPITAL—St. Francis Hospital, East Arrellaga Ave., having plans prepared by W. Mooser, Nevada Bank Bldg., San Francisco, reconstructing fireproof hospital. To exceed $150,000.

Man., Winnipeg—HOSPITAL—Sisters of Misericorde, Sherbrooke and Wolseley Sts., takes bids about Mar. 31, 3 story, basement and sub-basement, 46 x 150 ft., and 46 x 205 ft., rein.-con., brick and stone addition. $175,000. Viau & Venne, 60 St. James St., Montreal, archts. Noted Mar. 4.

Ont., St. Catharines — HOSPITAL — St. Catharines Hospital Bd. having plans prepared by Nicholson & MacBeth, 46 Queen St. W., 3 story and basement, rein.-con., brick and steel addition, plain foundation. $150,000.

Ont., Thistledown—HOSPITAL—Hospital for Sick Children, 67 College St., Toronto, having plans prepared by Sproatt & Raph, 1162 Bay St., Toronto, 2 or 3 story, rein.-con., brick and steel, plain foundation. $500,000. Noted Mar. 11.

B. C., Vancouver—APARTMENT HOTEL—Georgia Hotel, Ltd., Standard Bank Bldg., having plans prepared by R. T. Garrow, 703 Yorkshire Bldg., and takes bids about Apr. 1, 12 story and basement, 120 x 150 ft., rein.-con., brick and stone, Georgia and Howe Sts. $2,500,000. Noted Mar. 4.

Bids Desired

Mass., Fall River—OFFICE—Fall River Electric Light Co., 85 North Main St., taking bids 2 story and basement, 130 x 150 ft., brick and steel, Hartwell St. $160,000. E. I. Marvell, 209 Bedford St., archt.

Mass., Medford (Br. Boston)—APARTMENT—See "Contracts Awarded."

N. Y., Brooklyn — APARTMENT — See "Contracts Awarded."

N. Y., New York—SALES and SERVICE—Apr. 1, by A. Kahn, archt., 100 Marquette Bldg., Detroit, Mich., 3 story and part basement, 81 x 238 ft., rein.-con. and brick, plain foundation, Sherman Ave. and Bway., here, for Packard Motor Car Co., East Grand Blvd., Detroit.

Pa., Phila.—APARTMENT—Mar. 29, by I. W. Levin, archt., 1011 Chestnut St., 4 story and basement, 46 x 167 ft., brick and steel, plain foundation, 4205 Chestnut St., for J. Soutti, 412 Jefferson St. $150,000.

Pa., Phila.—GARAGE—Mar. 31, by L. J. Tonk, archt., 303 Schaff Bldg., 4 story and basement, 53 x 109 ft., rein.-con. and brick, plain foundation, 60 North 4th St., for R. Rechbook, c/o architect.

Md., Catonsville (br. Baltimore)—HOSPITAL—Mar. 29, by H. P. Hopkins & A. Burton, archts., 347 North Charles St., Baltimore, 4 story and basement, 50 x 115 ft., stone and steel wing to Foster Clinic, at Spring Grove Hospital, here. $150,000. Former bids rejected. Noted Mar. 4.

O., Canton — GARAGE — Mar. 30, by Hauck & Letherman Motor Co., 2 story and basement, 96 x 200 ft., East Tuscarawas St. $150,000.

O., Cleveland — APARTMENT — Cedar-Glen Co., c/o S. H. White, archt., 1029 Schofield Bldg., taking bids 3 story and basement, brick, steel and concrete, 2180 Ambleside Ave. $400,000. S. H. White, 1030 Schofield Bldg., archt.

O., Cleveland—APARTMENT—A. Dombick & A. Horwitz, 3416 East 134th St., taking bids 3 story and basement, 73 x 121 ft., brick, Bosworth Rd. and Florian Ave. $150,000. L. Skolnik, Auditorium Garage Bldg., archt.

O., Cleveland—COMMERCIAL, GARAGE and APARTMENT—S. Z. Talisman, 11415 Kinsman Rd., taking bids 1 and 3 story, 76 x 142 ft., brick, 11503 Kinsman Rd. $150,000. Porter & McNally, 3030 Euclid Ave., archts.

O., Mansfield—HOTEL—Apr. 5, by Richland Hotel Co., c/o W. B. Martin, chn. building com., Chalfant Apartments, 8 story and basement, 90 x 130 ft., brick, steel and concrete, hotel. $600,000. Schenck & Williams, Mutual Home Bldg., Dayton, archts. V. Redding & associates, Bird Bldg., associated archts.

O., Youngstown — THEATRE and OFFICE—Apr. 1, by State Theatre Co., 2 story and basement, 87 x 160 ft., 2,000 seating capacity, West Federal St. $750,000. M. Scheible, Youngstown, associated archt. H. Crane, 1734 Seward St., Detroit, Mich., archt.

Mich., Detroit—APARTMENT—P. Miller, 600 Majestic Bldg., taking bids 4 story and basement, brick and steel, plain foundation, Boston Blvd. $150,000. Halpin & Jewell, 1024 Hammond Bldg., archts.

Mich., Detroit — OFFICE — Mar. 29, by C. E. Schley, archt., 1121 Lafayette Bldg., 26 story and basement, rein.-con., brick and steel, caisson foundation, Lafayette Ave., for Lafayette Building Co., c/o architect.

Buildings—Commercial (Continued)

Mich., Detroit—THEATRE, OFFICE and HOTEL—C. H. Miles, Miles Theatre Bldg., State and Griswold Sts., taking bids 16 story and basement, 100 x 200 ft., rein.-con., brick and steel, plain foundation, West Adams Ave. P. R. Pereira, Lincoln Bldg., 333 State St., archt. Noted Jan. 28.

Ill., Chicago—APARTMENT—McNally & Quinn, archts., 12 South La Salle St., taking bids 7 story, 50 x 125 ft., rein.-con., brick and stone, 7147 Jeffrey Ave., for F. McKey, et al, c/o architects. $325,000.

Ill., Chicago—APARTMENT—Rissman & Hirschfield, archts., 64 West Randolph St., taking bids 16 story, 107 x 174 ft., 402-18 Aldine Ave. and Sheridan Rd., for Edith Rockefeller McCormick, c/o Krenn & Dato, 936 North Michigan Ave. $950,000.

Ill., Chicago—STORE, APARTMENT and GARAGE—J. A. Hyden, archt., 190 North State St., taking bids 3 story, brick, for J. Canger, Howard St. and Ridge Ave.

Ill., Chicago—HOTEL—R. F. France & Co., archts., 155 North Clark St., taking bids 29 story, Women's Hotel, Chestnut St. near Seneca St., for M. A. Howell, et al, 4911 Winthrop Ave. $2,000,000. Noted Nov. 19.

Ill., Urbana—ARMORY—Apr. 9, by University of Illinois, c/o J. M. White, ch. archt., 256 Administration Bldg., 2 story and basement, rein.-con., brick and stone addition, on campus. $425,000. Noted Mar. 18.

Tex., Corpus Christi — HOTEL — See "Contracts Awarded."

Ark., Hot Springs—HOTEL—See "Contracts Awarded."

Calif., Boyes Springs—HOTEL—J. L. Stewart, archt., Claus Spreckels Bldg., San Francisco, taking bids 2 and 3 story, rein.-con. hotel, for Sonoma Properties Co. $200,000 or more. Noted Mar. 4.

Calif., Los Angeles — HOME — A. G. Bailey, archt., Hill Street Bldg., taking bids three 3 story, rein.-con., Norwalk St., for Southern California Home for Aged Women. $175,000.

Calif., Los Angeles — LOFT — Morgan, Walls & Clements, archts., Van Nuys Bldg., taking bids 5 story and basement, 65 x 130 ft., rein.-con., South Los Angeles St., for M. R. Gray, c/o architects. Noted Mar. 4.

Calif., Los Angeles—THEATRE, STORE and OFFICE—W. H. Fisher, Union Oil Bldg. taking bids 2 story and basement, 35 x 140 ft. office section, and 135 x 162 ft. theatre section, 2,000 seating capacity, steel and rein.-con., Wilshire Blvd. and Sycamore Ave. $350,000. West Coast Theatres, Knickerbocker Bldg., lessee. Noted Feb. 11.

Calif., Santa Monica—EXCHANGGE—M. Sasso, archt., I. W. Hellman Bldg., Los Angeles, taking bids 6 story and basement, 60 x 80 ft., brick and steel exchange, here, for Santa Monica Telephone Co. Noted Feb. 4.

Bids Received

Calif., Watsonville — HOTEL — W. H. Weeks, archt., 369 Pine St., San Francisco, 5 story and basement, rein.-con., Main and Lake Sts., from A. Johnson Co., 74 New Montgomery St., San Francisco, for Resetar Bros., Watsonville. $197,500. Noted Mar. 4.

Contracts Awarded

Mass., Medford (br. Boston)—APARTMENT—Brown & Fay, 15 Salem St., will build 4 story, brick and steel, Main St., by day labor. $150,000. C. A. Watkins, 15 Salem St., archts.

R. I., Edgewood (Sta. Providence) — MAUSOLEUM—Oakland Cemetery Corp., Broad St., stone mausoleum, to T. F. Cullinan, 1493 Broad St. Archts. est. $200,000. Noted Aug. 7 under "Providence."

Conn., Hartford—APARTMENT—G. W. Morris, 804 Farmington Ave., 10 story, 90 x 150 ft., brick, terra cotta and steel, Farmington Ave., to E. Morris, 804 Farmington Ave. Archts. est. $1,500,000. Private plans. Noted Feb. 4.

Conn., Hartford — OFFICE — Hartford City Gas Light Co., 565 Main St., 3 story and basement, brick and steel, Potter and Mechanic Sts., to Bartlett Brainard Co., 252 Asylum St. Archts. est. $150,000.

Conn., Stamford—APARTMENT—S. Zatkin, Woolsey Rd., 4 story, 40 x 166 ft., and 40 x 170 ft., brick and steel, Highland Ave., to Stamford Constr. Co., Strand Bldg. Archts. est. $600,000. Noted Feb. 18.

N. Y., Brooklyn — APARTMENT — W. Kraslow, 188 Montague St., will build brick, steel and stone, plain foundation, by day labor. $400,000. Shampan & Shampan, 188 Montague St., archts. and engrs.

N. Y., Brooklyn—BANK and OFFICE—Manufacturers Trust Co., 139 Bway., New York City, brick, steel and stone, plain foundation, 774 Bway., here, to H. A. Harris, 16 East 43rd St., New York City. Archts. est. $650,000. Noted Mar. 11.

N. Y., New York—BANK and OFFICE—United States Trust Co., 45 Wall St., 9 story, brick, steel and stone addition, plain foundation, 45 Wall St., to M. Eidlitz & Sons, 41 East 42nd St.

N. Y., New York—LOFT—Trinity Corporation, 187 Fulton St., 10 story, brick, steel and stone, plain foundation, Varick and Charlton Sts., to Industrial Eng. Co., 50 Church St. Archts. est. $700,000. Noted Feb. 25.

N. J., Newark—OFFICE——Feidlebaum & Lehman, 299 Clinton Ave., 9 story, brick, steel and stone, plain foundation, William St., to W. J. McEvoy Co., 85 Academy St. Archts. est. $200,000.

Pa., Allentown — THEATRE — J. K. Bowen, 950 Ham St., 1 story and basement, 100 x 140 ft. theatre, Hamilton St., to W. H. Gangeware & Co., Natl. Bank Bldg., $200,000.

Pa., Phila. — EXPOSITION — Sesquicentenial Exposition, c/o W. F. Kendrick, pres., 5th and Chestnut Sts., Exposition Building, 5 1 story, 170 x 925 ft., and 411 x 880 ft., rein.-con., stucco and steel, wood pile foundation, Broad and Government Sts., to M. Melody & Son, 1322 Race St. $740,000. Noted Mar. 18.

Pa., Pittsburgh — HOTEL — General Forbes Hotel Corp., 6th St. and Penn Ave., general contract 13 story and basement, 74 x 160 ft. addition, 6th St. and Penn Ave., to Longacre Eng. & Constr. Co., 345 Madison Ave., New York City, N. Y., about $1,500,000.

Pa., Pittsburgh—LODGE—Sherrod Temple Assn., Corless St., general contract 3 story and basement, 60 x 120 ft., Charters Ave., to R. K. Sefton, East Diamond St. N. S. Archts. est. $150,000.

Pa., Pittsburgh — WAREHOUSE — A. Kahn, archt., 1000 Marquette Bldg., Detroit, Mich., general contract 5 story and basement, 100 x 333 ft., Progress St., to S. M. Siesel Co., Forbes Bldg., for H. J. Heinz Co., 1062 Progress St. N. S. Archts. est. $1,000,000. Noted Nov. 26.

O., Canton—OFFICE—East Ohio Gas Co., 1405 East 6th St., Cleveland, 2 story and basement, 63 x 83 ft., brick and stone, Dewalt and 2nd Aves. N. W., to L. Kilgore, 1119 9th St. N. W., $150,000.

O., Dayton — MERCANTILE — Central Motor Sales Co., 216 West 3rd St., 2 story, 130 x 140 ft., rein.-con. and brick, plain foundation, West 3rd St., to Ostendorf Harris Co., 117 McDonough St., $150,000.

O., Lorain—APARTMENT—Overlook Co., c/o E. McGeorge, archt., 3030 Euclid Ave., Cleveland, 4 story and basement, brick, to W. Dunbar Co., 8201 Cedar Ave., Cleveland. Archts. est. $150,000. Noted Feb. 11.

O., Norwood (Ind. br. Cincinnati) — APARTMENT — Langdon Realty Co., 3 story and basement, 50 x 200 ft., rein.-con. and brick, plain foundation, to C. P. Mitchell, 1st Natl. Bank Bldg., $140,000.

Mich., Detroit—OFFICE—Detroit Trust Co., Fort and Shelby Sts., 2 story and basement, 138 x 140 ft., rein.-con., brick and steel, Fort St., to W. E. Wood Co., 1805 Ford Bldg. Archts. est. $250,000. Noted Mar. 4.

Mich., Detroit—OFFICE—R. Wurlitzer, 339 State St., 12 story and basement, 30 x 120 ft., rein.-con., brick and steel, plain foundation, Broadway Ave., to O. Misch Co., 159 East Columbia St.

Mich., Royal Oak (br. Detroit) — BIRD HOUSE—Detroit Zoological Park Comn., R. F. Follett, dir., Detroit, 2 story and basement, 95 x 137 ft., rein.-con., brick and steel, plain foundation, here, to Talbot & Meier, 250 West Lafayette Blvd., Detroit, $171,900. Noted Mar. 18.

Ill., Chicago — HOTEL — H. Olson, City Hall, general contract 6 story and basement, 50 x 170 ft., rein.-con., brick and steel, 4242 Clarendon Ave., to P. F. P. Mueller & Co., 1445 Granville Ave. Archts. est. $400,000. Noted Dec. 3.

Ill., Evanston — TEMPLE — Holabird & Roche, archts., 104 South Michigan Ave., Chicago, general contract 3 story, 66 x 150 ft., Bedford stone, etc., Lake St. and Maple Ave., to N. P. Severin Co., 105 West Monroe St., Chicago, for Evanston Lodge A. F. and A. M. Archts. est. $400,000. Noted Sept. 24.

Wis., Milwaukee—APARTMENT—Cedar St. Realty Co., c/o C. J. Keller & Son, archts., 430 Bway., 3 story, 48 x 128 ft., rein.-con. and brick, plain foundation, Cedar St., to Raulf Co., 428 Grand Ave. Archts. est. $150,000. Noted Mar. 4.

Wis., Milwaukee—APARTMENT—Goodsitt & Helfaer, 4609 North Ave., 3 story and basement (2 units each) 43 x 160 ft., rein.-con., brick and tile, plain foundation, concrete and masonry, to Wilke Bros., 1917 Oakland Ave.; carpentry work, to C. J. Harp., 1157 49th St. Archts. est. $250,000. Noted Jan. 21.

Wis., Milwaukee—BANK—Teutonia Ave. State Bank, 1074 Teutonia Ave., concrete and excavation work for 1 story and basement, 42 x 130 ft., rein.-con., brick and stone, plain foundation; Teutonia Ave., to Clos Constr. Co., 1089 45th St. Archts. est. $150,000. Noted Feb. 25.

N. D., Fargo — BANK and OFFICE — First Natl. Bank, E. J. Weiser, pres., 23 Bway., general contract 6 story and basement, rein.-con., brick, tile, stone and terra cotta, to Lovering & Longbotham Co., 605 Builders Exch., St. Paul, Minn. Archts. total est. about $300,000. Noted Jan. 7.

Mo., Kansas City—STORE and AUDITORIUM—Grelis Estate, 231 Scarritt Bldg., general contract 2 story and basement, 120 x 127 ft., rein.-con., brick and steel, 5th and Walnut Sts., to J. E. Taylor, 318 Reliance Bldg., $150,000.

Mo., St. Louis — APARTMENT — A. Mayer Real Estate Co., 4608 Gravois Ave., 3 story and basement, rein.-con., brick and terra cotta, Grand Blvd. and Alberta St., by day labor. $180,000. Private plans.

Mo., St. Louis — APARTMENT and STORE—E. M. Worthington, 4515 Maryland Ave., will build 6 story and basement, 99 x 206 ft., rein.-con., brick and terra cotta, West Pine St. and Newstead Ave., by day labor. $400,000.

Mo., Springfield—DEPOT—F. C. Jonah, ch. engr. St. Louis & San Francisco R.R. Co., Frisco Bldg., St. Louis, general contract remodeling and constructing 2 story and basement, 77 x 247 ft., stucco and hollow tile depot addition, here, to W. W. Johnson, Springfield. Archts. est. $250,000. Noted Mar. 4.

Ark., Hot Springs—HOTEL—C. Smith, et al., City Hall, will build 7 story and basement, 74 x 74 ft., rein.-con., brick and terra cotta, Central Ave. and Bway., by day labor, under supervision of C. Smith. $250,000. Private plans.

Tex., Corpus Christi — HOTEL — H. C. Wood & associates, c/o Travis Bldg., San Antonio, will build 6 story and basement, rein.-con. and brick, plain foundation, by day labor. $300,000 . Kelwood Co., c/o Travis Bldg., San Antonio, archt. and engrs.

Tex., Wichita Falls — HOTEL — O. F. Marchman, 813 Scott St., general contract 5 story and basement, 100 x 150 ft., rein.-con., brick and stone, to R. Brown, 406 Perkins-Snider Bldg. Archts. est. $250,000. Noted Jan. 7.

Okla., Bartlesville — OFFICE — Phillips Petroleum Co., 7 story and basement, 60 x 140 ft., rein.-con., brick and steel, plain foundation, to W. S. Bellows, 812 Herskowitz St., Oklahoma City, $456,880. Noted Jan. 28.

Wash., Seattle — APARTMENT — University Dist. Development Co., 8 story and basement, 80 x 103 ft., rein.-con., stone and brick, East 43rd and Brooklyn Sts., to Walter & Brady, Hoge Bldg. Archts. est. $350,000. Noted Feb. 18.

Calif., Los Angeles—APARTMENT—S. F. Bard, Chamber of Commerce Bldg., will build 4 story and basement, brick, Argyle Ave., by day labor. $175,000.

Calif., Los Angeles — WAREHOUSE — Great Southwest Corp., 6 story, rein.-con., San Fernando Rd., to Robertson Co., Black Bldg., $225,000.

Calif., Los Angeles—LODGE and STORE —Wilshire Lodge Building Corp., 2 story, brick and concrete, 3rd St., to Meyer & Holler, Wright-Callender Bldg., $155,250.

Calif., Los Angeles—SALESROOM—M. Jacobowsky, 3756 West 1st St., and R. Rosenberg, 5041 Franklin Ave., 10 story and basement, 135 x 140 ft., steel and rein.-con., Santa Monica Blvd. and Vermont Ave., to Fidelity Constr. Co., 709 Hillstreet Bldg., $700,000. Noted Mar. 18.

Calif., Los Angeles—THEATRE—Strong & Wilson, c/o M. Hunt, archt., Hibernian Bldg., rein.-con., Vine St., to Scofield Eng. & Constr. Co., Pacific Finance Bldg., approximately $225,000.

Calif., Los Angeles — WAREHOUSE — Great Southwest Corp., 6 story, 90 x 200 ft., rein.-con., 2700 San Fernando Rd., to S. G. H. Robertson Co., 909 Black Bldg., $225,000.

Calif., San Diego—CLUB—Y. W. C. A. of San Diego, 5 story and basement, 100 x 150 ft., rein.-con., 11th and C Sts., to Wurster Constr. Co., Spreckels Bldg., $350,000. Noted Mar. 4.

Calif., San Francisco—OFFICE, etc.—Hale Bros., Market and 5th Sts., 10 story, rein.-con., Stevenson and 5th Sts., to MacDonald & Kahn, 130 Montgomery St., approximately $350,000.

Ont., London—OFFICE—J. M. Moore, archt., 489 Richmond St., 4 story, 300 x 350 ft., stone, Wellington St., to Yates Constr. Co., 17 Main St. E., Hamilton, for London Life Insurance Co., E. E. Reid, mgr., 424 Wellington St. Archts. est. $1,000,000. Noted Feb. 25.

B. C., Vancouver—HOTEL—The Georgia, Ltd., c/o R. T. Garrow, archt., 703 Yorkshire Bldg., general contract 12 story, 120

Buildings—Commercial (Continued)

x 150 ft., rein.-con., brick and tile, plain foundation, Georgia and Howe Sts., to Puget Sound Bridge & Dredging Co., Central Bldg., Seattle, Wash. Archts. est. $2,000,000.

B. C., Vancouver—STORE—W. Dicks Ltd., 45 Hastings St. E., general contract 4 story, 50 x 120 ft., rein.-con., tile and terra cotta, Homer and Hastings Sts., to Smith Bros. & Wilson Ltd., 850 Hastings St. W., $89,000.

Man., Winnipeg — MERCANTILE — T. Eaton Co. Ltd., Toronto, Ont., c/o H. M. Tucker, local mgr., Winnipeg, 121 x 218 ft., brick, steel, tile and stone addition, here, to Claydon Co. Ltd., Imperial Bank Bldg. Archts. est. $170,000. Noted Jan. 28.

Buildings—Industrial

Proposed Work

Mass., Boston — REPAIR GARAGE and DRYING HOUSE — Morgan's Furniture Co., 755 Washington St., plans brick drying house and repair garage. $40,000-$50,000. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.) — FREIGHT HOUSE—Boston & Maine R.R., F. C. Shepherd, asst. ch. engr., North Sta., Boston, plans freight house and transfer system, Rutherford Ave., East Cambridge. $5,000,000. Private plans.

Mass., Holyoke—BOILER HOUSE—City, Gas House Dept., having plans prepared boiler house. $40,000. McClintick & Craig, 458 Bridge St., Springfield, engrs.

Mass., Somerville (br. Boston)—PLANT —First Natl. Stores, Inc., (combination of O'Keefe, Ginter & J. T. Conner Co.) plans manufacturing plant on land recently purchased near Ford Assembling Plant, Mystic Ave. Engineer and architect not selected.

Mass., Worcester—FACTORY—Worcester Paper Box Co., 40 Austin St., plans brick factory. $50,000 or more. Engineer and architect not selected.

N. Y., Brooklyn—PLANT—Kotten Machine Wks., 59 Academy St., having plans prepared by H. J. Nurick, engr. and archt., 44 Court St., 2 story, 80 x 100 ft., rein.-con., brick and steel, plain foundation, 34th St. $50,000.

N. Y., Brooklyn — PLANT — Pisciotta Bros., Inc., 426 Troutman St., having plans prepared by Laspia & Samenfeld, engrs. and archts., 269 Bway., 4 story, 50 x 200 ft., rein.-con., brick and steel, plain foundation, Troutman Ave. $130,000.

N. Y., Buffalo — FACTORY — Republic Metalware Co., 90 Alabama St., plans rein.-con., brick and steel extensions and improvements to present plant. $500,000. Hudson & Hudson, Dun Bldg., archts. Noted Mar. 11.

N. J., Elizabeth—SHOP and FOUNDRY —Lidgerwood Mfg. Co., 96 Liberty St., New York City, plans brick, steel and stone, plain foundation, here. Engineer and architect not selected.

N. J., Trenton — FACTORY — Pierce-Roberts Rubber Co., H. W. Roberts, pres., 33 South Dean Ave., plans rubber factory. $75,000. Engineer and architect not selected.

Pa., Phila.—MILL—Kauffman Pitch Co., Pennsdale and Mitchell Sts., having plans prepared by Ballinger Co., 1216 and Chestnut Sts., 5 story and basement, 80 x 106 ft., brick addition, plain foundation.

N. C., Coleridge—COTTON MILL—Enterprise Mfg. Co. plans enlarging plant on Deep River, incl. completing large brick building started and abandoned in 1922, heating plant, power, etc. $50,000. Lockwood-Greene & Co., Piermont Bldg., Charlotte, engrs.

N. C., Greensboro—FACTORY—Morgan Millwork Co., H. R. Heesh, mgr., plans 2 story, brick, Scott Ave., $100,000.

O., Cincinnati—PACKING PLANT—E. Kahns Sons Co., Livingston St., having plans prepared by Henschin & McClaren, 1637 Prairie Ave., 5 story and basement, rein.-con. and brick, Spring Grove St. $1,000,000.

O., Cleveland — FACTORY — Domestic Electric Co., R. J. Lamb, secy., 7209 St. Clair Ave., having plans prepared by W. J. Wefel, 5716 Euclid Ave., 2 story and basement, 40 x 140 ft., brick addition. $50,000.

Ind., Muncie—PLANT—Kuhner Packing Co., Whiteley and 13th Sts., had plans prepared 2 story, 90 x 178 ft., brick and steel cold storage plant, 13th and Whiteley Sts. $150,000. Private plans.

Ind., Muncie — FACTORY — Victor Garment Co., having plans prepared by Houck & Smenner, Muncie, 1 story, 100 x 195 ft., brick and steel factory. $40,000.

Mich., Ypsilanti—POWER PLANT, etc.—Ford Motor Co., Highland Park having

SUBWAY—NEW YORK, N. Y.

Bids were opened by Board of Transportation, 49 Lafayette St. (lowest four and highest) for Sect. No. 5, Route No. 102, along and under 8th Ave. from West 48th to West 58th Sts., (A) Heyman & Goodman Co., Inc., 236 West 116th St. (awarded contract) Alternate A; (B) Lustbader Construction Co., Inc., 101 Park Ave.; (C) W. H. Gahagan, Inc., 147 Remsen St., Brooklyn; (D) The Carleton Co., Inc., 151 West 42nd St.; (E) Niewenhous Co., Inc., 16 East 43rd St. The unit bids are as follows:

	A	B	C	D	E
121,000 cu.yd. earth excavation (contractor's disposal)	$12.00	$12.47	$13.40	$13.50	$17.20
121,000 cu.yd. earth excavation dump furnished by B. of T.	11.95	12.47	13.50	13.50	17.15
121,000 cu.yd. earth excavation disposal along Nassau Boulevard	13.00	13.50	17.30	15.50	27.00
171,500 cu.yd. rock excavation (contractor's disposal)	15.00	12.47	13.40	15.80	17.20
171,500 cu.yd. rock excavation dump furnished by B. of T.	14.95	12.47	13.50	15.80	17.15
171,500 cu.yd. rock excavation disposal along Nassau Boulevard	16.00	13.75	18.30	17.80	27.00
33,100 cu.yd. concrete masonry	22.00	21.64	20.00	23.00	26.00
83,500 sq.ft. rubbing concrete masonry	.10	.00	.15	.12	.15
4,200 cu.yd. protective concrete masonry	22.00	21.64	20.00	22.00	26.00
2,100 cu.yd. rubble stone masonry	10.00	10.13	12.00	12.00	14.00
25 cu.yd. dry rubble masonry	10.00	10.13	11.00	25.00	14.00
100 cu.yd. brick masonry	35.00	48.12	40.00	40.00	40.00
50 sq.yd. vitrified brick lining	6.00	7.00	7.50	9.00	7.00
20 cu.yd. hollow terra cotta	35.00	44.32	55.00	55.00	40.00
100 bbl. grout	6.00	5.06	8.00	6.00	7.00
200 sq.yd. plastering on hollow tile	2.00	3.74	2.00	2.00	2.00
10 cu.yd. broken stone or gravel	6.00	5.06	6.00	6.00	6.00
10,800 sq.yd. waterproofing—1 ply	1.00	1.49	1.50	1.00	1.50
22,800 sq.yd. waterproofing—3 ply	3.00	2.03	2.50	2.50	2.50
100 sq.yd. waterproofing—4 ply	4.00	2.50	4.00	4.00	5.00
100 sq.yd. waterproofing—6 ply	6.00	2.80	6.50	6.00	6.00
100 sq.yd. waterproofing, dry ply	1.00	1.00	1.50	1.00	1.00
720 cu.yd. brick in asphalt mastic—1 layer	45.00	50.65	55.00	50.00	50.00
10 cu.yd. brick in asphalt mastic—2 layer	45.00	48.17	54.00	50.00	50.00
500 lin.ft. 3 in. c.i. pipe class A	1.50	1.30	1.50	1.50	1.50
300 lin.ft. 4 in.	2.00	1.90	2.00	2.00	2.00
600 lin.ft. 6 in.	2.50	2.15	2.00	2.50	3.00
1,400 lin.ft. 8 in.	4.00	2.55	3.00	3.00	3.50
20 lin.ft. 10 in.	5.00	2.80	5.00	5.00	5.00
500 lin.ft. 3 in. galvanized steel pipe	1.50	3.20	2.00	2.00	2.00
400 lin.ft. 4 in.	2.00	4.00	2.00	2.00	3.00
100 lin.ft. 6 in.	4.00	4.05	2.00	3.00	4.00
50 lin.ft. 8 in.	6.00	7.25	5.00	4.00	5.00
65 lin.ft. 10 in.	8.00	7.60	6.00	5.00	6.00
160,800 duct.ft. tunnel ducts	.25	.23	.31	.25	.32
360 cond.ft. 3 in. fibre ducts	.40	.40	.45	.50	.50
5,950 tons riveted steel, etc.	120.00	129.15	125.00	118.00	150.00
12 tons architectural steel and iron	350.00	380.00	430.00	400.00	400.00
50 sq.ft. steel doors 3 ft. 6 in. x 7 ft. (swinging)	7.00	6.35	6.00	6.00	6.00
450 sq.ft. 3 ft. 6 in. x 7 ft. sliding doors of steel panels	7.00	7.60	6.00	6.00	6.00
2 emergency exit covers	1,000.00	320.00	455.00	500.00	600.00
285 ton steel rods and bars	110.00	109.00	110.00	125.00	150.00
19 ton miscellaneous iron castings	200.00	202.00	200.00	200.00	200.00
1,550 lb. special wire forms	.30	.32	.30	.30	.30
4,120 lin.ft. 1¾ in. oak or ash hand rail	1.00	1.00	.80	.50	1.00
5,300 sq.ft. steel gratings	4.00	3.20	4.00	4.00	4.10
500 sq.ft. vault lights	6.00	4.40	5.00	4.00	3.00
8,300 sq.yd. sidewalk restoration (street surface within curb lines)	3.00	3.15	3.00	3.85	3.10
6,000 sq.yd. repavement of roadway—asphalt	6.00	6.30	4.00	4.50	6.00
400 sq.yd. repavement of roadway—granite block	8.00	6.30	4.00	5.00	6.00

	A	B	C	D	E
4,950 sq.yd. repavement of roadway—Belgian block	$7 00	$3 80	$5 00	$5 00	$5 00
100 lin.ft. new 6 in. blue stone curb	3 00	2 75	3 50	5 00	4 00
8,950 sq.yd. repavement of roadway—wood block	6 00	6 35	5 00	5 00	6 75
150 lin.ft. 8 in. new granite curb	8 00	5 20	7 00	6 00	7 00
240 sq.yd. upper 3 in. concrete wall	3 00	3 80	4 00	3 00	3 00
20,300 sq.yd. temporary granite block pavement	3 00	5 60	3 00	3 00	3 00
9,000 lin.ft. ¾ in. steel electric conduit	.40	.38	.66	.40	.50
50 lin.ft. 1½ in. steel electric conduit	.80	.50	1 00	1 00	.80
6,500 lin.ft. 1 in. steel electric conduit	.60	.63	.70	.60	.60
5 lin.ft. 2½ in. steel electric conduit	3 00	1 90	3 00	10 00	3 00
760 4 x 4 x 3 in. c.i. outlet box	3 00	2 50	2 50	2 00	2 00
10 6 x 6 x 4 in. c. i. pull box	4 00	5 00	7 50	10 00	7 00
1 6 x 12 x 3 in. c.i. pull box	10 00	9 00	15 00	20 00	15 00
40 lin.ft. 6 in. c.i. pipe ex. H	3 00	3 15	3 00	3 00	6 00
125 lin.ft. 3 in. c.i. pipe ex. H	1 40	1 25	3 00	2 00	3 00
10 lin.ft. 4 in. c.i. pipe Ex. H	2 00	.75	5 00	4 00	5 00
100 lin.ft. 12 in. vitrified pipe sewer	7 00	6 40	12 00	14 50	8 00
400 lin.ft. 15 in.	8 00	7 50	12 00	15 00	10 00
500 lin.ft. 18 in.	10 00	8 70	15 00	15 50	12 00
100 ton c.i. sewer pipe—straight	120 00	114 00	255 00	150 00	170 00
50 ton c.i. sewer pipe—special	250 00	177 00	300 00	225 00	230 00
2,000 lin.ft. 3 ft. 6 in. x 2 ft. 4 in. sewer	20 00	31 80	30 00	21 25	17 00
450 lin.ft. 4 ft. x 2 ft. 6 in. sewer	22 00	34 20	30 00	25 00	19 00
1,300 lin.ft. 3 ft. 9 in. x 2 ft. 4 in. sewer	20 00	32 20	30 00	23 00	18 00
300 lin.ft. 4 ft. 9 in. x 3 ft. sewer	25 00	40 80	60 00	28 00	28 00
600 lin.ft. 5 ft. x 3 ft. 2 in. sewer	30 00	43 40	70 00	32 00	30 00
6,000 lin.ft. of single track for electric underground trolley railroad	10 00	25 00	15 00	10 00	15 00
4 elevated columns supported partly or entirely off R.R. structure	5,000 00	7,000 00	3,000 00	2,500 00	4,000 00
4 elevated stairway columns supported partly or entirely off R.R. structure	1,000 00	7,000 00	3,000 00	1,500 00	2,000 00
100 lin.ft. 6 in. c.i. water pipe	3 00	2 50	4 00	3 00	4 00
220 lin.ft. 12 in. c.i. water pipe	5 00	3 80	5 00	5 00	6 00
550 lin.ft. 30 in. c.i. water pipe	15 00	10 10	15 00	13 00	15 00
10 service connections for water pipes	100 00	44 30	50 00	50 00	50 00
100 lin.ft. 4 in. c.i. gas pipe	2 00	1 90	2 50	2 00	4 00
100 lin.ft. 6 in. c.i. gas pipe	3 00	2 50	3 00	3 00	5 00
100 lin.ft. 8 in. c.i. gas pipe	4 00	3 80	3 50	4 00	6 00
200 lin.ft. 12 in. c.i. gas pipe	5 00	7 60	5 00	5 00	7 00
100 lin.ft. 6 in. bypass (upon or below street)	8 00	17 80	5 00	5 00	12 0
75 lin.ft. 8 in. bypass (upon or below street)	12 00	19 80	20 00	7 00	14 00
4,000 lin.ft. 12 in. bypass (upon or below street)	20 00	23 80	25 00	12 00	20 00
4,000 lin.ft. 24 in. bypass (upon or below street)	30 00	29 80	40 00	25 00	25 00
125 lin.ft. 16 in. overhead by pass	10 00	15 20	35 00	20 00	22 00
100 lin.ft. cable support pipe 16 in. or over	10 00	12 70	10 00	10 00	20 00
10 service connections for gas	100 00	63 00	50 00	50 00	100 00
150 ton new c.i. pipe—straight (furnishing and laying)	120 00	114 00	125 00	120 00	150 00
70 ton new c.i. pipe—special (furnishing and laying)	220 00	203 00	250 00	225 00	220 00
100,000 duct.ft. vitrified clay electric ducts—laying	.30	.75	.40	.30	.50
10 service connections for electric ducts	100 00	125 00	85 00	75 00	100 00
10 service boxes on relocated duct lines	250 00	250 00	275 00	250 00	200 00
10 junction boxes on relocated duct lines	500 00	380 00	500 00	350 00	400 00
10 additional junction boxes on relocated duct lines	500 00	380 00	800 00	500 00	500 00
Removal of buildings (lump sum)	.....	.....	.....	10,000 00	15,000 00
Removal of building material	1 00	2,600 00	100 00	200 00	100 00
Extended totals alternate A	$6,641,678	$6,942,393	$7,023,791	$7,060,495	$7,987,083
Extended totals alternate B	6,627,053	6,942,393	7,053,041	7,060,495	7,972,458
Extended totals alternate C	6,934,178	7,286,543	8,336,041	7,645,495	10,853,583

Buildings—Industrial (Continued)

plans prepared by A. Kahn, 1000 Marquette Bldg., rein.-con., brick and steel auxiliary steam power plant as reserve unit in connection with hydro-electric plant; also by owners engineering department rein.-con. dam, 34 ft. high, to impound lake ½ mi. wide, and 4,600 hp. hydro-electric power plant.

Ill., Decatur — POWER PLANT — City and Macon Co. Hospital Bd., North Edward St., having plans prepared by Brooks, Bramhall & Dague, Natl. Bank Bldg., and soon takes bids 2 story and basement, rein.-con., brick and steel power plant, plain foundation. $150,000. S. R. Lewis, 4075 Dearborn St., Chicago, consult. engr.

Ill., Joliet—SUB-STATIONS—Chicago & Joliet Electric Ry. Co., 301 North Ottawa St., having preliminary plans prepared 1 story and basement, concrete and brick electric sub-stations, one on east side, other on west side. $240,000. Private plans.

Wis., Madison — PLANT — Pennsylvania Oil Co., 736 East Washington Ave., having plans prepared by F. Riley, Conklin Bldg., 2 story, 50 x 100 ft., rein.-con., brick and steel warehouse and shop. $40,000.

Wis., Manitowoc—FACTORY—Westman Mfg. Co., North 11th St., having plans prepared by Smith & Brandt, Dempsey Bldg., 2 story, 50 x 100 ft., rein.-con. and brick addition, plain foundation.

Wis., Milwaukee—FACTORY—A. B. and B. Sheet Metal Wks., 3300 Fond du Lac Ave., having new plans prepared by H. J. Esser, 82 Wisconsin St., 2 story, 36 x 130 ft., brick addition, plain foundation. Noted Feb. 25.

Wis., Stevens Point—FACTORY—Automatic Cradle Mfg. Co., 235 North 3rd St., having plans prepared by F. Spalenka, 434 Normal Ave., 4 story, 72 x 80 ft., brick and timber addition, plain foundation. $50,000.

Wis., Stevens Point—FACTORY—Weber Lifelike Fly Co., 143 Main St., having plans prepared by F. Spalenka, 434 Normal Ave., 1 story, 62 x 100 ft., brick and timber, 3rd St. $40,000.

Wis., Two Rivers—FACTORY—Hamilton Mfg. Co., having plans prepared, 5 story L shaped, 122x130 ft. and 1 story, 120x250 ft. brick and steel additions, plain foundations. Lockwood, Greene & Co., 400 North Michigan Ave., Chicago, Ill., engrs.

Wis., Two Rivers—PLANT—Lockwood, Greene & Co., archts., 400 North Michigan Ave., Chicago, Ill., take bids about Apr. 15, 5 story, brick and steel addition, here, for Hamilton Mfg. Co. $300,000.

Ia., Muscatine — WAREHOUSE — H. J. Heinz Co., 1062 Progress St. N. S., Pittsburgh, Pa., having plans prepared 3 story, 65 x 210 ft., brick and steel warehouse. $225,000. Private plans.

Neb., Fremont—ICE CREAM PLANT—Graham Ice Cream Co., 1510 Jones St., Omaha, plans 2 story ice cream plant, brick. To exceed $50,000. Engineer and architect not selected.

Neb., Lincoln—POWER HOUSE, etc.—Lincoln Pub. Serv. Co. (consolidation of Lincoln Gas & Electric Co., 14th and O Sts., J. B. Hill, genl. mgr., and Lincoln Traction Co., Terminal Bldg.), plans to expend $1,350,000 during 1926, improving and uniting 2 plants, constructing new shops, etc.

Neb., Omaha — CREAMERY — Harding Creamery Co., 802 Harney St., making plans 1 story, brick top addition, 802 Harney St. $40,000.

Mo., Kansas City—POWER PLANT, etc.—St. Marys Hospital having plans prepared complete power plant. $85,000. Burns & McDonnell, 402 Interstate Bldg., engrs.

Mo., Kansas City—GYPSUM PLANT—U. S. Gypsum Co., 205 West Monroe St., Chicago, Ill., plans mill, here. $700,000. Private plans.

Mo., Kansas City—HEATING PLANTS—See "Buildings—Commercial."

Mo., Versailles — SHOE FACTORY — Tweedie Shoe Co., Jefferson City, having plans prepared by L. Abt, Moberly, and soon takes bids 1 story and basement, 50 x 234 ft., brick and tile factory, here. $75,000.

Tex., Amarillo — CREAMERY—Metzger Bros., c/o C. Metzger, Holmes St. Rd., Dallas, having plans prepared by F. J. Woerner & Co., engrs. and archts., 503 Central Bank Bldg., Dallas, 1 story, 48 x 60 ft., tile creamery, here.

Tex., Coleman — PUMPING PLANT — Prairie Pipe Line Co., plans large pumping plant in Dibrell Oil Field, near here, large rein.-con. dam across Ranch Creek River, and 9 mi. 6 in. and 8 mi. 4 in. pipe line from Pioneer. $600,000. Private plans.

Tex., Newton — ICE and WATER PLANT, etc. — J. I. Miller, Jr. and associates, having preliminary plans prepared water, ice and electric plants. $100,000. Private plans.

Tex., Port Arthur—PACKING PLANT—Zummo Packing Co. plans rein.-con. and

Buildings—Industrial (Continued)

brick packing plant. $70,000. Private plans.

Tex., Port Arthur—FOUNDRY and MACHINE SHOP—Gulf Coast Machinery & Supply Co., c/o R. M. Tyron, mgr., 305 Orange St., plans 1 story, steel and iron foundry and machine shop.

Tex., San Antonio—MACHINE SHOP, etc.—Fraternal Supplies Mfg. Co., 1017 North Salado St., c/o R. E. Chrone, mgr., having plans prepared tailoring machine shop, etc. $40,000. Private plans.

Okla., Tulsa—BAKERY—Tulsa Baking Co., 604 East 3rd St., c/o G. S. Hammond, Tulsa, plans fireproof plant addition. $50,000.

Calif., Fresno—PLANT—Hollywood Dry Ginger Ale Co., 1184 Harrison St., San Francisco, plans bottling plant. To exceed $40,000.

Calif., Monterey—PLANT—Interests represented by P. Ferranti, c/o Monterey Sardine Fishermens Assn., plans fish canning plant on 180 x 200 ft. site. $100,000.

Calif., Vallejo — PLANT — Sperry Flour Co., 141 California St., San Francisco, plans 2 story, 65 x 180 ft. cotton bag manufacturing plant, 3,000,000 bags capacity per month. $100,000. Eng. Dept. of Owners, engrs.

Calif., Vernon — FACTORY — Amer. Can Co., having plans prepared 2 story, 154 x 650 ft., probably rein.-con. addition. Eng. Dept. of Owners, engrs.

Calif., Willows—POWER PLANT, etc.—Glenn-Colusa Irrigation Dist., W. Durbrow, secy., making plans power plant to develop 13,000 hp., constructing dam across Sacramento River above Hamilton City, and 9 mi. canal. $2,000,000. F. H. Tibbetts, Alaska Commission Bldg., San Francisco, engr.

Ont., Tillsonburg — PLANT — Regal Oil Refinery having plans prepared oil refinery, concrete and brick. $1,000,000. W. B. Brooks and L. Frickman, c/o owner, engrs.

B. C., North Vancouver—OIL STORAGE —Imperial Oil Co. Ltd., Smythe St., Vancouver, C. M. Rolston, mgr., having plans prepared and soon takes bids oil storage depot, near Indian Reserve, here. $200,000. Private plans.

Bids Desired

Mass., Cambridge (Boston P. O.) — REPAIR and SERVICE GARAGE — See "Contracts Awarded."

R. I., Bristol—MILL—Mar. 30, by Cranston Worsted Co., Thames St., 4 story, 135 x 140 ft., brick and timber, Thames St. $225,000. Jenks & Ballou, 1035 Grosvenor Bldg., Providence, archts. and engrs. Noted Mar. 4.

Pa., Easton — LAUNDRY — Rough Dry Laundry Co., Bank St., taking bids 3 story and basement, 70 x 150 ft., brick, steel and concrete, Bank St. $40,000. C. D. Trumbauer, c/o owner, archt.

Mich., Muskegon — FURNITURE FACTORY—Mar. 31, by A. Kahn, archt., 1000 Marquette Bldg., Detroit, 5 story and part basement, 110 x 215 ft., rein.-con. and brick, plain foundation, for Shaw-Walker Co., 27 Division St. Noted Mar. 11.

Wis., Milwaukee—FACTORY—Mar. 29, by C. T. Gross, 3020 State St., and Henschien & McLaren, archts., 1637 Prairie Ave., Chicago, Ill., taking bids 1 and 2 story, 90 x 100 x 100 ft., rein.-con. and brick, plain foundation, Poplar St. $60,000. Noted Mar. 11.

Tex., Raymondville — COTTON COMPRESS — See "Contracts Awarded."

Man., St. Boniface—PAPER MILL—See "Contracts Awarded."

B. C., Vancouver — PLANT — See "Contracts Awarded."

Contracts Awarded

Mass., Brockton—REPAIR GARAGE—M. Goodman, 25 Pleasant St., 2 story, 80 x 240 ft., rein.-con., Main St., to J. A. Singarella, 110 High St., Boston. Archts. est. $175,000.

Mass., Cambridge (Boston P. O.)—REPAIR and SERVICE GARAGE—Cameron Ave. Garage Inc., 40 Cottage St., Chelsea, will build 1 story, 195 x 230 ft., brick, 5-7 Cameron Ave., by day labor. $100,000. S. E. Moffle, 51 Cornhill St., Boston, archt.

Conn., Waterbury—PRINTING PLANT —Waterbury American, 174 Grand St., brick and steel, Grand St., to Torrington Building Co., 182 Church St., Torrington. Archts. est. $150,000.

Pa., Beaver Falls—MANUFACTURING — Standard Steel Specialty Co., general contract 1 story, irregular shaped plant, Morado St., to Inland Constr. Co., Penn Ave., E. E. Pittsburgh. Engrs. est. $50,000.

Pa., Easton—PRINTING PLANT—Mack Printing Co., 1 story, 128 x 300 ft., steel, brick and concrete, to Central Constr. Co., 17th and Chestnut Sts., Harrisburg, $170,000.

Pa., Erie — SLAG MILL — Buffalo Slag Co., 1072 Ellicott Sq., Buffalo, N. Y., constructing slag mill, here, to Federal Concrete Co., 677 Wyoming Ave., Buffalo, N. Y., $150,000.

Pa., Phila.—SUB-STATION—J. I. Windrim, archt., Commonwealth Bldg., 1 and 2 story and basement, 60 x 100 ft., rein.-con. and brick, plain foundation, 19th and Oxford Sts., to F. K. Worley Corp., Wesley Bldg., for Philadelphia Electric Co., 10th and Chestnut Sts. Noted Mar. 4.

Pa., Stockertown—GARAGE and WAREHOUSE—Hercules Cement Co., 1 story, block garage and 2 story steel and concrete warehouse, to Austin Co., 1015 Chestnut St., Phila. Archts. est. $40,000.

Pa., Union—POWER PLANT, etc.—West End Power Co., Pittsburgh, 50,000 kw. power plant and power development on Cheat River, to Sanderson & Porter, 52 Williams St., New York City, N. Y. Engrs. est. $6,000,000.

O., Cleveland—MACHINE and FORGE SHOPS—Upson Walton Co., 1310 West 11th St., 1 story each, 120 x 120 ft. machine shop, and 60 x 120 ft. forge shop, brick and steel, 12500 Elmwood Ave., to Austin Co., 16112 Euclid Ave. Archts. est. $75,000.

O., Massillon—PLANT—Central Steel Co., 49 Koppers Becker By Products ovens with Benzol plant, to Koppers Co., Union Trust Bldg., Pittsburgh, Pa. Archts. est. $500,000.

O., Youngstown—PLANT—Republic Iron & Steel Co., 43 Koppers Becker By Products oven additions, to Koppers Co., Union Trust Bldg., Pittsburgh, Pa.

Ill., Highland Park—ICE PLANT—Highland Park Ice Co., 5538 Park Blvd., 1 story, 76 x 150 ft., brick, plain foundation, to W. W. Steele, 814 Oak St. Noted Mar. 11.

Wis., Milwaukee—FACTORY—Holeproof Hosiery Co., 404 Fowler St., 1 story, 150 x 150 ft., rein.-con. and brick top addition, to Dahlman Constr. Co., 456 Bway. Archts. est. $45,000.

Wis., Milwaukee—FACTORY—Meyer Ice Co., 885 30th St., 1 story, 79 x 143 ft., brick, plain foundation, 30th St., to K. W. Constr. Co., 589 Mabbett Ave. Archts. est. $40,000.

Wis., Milwaukee — FACTORY — E. B. Tonnsen Co., 113 Harmon St., 2 story, 86 x 88 ft., brick addition, plain foundation, to Wilke Bros., 1917 Oakland Ave. Archts. est. $40,000.

Wis., North Fond du Lac—FACTORY—J. E. Burke, 341 North Park Ave., 1 story and basement, 44 x 100 ft., rein.-con., plain foundation, to W. J. Friedrich, 31½ Fulton St., Oshkosh. Archts. est. $40,000.

Wis., Oshkosh — FOUNDRY — Wilkin-Challoner Co., Nevada and Mt. Vernon Sts., 1 story, 84 x 114 ft., brick and steel, plain foundation, to Fluor Bros. Constr. Co., 52 Otter St. Archts. est. $40,000. Noted Mar. 18.

Mo., St. Louis—COOPERAGE—St. Louis Cooperage Co., 133 Arsenal St., 2 story, 100 x 199 ft., rein.-con. and brick, Arsenal St., to Widmer Eng. Co., Laclede Gas Bldg. Archts. est. $42,000.

Tex., Raymondville — COTTON COMPRESS — Aransas Compress Co., will build concrete and corrugated cotton compress, by day labor. $65,000. Private plans. Noted Mar. 11.

Calif., Rialto — PACKING PLANT — Rialto-Orange Lemon Assn., 1 story and basement, 100 x 120 ft., rein.-con., to Sumner-Solitt Co., Delta Bldg., Los Angeles, $41,500.

Calif., San Francisco—PLANT—Persian Rug Co., 465 10th St., 3 story, rug cleaning plant, concrete, Otis St. near Duboce Ave., to J. H. Hjul, 128 Russ St. Engrs. est. $75,000.

Calif., Santa Ana—CREAMERY—Raitt Sanitary Dairy, 2 story, 50 x 75 ft., rein.-con., East 4th St., to Markel & Son, Santa Ana.

Man., St. Boniface — PAPER MILL — Weiner-Brownell Paper Mills Ltd., Winnipeg, will build 64 x 220 ft. mill, here, by day labor. $200,000. B. W. Parker, 624 Union Bank Bldg., Winnipeg, engr.

B. C., Vancouver—PLANT—Cotton Co. Ltd., False Creek Yards, will build bunkers and factory; by day labor. $50,000. Private plans.

Buildings—Educational, Religious

Proposed Work

Me., Augusta — CHURCH — St. Mary's Roman Catholic Church, T. J. McLaughlin, pastor, having plans prepared by O'Connell & Shaw, 124 Newbury St., Boston, 1 story and basement, rein.-con. and stone, Weston Ave. and Sewell St. $150,000.

Mass., Arlington (Boston P. O.) — SCHOOL — Town, School Comn., plans 2 story and basement, brick, Parmenter Dist. $150,000. Engineer and architect not selected.

Mass., Boston—SCHOOL—City, School-house Dept. plans 2 story and basement, brick, Rutland St. $150,000. Engineer and architect not selected.

Mass., Boston—SCHOOL—City, School-house Dept., plans school, Regina Rd. and Park St., Dorchester Dist. $150,000. Engineer and architect not selected.

Mass., Clinton—CHURCH—First Methodist Episcopal Church, 77 Walnut St., having plans prepared by Woodbury & Stuart, 581 Boylston St., Boston, 2 story, 60 x 115 ft., rein.-con. and stone church. $150,000.

Mass., Danvers—HIGH SCHOOL—Town, School Comn. plans Senior and Junior High Schools. $500,000 appropriated. Engineer and architect not selected.

Mass., Duxbury — SCHOOL — Town, School Bldg. Com., plans 2 story, brick school, Alden St. $160,000. Engineer and architect not selected.

Mass., Easthampton — SCHOOL—Town, School Com., plans 2 story new school. $155,000 appropriated. Engineer and architect not selected.

Mass., Everett (br. Boston) — CHURCH —Glendale Baptist Church, E. P. Tuller, pastor, plans altering and constructing 2 story, 40 x 85 ft. with 20 x 60 ell, brick and stone, Bway. near Glendale Sq. $150,000 or more. Engineer and architect not selected.

Mass., Everett (br. Boston)—CHURCH—First Baptist Church, A. Jackson, chn. com., 512 Bway., plans 1 story and basement, stone church. $150,000-$200,000. Engineer and architect not selected.

Mass., Fitchburg — SCHOOLS and LIBRARIES — Voted $554,913 bonds, schools and libraries. Engineer and architect not selected.

Mass., Framingham — CONVENT — Bethany Convent plans rebuilding 3 story and basement, brick and stone addition, recently destroyed by fire. $200,000. Private plans.

Mass., Hingham — HIGH SCHOOL — Town, School Com., plans new high school. $250,000. Engineer and architect not selected.

Mass., Malden (Boston P. O.) — HIGH SCHOOL — City, School Com., F. G. Marshall, supt., plans Junior High School, brick. $150,000 or more. Engineer and architect not selected.

Mass., Mattapan (sta. Boston)—SCHOOL —Temple Agudath Israel, Woodrow Ave., plans raising $200,000 funds, school, Morton St. Engineer and architect not selected.

Mass., Medford (Boston P. O.)—DORMITORY—Tufts College, S. Robbins, ch. com., 20 Pemberton Sq., Boston, having sketches made by Andrews, Jones, Biscoe & Whitmore, 50 Congress St., Boston, 2 or more story, brick dormitory. $150,000.

Mass., Medford (br. Boston) — HIGH SCHOOL—City, Bd. Aldermen, plans Junior High School, 2 story and basement, brick and stone, Court and Park Sts. $500,000. Engineer and architect not selected.

Mass., Newton (Ind. br. Boston) — ACADEMY—Boston Academy of the Sacred Heart, 260 Commonwealth Ave., Boston, having sketches made by Maginnis & Walsh, 100 Boylston St., Boston, altering and constructing academy addition. To exceed $150,000.

Mass., Newton (Ind. br. Boston) — SCHOOL—City, School Com., plans 2 story and basement, brick, Chestnut Hill Dist. $150,000. Engineer and architect not selected.

Mass., Waltham (Ind. br. Boston) — SCHOOL—City, H. F. Beal, mayor, plans school in northeast section. $355,000. Engineer and architect not selected.

Mass., Williamstown — FRATERNITY — Delta Delta Fraternity House, Williams College, soon lets contract 3 story and basement, brick, steel and stone fraternity house. $150,000. Andrews, Jones, Biscoe & Whitmore, 50 Congress St., Boston, archts.

Conn., Hartford—CHURCH—Bradview Community Church, H. R. Pease, chn. building com., having plans prepared by Smith & Bassette, 36 Pearl St., 2 story, 45 x 95 ft. church, and 46 x 107 ft. community building, Roger and Oliver Sts. $160,000.

Conn., New Haven—HIGH SCHOOL—Bd. Educ., F. H. Beede, supt., plans 2 Junior High Schools, one Fairhaven Dist., and other Winchester Dist. $1,500,000. Brown & Von Beren, 185 Church St., archts.

Conn., Plainville—HIGH SCHOOL—Bd. Educ. plans 19 room, brick, East St. $200,000.

N. Y., New York—LIBRARY—City College, 139th St. and Convent Ave., having plans prepared by Crowe, Lewis & Wick, engrs. and archts., 200 5th Ave., brick, steel

Buildings—Educational, Religious (Cont.)

and stone, plain foundation, Convent Ave. $250,000.

N. Y., New York—SCHOOL—Bd. Educ., 500 Park Ave., having plans prepared by W. H. Gompert, engr. and archt., Flatbush Ave. extension and Concord St., Brooklyn, 5 story, brick, steel and stone, plain foundation. East 4th St. $550,000.

N. J., Red Bank—SCHOOL—St. James Roman Catholic Church, J. B. McClosky, rector, plans 3 story, 55 x 142 ft., brick school. $200,000. V. J. Eck, Red Bank, engr.

D. C., Wash.—CHURCH and SUNDAY SCHOOL—Western Presbyterian Church having plans prepared by F. J. Ritter, 701 19th St. N. W., church and Sunday school. $200,000.

N. C., High Point — HIGH SCHOOL — High Point School Bd. takes bids about Apr. 1, 3 story and basement, 225 x 365 ft. high school, between Jones and Chestnut Sts. $400,000. H. Barton, Greensboro, archt.

La., Marksville — HIGH SCHOOL — Avoyelles Parish School Bd., having plans prepared by W. T. Nolan, Canal-Commercial Bldg., New Orleans, 2 story, brick high school. $150,000.

Ky., Newport — SCHOOL — Bd. Educ. having plans prepared by C. C. and E. A. Weber, 1408 Ingalls Bldg., Cincinnati, O., 2 story and basement, rein.-con. and brick, plain foundation, Central St. $150,000.

O., Bowling Green—GYMNASIUM—Dept. Welfare, Oak and 9th Sts., Columbus, had plans prepared by H. B. Briggs, Ohio-Hartman Bldg., 1 story and basement, 75 x 100 ft., brick and concrete, here, for Bowling Green State Normal School. $150,000.

O., Dayton—HIGH SCHOOL—Bd. Educ., Ludlow Bldg., plans Junior High School, 2 story, rein.-con. and brick, North Riverdale. $400,000. Engineer and architect not selected.

Ind., Indianapolis—CATHEDRAL—A. A. Scottish Rite Masons, F. Stalnaker, chn., North and Meridian Sts., having plans prepared by G. F. Schreiber, 914 Merchants Bank Bldg., brick, steel, stone and rein.-con. cathedral. $2,500,000.

Ind., Indianapolis — SCHOOLS — Bd. School Comrs. having plans prepared by Daggett & Hibben, brick and rein.-con. addition to Grade School 37, Baltimore Ave. and 25th St., $185,000, C. Ammerman, 529 Occidental Bldg., engr.; by D. Graham, 1128 Hume Mansur Bldg., addition to Grade School 72, Troy and Carson Aves., $160,000, Snider & Rotz, 703 Merchants Bldg., engrs.; by Vonnegut, Bohn & Mueller, 610 Indiana Trust Bldg., addition to Grade School 42, 25th and Rader Sts., $185,000, Snider & Rotz, 703 Merchants Bldg., engrs.; by D. A. Bohlen, 1001 Majestic Bldg., addition to Grade School 33, 1119 Sterling St., $150,000, C. Ammerman, 529 Occidental Bldg., engr.; by Pierre & Wright, addition to Grade School 14, East Ohio St., $150,000, W. Breining, Indianapolis, engr.

Ind., LaFayette—SCHOOL—Bd. School Trustees, D. Simns, pres., having plans prepared by W. Scholer, brick and rein.-con. school for vocational and physical education. $330,000.

Mich., Muskegon — CHURCH — Central Methodist Episcopal Church, Clay Ave. and Jefferson St., having plans prepared by Vander, West & Child, archts. and engrs., Montgomery Blk., Muskegon, 2 story and basement, 110 x 262 ft., brick, plain foundation, Webster St. $300,000.

Wis., Fort Atkinson — SCHOOL — City, H. H. Smith, clk., plans 4 story, rein.-con., brick and steel school, plain foundation. $150,000. Engineer and architect not selected.

Wis., Green Bay — CHURCH — First Methodist Episcopal Congregation, H. Johnson, 509 Howe Ave., having preliminary plans prepared by C. Jansson, 58 East Washington St., Chicago, Ill., 2 story, brick and stone, plain foundation, here. $150,000.

Wis., Madison—SCHOOL—University of Wisconsin, J. D. Phillips, bus. mgr., Administration Bldg., having plans prepared by A. Peabody, State Capitol, 4 story, rein.-con., brick and steel, plain foundation. $600,000. Noted Mar. 4.

Wis., West Allis — SCHOOL — Bd. Educ., F. E. Hoker, pres., having plans prepared by Lindl & Schutte, 82 Wisconsin St., Milwaukee, 3 story and basement, brick and tile, plain foundation, Hawley Rd. $150,000.

Ia., Bedford—SCHOOL—Election Apr. 5, $160,000 bonds, for school, for Bd. Educ.

Ia., Des Moines—CHURCH—Plymouth Congregational Church, H. Wallace, chn., takes bids in April, 2 story and basement, 100 x 200 ft., rein.-con., brick and stone, 41st and Ingersoll Aves. $250,000. Dougher, Rice & Woodburn, 805 Valley Natl. Bank, archts. Noted Jan. 8.

Ia., Des Moines—CHURCH—Dougher, Rich & Woodburn, archts. and engrs., 806 Valley Natl. Bank Bldg., take bids about Apr. 16, 2 story and ground floor, 80 x 160 ft., rein.-con. and steel, plain foundation, 41st and Ingersoll Aves., for Plymouth Congregational Church. $300,000. Noted Mar. 18.

Ia., Muscatine—SCHOOLS—Voted $275,000 bonds, rein.-con., brick and stone school, and 2 additions to schools, for Bd. Educ. H. Ahlschlager, secy. Bd. Educ. Noted Mar. 4.

Minn., Minneapolis — SCHOOL — Bd. Educ., 305 City Hall, having preliminary plans prepared by Architectural Dept. of Bd. Educ., 3 story and basement, rein.-con., brick, tile and stone, 43rd Ave. N. between Morgan and Newton Aves. $250,000.

Minn., St. Paul — DORMITORY — Macalestor College, J. C. Acheson, pres., Grand and Snelling Aves., having plans prepared by W. M. Ingeman, 637 Endicott Bldg., 2 and 3 story and basement, 128 x 250 ft., rein.-con., brick and stone, on campus. $200,000.

Neb., Hastings — SCHOOL — Bd. Educ. had plans prepared by K. H. Gedney & Co., 2nd and Kansas Sts., 3 story and basement, 103 x 173 ft., brick and terra cotta addition. $150,000.

Neb., Hastings — SCHOOL — Bd. Educ. having plans prepared by K. H. Gedney & Co., 2nd and Kansas Sts., Longfellow Grade School, 2 story and basement. $165,000. Noted Mar. 4.

Neb., Mitchell — SCHOOL — Bd. Educ. having plans prepared by Meginnis & having plans prenared by Meginnis & Scharmberg, 405 Nebraska State Bldg., Lincoln, school. $150,000 bonds voted.

Neb., Omaha — CHURCH — Immaculate Congregation, 24th and Bancroft Sts., soon takes bids 1 story and part basement, 65 x 140 ft., brick and stone church and rectory. $150,000. J. M. Nachigael, 418 Paxton Bldg., archt.

Mo., Joplin—SCHOOLS—Bd. Educ. having plans prepared by Smith & Van Pelt, 819 Frisco Bldg., and takes bids in May or June, Jefferson, Lincoln, Longfellow, Washington, South Joplin and Smelter Hill Schools, each 3 story, brick and concrete and constructing additions to McKinley and Alcott Schools. $750,000. Noted Jan. 28.

Mo., St. Louis—DORMITORY—Washington University, Skinker and Forsythe Sts., soon takes bids 2 story and basement, 50 x 200 ft., rein.-con. and granite, campus. $200,000. Jamieson & Spearl, Arcade Bldg., archts.

Tex., Brownsville—HIGH SCHOOL—Bd. Educ. having plans prepared by H. P. Smith, c/o Natl. Bank of Commerce Bldg., San Antonio, Senior High School, 3 story, rein.-con., brick and tile, plain foundation. $150,000.

Tex., San Angelo—SCHOOL, etc.—Voted $250,000 bonds, Ward School and improvements to present buildings; also $250,000 bonds Junior College, both 3 story, rein.-con. and brick, plain foundation. Phelps & De Wees, c/o Gunter Bldg., San Antonio, archts. Noted Feb. 18.

Tex., San Antonio — CHURCH — St. Mark's Episcopal Church, c/o R. P. Crum, pastor, 315 Pecan St., having plans prepared by Giles & Beckman, c/o Moore Bldg., 3 story, 48 x 114 ft., rein.-con. and brick, plain foundation, Jefferson St. between Becan and Martin Sts. $200,000.

Calif., Fresno — SCHOOL — Bd. Educ., L. L. Smith, secy. having plans prepared by R. F. Felchlin Co., Patterson Bldg., Edison Technical School. $200,000.

Calif., Oakland — CHURCH — First Christian Church, H. Bruden, pastor, having plans prepared by W. H. Weeks, 369 Pine St., San Francisco, brick or concrete, 29th St. and Fairview Ave. $250,000.

Calif., Sanger—SCHOOL—Sanger High School Dist., defeated $270,000 bonds, additional wings and auditorium for high school. Noted Feb. 25.

Que., Quebec—SCHOOL—Roman Catholic School Comn., c/o I. Laroche, pastor, raising $200,000 funds 3 story, 300 x 75 ft., rein.-con., brick and timber, plain foundation.

Bids Desired

Mass., Melrose (Ind. br. Boston) — SCHOOL — City, Mayors Office City Hall, taking bids 2 story and basement, 58 x 173 ft., and 61 x 76 ft., brick and stone, 1st and 11th Sts., Winthrop School Sect. $200,000. C. R. Greco, 11 Beacon St., Boston, archt.

Mass., Middleboro — HIGH SCHOOL — Mar. 29, by Town, A. G. Newkirk, chn. building com., 2 story and basement, brick and stone high school. To exceed $150,000. W. H. McLean, 88 Tremont St., Boston, archt.

Conn., Waterbury—CHURCH—Mar. 29, by Immaculate Conception Church, c/o W. J. McQuirk, pastor, 1 story and basement, brick and stone, West Main St. $250,000. Maginnis & Walsh, 100 Boylston St., Boston, archts. Noted Feb. 18.

Md., Baltimore—CHURCH—Apr. 1, by Parker, Thomas & Rice, archts., Union Trust Bldg., 1 story and basement, irregular shape, stone, plain foundation, Garrison Ave. and Edgerton Rd., for Church of Holy Nativity, c/o architects. $160,000.

Fla., Jacksonville—SCHOOLS—Apr. 13, by Bd. Pub. Instruction, 2 auxiliary Junior High Schools, one at Myra St. between Stockton and Barrs Sts., and other on 11th St. between Main and Hubbard Sts., in Special Tax School Dist., Duval Co. M. C. Greeley, 111 West Adams St., archt.

Ala., Tuscaloosa—CHEMISTRY—Apr. 15, by Warren, Knight & Davis, archts., Empire Bldg., Birmingham, 3 story, 60 x 150 ft., rein.-con., brick and stone, on campus, here, for State Building Comn., Montgomery. $150,000.

O., Ashtabula—HIGH SCHOOL—Mar. 30, by Bd. Educ., 3 story and basement, brick, steel and concrete high school. $350,000. W. R. McCormack & F. C. Warner, Bulkley Bldg., Cleveland, archts. C. V. Martin, Ashtabula, associated archt. Noted Nov. 26.

Ind., Churubusco—SCHOOL—Apr. 6, by J. A. Pressler, trustee Smith School Twp., Whitley Co. (Columbia City), and Advisory Bd., Central Bldg., constructing and remodeling school addition, Churubusco Twp. $55,000. L. Bowers, Utility Bldg., Ft. Wayne, archt.

Ind., Evansville—SCHOOLS—Apr. 5, by Bd. School Trustees, additions incl. gymnasium, class rooms, cafeteria, etc., to Francis Joseph Reitz High School, $175,000, also additions, incl. concrete and steel stadium, class rooms, etc., to Benjamin Bosse High School, $220,000. J. C. Llewellyn & Co., 38 Dearborn St., Chicago, archts. C. L. Troutman, Evansville, archt. Noted Dec. 3.

Mich., Highland Park (br. Detroit)—CHURCH—Mar. 29, by Lane Davenport & Peterson, archts., 1017 Charlevoix Bldg., Detroit, 3 story and basement, 115 x 140 ft., rein.-con., brick and steel, plain foundation, for Highland Park Baptist Church, 25 Ford Ave., here. $150,000. Noted Mar. 1.

Mich., Kingsford Heights (br. Iron Mountain)—SCHOOLS—Apr. 1, by Bd. Educ., Breitung Twp., two 2 story and basement, brick and tile, plain foundations. F. E. and G. F. Parmelee, Iron Mountain, archts. $90,000 each. Noted Feb. 11.

Kan., Lawrence — AUDITORIUM — Apr. 15, by C. D. Cuthbert, state archt., State Capitol Bldg., Topeka, 160 x 200 ft., 2 balconnies, 6,700 seating capacity, rein.-con., steel and stone, for Kansas University, here. $250,000. Noted Dec. 10.

Calif., Los Angeles — CHURCH and SCHOOL—H. Cross, archt., Merchants Natl. Bank Bldg., taking bids rein.-con., Pico Blvd. and Arlington St., for Arlington Ave. Presbyterian Church. $150,000.

Calif., Los Angeles—SCHOOL—Mar. 31, by Bd. Educ., 28th St. School, 2 story, rein.-con., for Los Angeles City School Dist. $150,000. Hunt & Chambers, Hibernian Bldg., archt.

Calif., Petaluma—CHURCH—L. J. Devlin, archt., Pacific Bldg., San Francisco, taking bids rein.-con. and steel church, for St. Vincents Catholic Church. $150,000. Noted Oct. 29.

Calif., Whittier—SCHOOLS—Apr. 5, by Trustees Whittier City School Dist., for Bailey, Longfellow and Jackson Schools, 2 story each, rein.-con. $225,000. Rustin & Ashley, Chamber of Commerce Bldg., Los Angeles, archts.

Sask., Lebret—SEMINARY—Mar. 31, by Rev. Beys, archt., St. Boniface, Man., 4 story, 33 x 51 x 85 x 187 ft. brick seminary, here, for Oblate of Mary Immaculate, $200,00.

Bids Received

Md., Baltimore—SCHOOL—Bd. Awards, City Hall, Mar. 17, 3 story and basement, 64 x 252 ft., brick and steel, plain foundation, Preston and Walnut Sts., from Mason, Curley, Brady, 308 West Madison St., $327,000. Noted Mar. 4.

O., Lakewood (Cleveland P. O.) — SCHOOL — Bd. Educ., G. W. Grill, clk., 1456 Warren Rd., Cleveland, 2 story and basement, brick, steel and concrete, Lake Ave., here, from M. B. Parker Constr. Co., 1836 Euclid Ave., Cleveland, $143,772. Noted Feb. 25.

Contracts Awarded

Mass., Winchester—SCHOOL—Town, C. R. Main, chn., 2 story and basement, brick and steel, Highland Ave., to W. J. Delaney, 283 Essex St., Lawrence, $98,150. Noted Feb. 25.

Buildings—Educational, Religious (Cont.)

Mass., Woburn — CHURCH — Baptist Church, J. E. Vassar, pastor, 1 story and basement, brick and steel, Winn and Park Sts., to F. C. Alexander, 294 Washington St., Boston. Archts. est. $150,000.

Conn., Danielson — HIGH SCHOOL — Town, F. A. Jacobs, chn. com., 2 story and basement, 50 x 91 ft., and 50 x 91 ft. brick and steel additions, to A. F. Smiley Constr. Co., 308 Main St., Pawtucket, R. I. Archts. est. $150,000. Noted Feb. 25.

Conn., Torrington—CHURCH—St. Mary's Church, J. P. Kowelski, Forest Court, 1 story and basement, 60 x 115 ft., granite, Union St., to C. Abbadessa, 159 Winthrop St., New Haven. Archts. est. $150,000. Noted Feb. 11.

Conn., Middletown — LIBRARY — Wesleyan University, J. H. McConaughty, pres., for Olen Memorial Library, brick and stone, to H. Wales Lines Co., Meriden. Archts. est. $200,000. Noted Feb. 25.

N. Y., New York—PAROCHIAL SCHOOL —St. Anns Roman Catholic Church, L. Abbotts, pastor, 312 East 110th St., 5 story, brick, steel and stone, plain foundation, East 110th St., to Sobray-Whitcomb Co., 105 West 40th St. Archts. est. $200,000.

N. J., Plainfield—CHURCH—First Baptist Church, brick, steel and stone, plain foundation, to N. Kidde & Co., 140 Cedar St., New York City, $204,500. Noted Nov. 5.

Pa., Phila.—COLLEGE—St. Joseph College, A. G. Brown, pres., 17th and Stiles Sts., 2½ story and basement, 184 x 241 ft., rein.-con., brick, steel and stone, plain foundation, 54th St. and city line, to J. McShane, 1713 Sansom St. Archts. est. $1,000,000. Noted Feb. 18.

Md., Baltimore—HOME—Bureau Catholic Charities, 415 Cathedral St., 4 story and basement, 120 x 250 ft., brick and stone, plain foundation, at St. Agnes Hospital, to Frainie Bros. & Haigley, 19 West Franklin St., $500,000. Noted Mar. 11.

D. C., Wash.—HIGH SCHOOL—Dist. Comrs., Dist. Bldg., wing for MacFarland Junior High School, to F. E. Hartman Co., Inc., Charlottesville, Va., $145,225. Noted Mar. 11.

N. C., Goldsboro—HIGH SCHOOL—City, 2 story, fireproof high school, to J. W. Stout & Co., Sanford, $218,313. Noted Mar. 4.

O., Dayton—SCHOOL—Bd. Educ., Ludlow Bldg., 2 story, rein.-con. and brick, plain foundation, Huffman St., to H. R. Blagg Co., 1229 East 3rd St., $368,580. Noted Feb. 25.

O., Mt. Vernon—CHURCH—Bd. Trustees First Methodist Episcopal Church, general contract 2 story and basement, 135 x 140 ft., concrete and brick, to Hawkins Constr. Co., Newark, $140,100. Noted Mar. 11.

Ind., Indianapolis—SCHOOL—Bd. School Comrs., 150 North Meridian St., general contract School 78, Sherman Dr. and Vermont St., to Schlegel & Roehm, 606 Lombard St., $120,407. Noted Mar. 4.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., 2 story and basement, rein.-con., brick and steel, plain foundation, Martin and McGraw Ave., to Rosewarne, McNabb & Worswick, 333 State St., $682,940. Noted Mar. 18.

Mich., Melvindale (Dearborn P. O., R. F. D. 2)—SCHOOL—Bd. Educ., 2 story and basement, 100 x 200 ft., rein.-con., brick and steel, plain foundation, to F. R. Patterson Constr. Co., 2631 Woodward Ave., Detroit, about $175,000. Noted Feb. 18.

Ill., Chicago—SCHOOL—Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., general contract Walter S. Christopher School for Crippled Children, 1 story and basement, 210 x 210 ft., brick and terra cotta, West 51st St. and South Artesian Ave., to S. N. Nielsen Co., 3059 Augusta St. Noted Feb. 11.

Wis., Marshfield — HIGH SCHOOL — School Dist. 1, 3 story addition, 36 x 207 ft. 1 story, 62 x 108 ft., and 1 story 70 x 104 ft., rein.-con., brick and tile additions to vocational and Junior high school, plain foundations; to T. J. Molzahn, 2 Majestic Bldg., La Crosse, $189,290.

Wis., Milwaukee—SCHOOL—St. Stanislaus Congregation, 401 Mitchell St., 3 story and basement, 68 x 133 ft., rein.-con. and brick, plain foundation, Grove St., to S. Czaplewski & Sons, 878 2nd Ave. Archts. est. $275,000. Noted Feb. 25.

Minn., Minneapolis—BOTANY——Dept. Administration & Finance, Capitol, St. Paul, 3 story and basement, rein.-con., brick and stone on University Campus, here, general contract, to Devereaux-Olson Constr. Co., 716 11th Ave. S., $153,251. Noted Mar. 18.

Minn., Rochester—SCHOOL—Bd. Educ., S. L. Seamon, clk. Bd. Educ., general contract 3 story and basement, 64 x 244 ft., rein.-con., brick and stone school, to M. Madsen Co., 702 Natl. Bldg., Minneapolis, $187,000. Noted Mar. 18.

Mo., St. Louis—SCHOOL—Bd. Educ., 911 Locust St., general contract 3 story, rein.-con., brick and stone, Von Phul and Linton Sts., to H. Lloyd Building & Constr. Co., Syndicate Trust Bldg., $245,790. Noted Mar. 18.

Wash., Olympia — HIGH SCHOOL — School Dist., general contract 4 story, 77 x 150 ft., rein.-con., brick and steel addition, Wood pile foundation, Washington St. between 12th and 13th Aves., to Reid Bros. Constr. Co., Montesano, $129,497; heating and ventilating, to Rushlight, Hastorf & Lord, 371 Hawthorne Ave., Portland, Ore., $30,418. Noted Feb. 18.

Calif., Pasadena—HIGH SCHOOL—Bd. Educ., general contract Center-Oak Knoll High School, rein.-con., to United Building & Finance Co., 1262 North Fair Oaks Ave., $105,140. Noted Mar. 18.

Federal Government Work

Proposed Work

Mass., Bedford — Hospital — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., making surveys site for hospital, here. $1,500,000.

Bids Desired

Mass., Rutland Heights — Refrigeration and Ice Plant—Apr. 20, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., refrigeration and ice plant, at U. S. Veterans Hospital 89, here. L. H. Tripp, ch. Constr. Div.

Mass., South Boston (sta. Boston) — Spec. 5185 — Dredging—May 5, by Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging at dry dock, here. Noted Feb. 18.

Pennsylvania—Recreation, etc.—Apr. 27, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing recreation building, covered walk, duplex officers quarters, etc., at U. S. Veterans Hospital 103, Aspinwall-Sharpsburg. F. T. Hines, dir.; adv. E. N.-R. Mar. 25.

Pa., Chester — Remodeling — Apr. 13, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

D. C., Wash.—Granite—Apr. 22, at office Executive Officer Arlington Memorial Bridge Comn., granite for Arlington Memorial Bridge across Potomac River; adv. E. N.-R. Mar. 25. Noted Feb. 11.

D. C., Wash.—Hospital—Apr. 21, by Director U. S. Veterans Bureau, c/o Constructing Quartermaster, Munitions Bldg., mess and kitchen, ward buildings, etc.; also by Constructing Quartermaster, moving buildings, grading sites, etc., all above at Walter Reed General Hospital, Army Medical Center; adv. E. N.-R. Mar. 25.

Ala., Mobile — Quarantine Station — Apr. 16, by Treas. Dept. at office Supervising Archt., Wash., D. C., constructing quarantine station, here.

La., New Orleans—Earthwork—Apr. 15, by U. S. Engineers Office, 140 Decatur St., 6,500,000 cu.yd. earthwork in lower Tensas, Atchafalaya, LaFource, Barataria, Pontchatoula, Lake Borgne and Bayou Bouoff Levee Dists.

Tenn., Memphis—Levee—Apr. 12, by Dist. Engineer Mississippi River Comn., 5,600,000 cu.yd. levee earthwork in Upper and Lower St. Francis, Reefoot and White River Levee Dists.

Wis., Milwaukee—Cement—Mar. 30, by U. S. Engineer Office, 20,300 bbl. cement.

Tex., Abilene—Addition—Apr. 6, Treas. Dept. at office Supervising Archt., Wash., D. C., adding swing room at U. S. Post Office, here.

Calif., San Diego—Sewer—Spec. 5189—Mar. 31, by Bureau Yards & Docks, Navy Dept., Wash., D. C., outfall sewer at destroyer base, here. Noted Mar. 11.

Calif., Santa Barbara—Remodeling—Apr. 12, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

Bids Received

Pa., Lebanon—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here, from E. M. Spitler, Lebanon, $13,500. Noted Mar. 11.

Fla., St. Augustine—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., Mar. 19, remodeling and enlarging U. S. Post Office, here, from J. T. Parker, St. Augustine, $10,725. Noted Mar. 11.

Mich., Camp Custer (br. Battle Creek) — Walks—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Mar. 16, covered walks from O. F. Miller Co., Kalamazoo, $56,329 (2) $50,921 (3) add $365 (4) add $270. Noted Mar. 4.

Minn., St. Paul—Sidewalks—Treas. Dept. at office Supervising Archt., Wash., D. C., sidewalks at U. S. Post Office, here, from J. Sandquist, St. Louis, Mo., (a) $1,857 and (b) $1,298.

Oregon—Outlet Pipes—Bureau Reclamation, Dept. Interior, Denver, Colo., May 3, 54 in. steel outlet pipes for McKay Dam, Umatilla Project, here, from Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., (1) $5,485 (1a) $6,350 (2) $15. Noted Feb. 4.

Calif., Eureka — Radio Tower — Spec. 5161—Bureau Yards & Docks, Navy Dept., Wash., D. C., Mar. 17, steel and concrete radio tower at Naval Radio Station, here, from Eureka Boiler Wks., Eureka, (1) $3,150 (3) $2,850. Noted Mar. 4.

Contracts Awarded

Pa., Erie—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here, to A. M. Lundberg, Times Bldg., St. Louis, Mo., $19,400. Noted Mar. 11.

N. C., Cape Lookout (mail Beaufort) — Compass Station—Bureau Yards & Docks, Navy Dept., Wash., D. C., two 100 ft. radio towers at Naval Radio Compass Station, here, to W. F. Martens, 212 East Ave., Rochester, N. Y., $4,900 (150 days). Noted Mar. 11.

Ala., Mobile—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office and Custom House, here, to A. C. Samford, 619 Shepard Bldg., Montgomery, $11,000. Noted Mar. 18.

Ind., Michigan City—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., 1 story extension and remodeling U. S. Post Office, here, to W. MacDonald Constr. Co., Odd Fellows Bldg., St. Louis, Mo., $18,660. Noted Mar. 18.

Ind., Terre Haute—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., post office and court room, here, to R. E. Meyer, 1901 Washington Ave., $9,700. Noted Mar. 18.

Mich., Jackson—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., extension to U. S. Post Office and Court House, here, to Universal Constr. Co., Ft. Wayne, Ind., $14,700. Noted Mar. 18.

Kan., Hutchinson—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here, to A. M. Lundberg, Times Bldg., St. Louis, Mo., $19,790. Noted Mar. 11.

Unclassified

Proposed Work

Pier and Boardwalk—Old Orchard, Me.—Whiteway Amusement Co., made plans pier and boardwalk. $28,000. Libby & Johnson, 200 Main St., Saco, engrs.

Subway Station—Boston, Mass.—Boston Elevated R.R., 31 St. James Ave., plans extending subway station 136 ft., Charles and Cambridge Sts. $200,000. Private plans.

Lighting System — Boston, Mass. — City Council plans to appropriate $25,000 lighting East Boston Airport. Engineer not selected.

Golf Course — Wellfleet, Mass. — See "Buildings—Commercial."

Swimming Pools — Scranton, Pa. — City Council appropriated $110,000, and soon takes bids constructing swimming pools in North, South and West Scranton.

Suburban Development — Greensboro, N. C.—Broadacres, Inc., purchased 150 acre site adjoining Sedgefield development, and plans suburban development, incl. sewers, waterworks, streets, etc. $50,000. R. B. Cridland, Bailey Bldg., Phila., Pa., engr.

Wharf—Wilmington, N. C.—Plans election $100,000 bonds, constructing wharfage on Old Liberty St. Shipyard.

Transmission Line — Biloxi, Miss. — See "Streets and Roads."

Stadium—Lafayette, La.—Southwestern Louisiana Institute, making plans rein.-con. and steel stadium, at athletic field. $50,000. Favrot & Livaudis, Hibernia Bldg., New Orleans, engrs.

Gas Mains—Indianapolis, Ind.—Citizens Gas Co., 47 South Pennsylvania St., C. C. Cray, purch. agt., plans laying 160,000 lin. ft. 4- to 16-in. c.i. pipe, etc., during 1926.

Swimming Tank — Detroit, Mich. — See "Buildings—Commercial."

Swimming Pool — Chicago, Ill. — See "Buildings—Commercial."

Unclassified (Continued)

Police Alarm System—Green Bay, Wis.—W. L. Kerr, city clk., plans police alarm system. $30,000.

Transmission Line—Sparks, Okla.—See "Waterworks."

Dock—Long Beach, Calif.—Making preliminary plans rein.-con. dock with transit shed on Channel 3, Slips 4 and 6. $750,000. Noted Dec. 24.

Ornamental Lighting System—Los Angeles, Calif. — Los Angeles Co. made plans steel standards on portions of Allen, New York Aves., etc., Co. Impvt. 518. $25,000 or more.

Tunnel — Oakland, Calif. — East Bay Municipal Utility Dist., made plans Claremont tunnel, 18,000 ft. long, 9 ft. diam. A. P. Davis, Oakland, ch. engr.

Swimming Pool—Petaluma, Calif.—City defeated $65,000 bonds, swimming pool. Noted Jan. 14.

Rolling Doors — San Francisco, Calif. — State Bd. Harbor Comrs., Ferry Bldg., making revised plans steel rolling doors for Pier 50. $20,000-$30,000. F. G. White, Ferry Bldg., ch. engr.

Fire Alarm Boxes—San Francisco, Calif.—City and San Francisco Co. making plans 150 fire alarm boxes in various sections. M. M. O'Shaughnessy, city engr.

Hydro-electric Development — Willows, Calif. — See "Buildings—Industrial."

Transmission Line—Cap-de-la-Madeleine, Que. — Shawinigan Water & Power Co., Shawinigan Falls, plans 6 mi. transmission line with 40 steel towers, 16 ft. high, here. $40,000. A. Dessoules, Shawinigan Falls, engr.

Transmission Line—Rouyn, Que.—Northern Canada Power Co., Timmins, Ont., plans 40-45 mi. probably steel transmission line from hydro-electric generating station on Quinze River to Rouyn mining camp, here. $400,000.

Switches, etc.—London, Ont.—Utilities Comn., Hydro Offices, plans 2 switches and additional transformers, remodeling and enlarging power control equipment. $25,000. E. V. Buchanan, c/o owner, engr.

Subway—Timmins, Ont.—Temiskaming & Northern Ontario Ry., North Bay, making plans concrete nad steel subway under railroad tracks, here. $25,000. S. B. Clement, North Bay, engr.

Bids Desired

Swimming Pool—Lawrence, Mass.—Mar. 29, by City, swimming pool in South Lawrence. $55,000. J. E. Allen, 283 Essex St., engr. Noted Mar. 4.

Bandstand, etc. — Thomaston, Conn. — Town, R. H. French, ch. com., High St., taking bids concrete bandstand, adding soil, sidewalks, etc., Center Park. $25,000. T. H. Desmond, Simsbury, engr.

Signal Tower—New York—Apr. 5, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, interlocking signal tower, at New Utrecht Ave. and 62nd St., Brooklyn; also sewer and water connections in various locations of Rapid Transit R.R., in Boros Brooklyn, Manhattan, Bronx and Queens.

Stable, etc.—Brooklyn, N. Y.—Apr. 1, by Armory Bd., J. B. Trainer, secy., City Hall, New York, additional stables and storage accommodation at armory of 101st Cavalry, 1579 Bedford Ave., here.

Lighting System—Biloxi, Miss.—Apr. 5, by Mayor and Comn. Council, White Way system on East and West Blvd. from Oak St. to city limits, 144 ten ft. concrete lighting standards with ornamental tops, etc. Hawkins & Madding, Biloxi and Gulfport, consult. engrs. Noted Mar. 18.

Unloader—New Orleans, La.—Apr. 20, by Bd. Port Comrs., New Court House, marine leg unloader with 1,000 lin.ft. belting, 8 ball bearing electric motors, 15 to 40 hp. each, etc. at Stuyvesant Docks.

Wall—Cleveland, O.—Mar. 26, by City, W. R. Hopkins, mgr., gravity or rein.-con. retaining wall along Doan Brook in Rockefeller Park. $50,000. S. Newman, City Hall, engr.

Stadium, etc. — Evansville, Ind. — See "Buildings—Education, Religious."

Power Plant Equipment—Richmond, Ind.—Apr. 12, by L. F. Ross, medical supt. Eastern Indiana Hospital for Insane, new 250 kva. engine and generator unit, transformer, switchboard, etc. in hospital. Snider & Rotz, 703 Merchants Bank Bldg., Indianapolis, engrs.

Transmission Line — Wisconsin — See "Contracts Awarded."

Culverts — Logan, Ia. — See "Streets and Roads."

Bids Received

Subway, etc. — Wash., D. C. — Dist. Comrs., Dist Bldg., Mar. 11, subway and bridge, at Van Buren St. and Baltimore and Ohio R.R. tracks, from Potomac Constr. Co., Wash., D. C., $69,697. Noted Mar. 4.

Ornamental Lighting System—Los Angeles, Calif. — Ornamental lighting system, incl. 100 precast ornamental stone posts, on Figueroa St. between Jefferson St. and Vernon Ave., etc., from A. C. Rice, 1957 Santee St., $33,436. Engrs. est. $36,722.

Wharf—Monterey, Calif.—City Council, Municipal Wharf 2, from A. W. Kitchen, 110 Market St., San Francisco, $199,977. Noted Mar. 11.

Contracts Awarded

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., subway connecting Manhattan-Bronx Subway to Manhattan Elevated line, Agreement "EE," to M. D. Walsh, 1124 Findlay Ave., $218,920. Noted Mar. 11.

Power Development — Union, Pa. — See "Buildings—Industrial."

Stadium—Shreveport, La.—School Bd. Caddo Parish, rein.-con. stadium, for C. E. Byrd High School, to W. H. Buchanan, Haynesville, $44,950. Noted Dec. 31.

Lighting System—Kenilworth, Ill.—Randolph Perkins Co., engrs., 38 South Dearborn St., Chicago, 370 street lights, here, to A. Johnson of Electrical Contg. Co., 844 Rush St., Chicago, for Village. $72,871. Noted Jan. 28.

Transmission Line—Wisconsin—Wisconsin Valley Electric Co., F. Nolte, purch. agt., 206 3rd St., Wausau, will build 40 mi. transmission line between Wausau and Antigo by day labor. Private plans. Noted Mar. 11.

Culverts—Iowa—State Hy. Dept., Ames, 28 concrete culverts on Federal Aid Project 63-B and F, Lucus Co., to Repass Bros., Des Moines, $14,857; 16 concrete culverts on Federal Aid Project 274-A and B, Butler Co., to L. O. Kimball, Clear Lake, $5,100; 21 culverts on Federal Aid Project 197-A, Allamakee Co., to F. Carlson, Decorah, $6,044; 4 culverts on Primary Rd. 342-B, Mahaska Co., to A. P. Munson, Marion, $1,970. Grand total $27,971. Noted Feb. 25, under "Streets and Roads."

Ornamental Lighting System — Long Beach, Calif. — City Council, 200 metal standards on Atlantic Ave., to J. C. Perry, Detwiler Bldg., Los Angeles, $78,555. Noted Mar. 11.

Ferry Slip—Tiburon, Calif.—Northwestern Pacific R.R. Co., 64 Pine St., San Francisco, 350 ft. ferry slip and pile and timber approach, to Healy-Tibbitts Constr. Co., 64 Pine St., San Francisco.

Pier — North Vancouver, B. C. — Vancouver Oil Refining Co., 30 x 150 ft. pier and 700 ft. 10 ft. trestle for track and pipe line, on creosoted piles, to Vancouver Pile Driving Co. Ltd., 207 Hastings St. W., Vancouver, $25,000.

Materials

Proposed Work

Tar, etc.—Trenton, N. J.—Mercer Co. takes bids 100,000 gal. tar and 5,000 tons pebbles. $30,000. H. F. Harris, Court House, engr.

Bids Desired

Portland Cement—Boston, Mass.—Apr. 1, by Supply Dept., furnishing Portland cement to various city departments.

Cement, etc.—Springfield, Mass.—Apr. 7, at office City Clerk, Administration Bldg., asphaltic cement, asphalt, asphaltic and non-asphaltic road oils, hot and cold tars, castings, sewer pipe, etc. R. P. Marsh, supt. Dept. Streets & Eng.

Brick—Hartford, Conn.—Mar. 30, by Bd. Contr. & Supply, City Hall, 100,000 brick to be used for catch basins and repairing sewers.

Limestone Dust, etc.—Bridgeton, N. J.—Mar. 30, by City Council, City Hall, C. P. Corey, clk., 2,000 tons more or less limestone dust, and 1,200 tons more or less refined asphalt, delivered at city's siding at Asphalt Plant.

Cement, etc.—Collins, Miss.—Apr. 6, by F. C. McRaney, city clk., 1 car load cement in 100 lb. sacks, and 1 car load 18 and 20 in. concrete tiling.

Gravel, etc.—Greenville, Miss.—Apr. 2, by Highway Comrs. Washington Co., 7,000 tons washed sand, 10,000 tons washed gravel, 14,000 bbl. Portland cement, 25,000 ft. ¾ in. plain round steel barges, 18 ft. long, and 16,000 ft. 4 ft. long, 20,000 ft. ½ in. square deformed steel bars, 4 ft. long, and 25,000 ft. iron center strips, etc. $75,000.

Road Oil—Nashville, Tenn.—Mar. 30, by Bd. Pub. Wks., 25 tank cars asphaltic road oil. H. E. Howse, mayor. Noted Mar. 4.

Tar—Cincinnati, O.—Apr. 2, by Comrs. Hamilton Co., approximately 300,000 gal. Grade 1 tar. $33,000. E. A. Gast, Court House, engr.

Coal Cinders—Cleveland, O.—Apr. 2, by City, A. K. Hoare, purch. agt., 4,000 tons No. 1 coal cinders, for use at City Air Mail Field.

Creosoted Fir and Oak—Chicago, Ill.—Mar. 30, by Dept. Pub. Wks., City Hall, 51,080 ft. creosoted Douglas fir and red oak timber, f.o.b. at Municipal Plant, 31st St. and Sacramento Ave. A. A. Sprague, comr.

Tar and Asphalt—Clayton, Mo.—Mar. 31, by R. Jablonsky, engr. St. Louis Co., Court House, 300,000 gal. tar or asphalt equal to Tarvia or Asphalt Association Asphalt A 1 and 50,000 gal. tar equal to Tarvia A and B.

Crushed Stone, etc.—Toronto, Ont.—See "Streets and Roads."

Pipe, etc.—Vancouver, B. C.—Mar. 29, by City Council, 10,000 ft. 6 in. 5,000 ft. 8 in. and 5,000 ft. 12 in. cast iron pipe, one hundred 6 in., fifty 8 in. and fifty 12 in. valves. $15,000. C. Brackenridge, City Hall, engr.

Bids Received

Portland Cement, etc.—Brooklyn, N. Y.—J. A. Guider, pres. Brooklyn Boro, Boro Hall, Mar. 17, 8,000 bbl. Portland cement and 4,000 cu.yd. paving concrete sand, from M. F. Hickey Co., Inc., 83 9th St., $21,920 and $4,160 respectively; 5,000 cu.yd. course aggregate and 3,000 tons limestone dust, from New York Trap Rock Co., 101 Park Ave., New York City, $8,650 and $12,900 respectively; 3,000 cu.yd. sand grit, from Rosoff Sand & Gravel Co., 152 West 42nd St., New York City, $5,370; 2,000 cu.yd. paving sand, from T. E. McCormick, 810 Lincoln Rd., $2,250; 600,000 gal. asphaltic road oil, from Standard Oil Co. of New York, 26 Bway., New York City, $37,140; 600,000 gal. asphalt cement, from Warner Quinlan Co., 79 Wall St., New York City, $38,160; 500,000 gal. fuel oil, from Texas Co., 17 Battery Pl., New York City, $22,770; 12,000 cu.yd. asphalt sand, from Z. Mahoney, 557 46th St., $12,360; 8,000 cu.yd. binder stone, etc., from Calvin Tompkins Co., 30 Church St., New York City, $15,520; and 15,000 cu.yd. steam cinders from W. F. Rourke, 259 77th St., $17,250. Noted Mar. 11.

Cable, etc.—Milwaukee, Wis.—Central Bd. Purchases, Mar. 15, 41,405 ft. lead encased paper insulation cable, from Amer. Electric Wks., Phillipsdale, R. I., at $0.30 and $0.502 per ft.; and 20,000 ft. vitr. clay conduits, from Graybar Electric Co., 460 Milwaukee St., $0.089. Noted Mar. 11.

Contracts Awarded

Asphaltic Cement—St. George, N. Y.—J. A. Lynch, pres. Richmond Boro, Boro Hall, to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, 276,000 gal. asphaltic binder $38,640, 2,600 cu.yd. 1½ in. stone $8,450, 450 cu.yd. ¾ in. stone $1,462, 500 cu.yd. screenings $1,625, 1,850 cu.yd. trap rock screenings $7,400, and 1,650 cu.yd. gravel for Dist. 1, $4,125; to Liberty Mason Supply Co., 67 Grant St., 1,100 cu.yd. concrete sand $2,453, 3,800 cu.yd. 1½ in. stone $11,932, 225 cu.yd. ¾ in. stone $707, 225 cu.yd. screenings $707; to Hygrade Builders Supply Co., 6th St. and 2nd Ave., Brooklyn, 3,900 cu.yd. 1½ in. stone $15,132, 175 cu.yd. ¾ in. stone $679, and 150 cu.yd. screenings $582; to J. Johnson Sons, 455 Bway., West New Brighton, 1,700 cu.yd. pea gravel for Dist. 2 $5,015, and 1,850 cu.yd. pea gravel for Dist. 3, $5,365, to Standard Oil Co., 26 Bway., New York City, 300 tons asphaltic cement $6,768; and to F. J. Lewis Mfg. Co., Eastern Blvd. and 177th St., New York City, 100,000 gal. road material $10,200. Grand total $121,242. Noted Mar. 4.

Cement — Detroit, Mich. — Comr. Purchase & Supplies, Marquette Bldg., 20,000 tons asphaltic cement to Dept. Pub. Wks., f.o.b. Detroit, to Standard Oil Co., 1011 4th St., $22.25 per ton in packages, and $18.50 per ton in tank cars.

Road Oil—Minneapolis, Minn.—A. P. Erickson, aud. Hennepin Co., 250,000 gal. road oil, to Standard Oil Co. of Indiana, 1937 Southeast 4th St., $0.0619 per gal. Noted Feb. 11.

Wood Blocks—St. Paul, Minn.—A. E. Eggert, city purch. agt., 2,000 sq.yd. 3½ in. 14-lb. oil impregnation, creosoted wood blocks, to Republic Creosoting Co., St. Louis Park, $2.35 per sq.yd. Noted Mar. 4.

Rails, Spikes, etc.—Vancouver, B. C.—Harbor Comrs., 280 tons 85 lb. rails, spikes etc., for terminal railway, to Leith, Murray & Co., 510 Hastings St. W., $24,000.

See proposal advertising on page 128, Advertising Section

HERCULES ON THE JOB

In Digging Machinery

Men can shovel to the degree that their backs hold out;

Machinery can dig to the degree that its power is steady.

Hercules Power typifies the highest development of the engine that has so universally replaced expensive and inefficient man power.

Hercules takes the machinery to the job—and stays on the job!

HERCULES MOTORS CORPORATION
CANTON, OHIO, U. S. A.

HERCULES

ON THE JOB ENGINES

Hercules Engines and Power Units are built in seven sizes, from 20 H.P. to 100 H.P. for every industrial requirement.

HERCULES MOTORS CORPORATION, CANTON, O., U. S. A.

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Hotel, Coral Gables, Fla., Coral Gables Rest Resort Corp. having plans prepared, $10,000,000.

Road work, Houston, Tex., Harris Co. voted $6,000,000 bonds for road work.

Hospital, Northport, N. Y., U. S. Veterans Bureau plans buildings, $3,000,000.

Plant, Chattanooga, Tenn., U. S. Cast Iron Pipe & Fdry. Co. having preliminary plans made, $3,000,000.

Theatre, Bellingham, Wash., Bellingham Development Co. plans theatre, $2,000,000.

Depot, Texarkana, Tex., Missouri Pacific R. R. Co. having plans prepared, $2,000,000.

Hospital, Brooklyn, N. Y., St. Johns Hospital having plans prepared, $1,500,000.

Hospital, Boston, Mass., U. S. Veterans Bureau plans building, $1,500,000.

Bids Wanted

Bridge, Maine, April 21, by State Hy. Dept., over Kennebec River, $3,000,000.

Hotel, Boston, Mass., J. R. Whipple Corp. taking bids, $3,000,000.

Apartment, Chicago, Ill., Childs & Smith, Archts. soon takes bids, $2,000,000.

Hotel, Birmingham, Ala., May 1, Jefferson Hotel Co., $1,500,000.

Apartment, Chicago, Ill., Omen & Lilienthal, about May 1, $1,300,000.

Theatre, store, and apartment, April 22, Z. E. Smith, Archt., $1,250,000.

Courthouse, San Antonio, Tex., April 16, by Phelps & De Wees, Engrs. & Archts., $1,000,000.

Office, Mt. Vernon, N. Y., April 8, by Westchester Lighting Co., $1,000,000.

Office and store, Chicago, Ill., H. L. Newhouse, Archt., April or May, $1,000,000.

Contracts

Office, San Francisco, Calif., E. H. Rollins & Sons to Dinwiddie Constr. Co., $6,500,000.

Office, Chicago, Ill., Holabird & Roche, Archt. to Dahl-Stedman Co., $3,000,000.

Power House, Bellows Falls, Vt., New England Power Co. to Power Constr. & Eng. Corp., $3,000,000.

Dam, Louisville, Ky., U. S. Engineer Office, to U. G. I. Contg. Co., $2,149,990.

Classified Index of Bids Wanted

Waterworks

Bids close — *See Eng. News-Record*

Apr. 3 Arlington, N. J. .....Mar. 25
Apr. 5 Claysville, Pa. .....Mar. 18
Apr. 5 Athens, N. Y. .....Mar. 18
Apr. 5 Norwalk, Conn. .....Mar. 25
Apr. 5 Biloxi, Mass. .....Mar. 25
Apr. 5 Akron, O. .....Apr. 1
Apr. 5 Boston, Mass. .....Apr. 1
Apr. 6 St. Louis, Mo. .....Mar. 25
Apr. 6 Detroit, Mich. .....Apr. 1
Apr. 6 Monroe, N. C. .....Mar. 25
Apr. 6 Belle River, Ont. .....Mar. 25
Apr. 6 Staunton, Ill. .....Mar. 25
Apr. 6 Vancouver, B. C. .....Apr. 1
Apr. 6 Boston, Mass. .....Apr. 1
Apr. 6 Pickens, Miss. .....Apr. 1
Apr. 6 New Port Richey, Fla. .....Apr. 1
Apr. 6 New York, N. Y. .....Apr. 1
Apr. 6 Brooklyn, N. Y. .....Apr. 1
Apr. 8 Port Arthur, Tex. .....Apr. 1
Apr. 8 Milwaukee, Wis. .....Apr. 1
Apr. 9 Trenton, N. J. .....Apr. 1
Apr. 9 El Segundo, Calif. .....Apr. 1
Apr. 9 Centuria, Wis. .....Apr. 1
Apr. 12 Los Angeles, Calif. .....Apr. 1
Apr. 12 New Britain, Conn. .....Mar. 18
Apr. 12 Marshall, Mo. .....Apr. 1
Apr. 14 Okmulgee, Okla. .....Apr. 1
Adv. Apr. 1.
Apr. 15 Salisbury, Md. .....Mar. 25
Adv. Mar. 25 and Apr. 1.
Apr. 15 Kenosha, Wis. .....Apr. 1
Apr. 16 Mackinaw, Mich. .....Mar. 25
Apr. 19 Ebensburg, Pa. .....Apr. 1
Apr. 19 St. Lambert, Que. .....Apr. 1
Apr. 28 Bath, N. Y. .....Apr. 1
Adv. Apr. 1.
Apr. 30 New Market, Va. .....Mar. 25

Sewers

Apr. 3 Ashtabula, O. .....Mar. 18
Apr. 5 Coatesville, Pa. .....Mar. 11
Apr. 6 St. George, N. Y. .....Mar. 25
Apr. 6 Los Angeles, Calif. .....Apr. 1
Apr. 6 Newark, N. J. .....Apr. 1
Apr. 7 Los Angeles, Calif. .....Apr. 1
Apr. 7 Rye, N. Y. .....Mar. 11
Apr. 7 San Francisco, Calif. .....Mar. 25
Apr. 7 Cleveland, O. .....Apr. 1
Apr. 7 Upper Arlington (Columbus P. O.), O. .....Apr. 1
Apr. 7 Long Island City, N. Y. ...Apr. 1
Apr. 8 Bromley, Ky. .....Mar. 18
Apr. 8 Boston, Mass. .....Apr. 1
Apr. 8 New York, N. Y. .....Apr. 1
Apr. 9 Boston, Mass. .....Apr. 1
Apr. 12 Buffalo, N. Y. .....Mar. 18
Apr. 12 Greenburgh, N. Y. .....Apr. 1
Adv. Mar. 25 and Apr. 1.
Apr. 12 Schaller, Ia. .....Apr. 1
Apr. 19 Hasbrouck Heights (Ind. br. Hackensack), N. J. .....Apr. 1
Adv. Apr. 1.
Apr. 20 Lakeland, Fla. .....Apr. 1
Adv. Mar. 25 and Apr. 1.

Bids close — *See Eng. News-Record*

Apr. 20 Muskegon, Mich. .....Apr. 1
Apr. 21 Antigo, Wis. .....Mar. 25
Apr. 21 Grand Rapids, Mich. .....Apr. 1
Adv. Apr. 1.
Apr. 29 North Chattanooga (br. Chattanooga), Tenn. .....Apr. 1
Adv. Apr. 1.

Waste Disposal

Apr. 7 Los Angeles, Calif. .....Mar. 25

Bridges

Apr. 3 Toronto, Ont. .....Mar. 25
Apr. 5 New Jersey .....Mar. 18
Apr. 5 Indianapolis, Ind. .....Mar. 25
Apr. 6 Gulfport, Miss. .....Mar. 18
Apr. 6 Jones, La. .....Mar. 4
Apr. 6 St. Louis, Mo. .....Mar. 11
Apr. 6 Iowa .....Apr. 1
Apr. 7 Larned, Kan. .....Apr. 1
Apr. 10 Johnstown, Pa. .....Mar. 25
Apr. 12 Indianapolis, Ind. .....Mar. 25
Apr. 13 Omaha, Neb. .....Apr. 1
Apr. 14 Mississippi .....Mar. 25
Apr. 16 Cincinnati, O. .....Mar. 25
Apr. 21 Maine .....Apr. 1
Apr. 22 North Dakota .....Mar. 18
Adv. Mar. 18 to Apr. 1.
Apr. 30 Duluth, Minn. .....Mar. 25

Dams

Apr. 6 New Brunswick, N. J. .....Mar. 18
Apr. 16 Livonia, N. Y. .....Mar. 25
Adv. Mar. 25 and Apr. 1.

Railways

Apr. 3 Missouri .....Mar. 25

Excavation, Drainage, Irrigation, Levees, River and Harbor

Apr. 2 Long Island City, N. Y. ...Apr. 1
Apr. 5 Peru, Ind. .....Mar. 4
Apr. 8 New York .....Mar. 11
Adv. Mar. 11 to Apr. 1.
Apr. 10 Pulaski, Ill. .....Apr. 1
Apr. 10 Sardis, Miss. .....Apr. 1
Apr. 13 Baton Rouge, La. .....Apr. 1
Apr. 14 Bradenton, Fla. .....Mar. 25
Adv. Mar. 25 and Apr. 1.
Apr. 14 New York .....Apr. 1
Adv. Apr. 1.
Apr. 15 Albany, N. Y. .....Mar. 18
Adv. Mar. 18 to Apr. 1.
Apr. 27 New York .....Apr. 1
Adv. Apr. 1.

Streets and Roads

Apr. 2 Roselle, N. J. .....Apr. 1
Apr. 2 New Providence, N. J. .....Apr. 1
Apr. 2 Long Island City, N. Y. ....Apr. 1

Bids close — *See Eng. News-Record*

Apr. 3 Warwick, R. I. .....Apr. 1
Apr. 3 Waynesburg, Pa. .....Apr. 1
Apr. 3 Toronto, Ont. .....Mar. 25
Apr. 3 Racine, Wis. .....Apr. 1
Apr. 4 Waterloo, Ia. .....Apr. 1
Apr. 5 Coatesville, Pa. .....Mar. 11
Apr. 5 Toccoa, Ga. .....Mar. 25
Apr. 5 St. Augustine, Fla. .....Mar. 25
Apr. 5 Elizabeth City, N. C. .....Mar. 25
Apr. 5 Cincinnati, O. .....Apr. 1
Apr. 5 Union, N. J. .....Apr. 1
Apr. 5 Colorado .....Apr. 1
Apr. 5 Dalton, Ga. .....Apr. 1
Apr. 5 Hobert, Okla. .....Apr. 1
Apr. 5 Storm Lake, Ia. .....Apr. 1
Apr. 5 Beaverton, Ont. .....Apr. 1
Apr. 5 Moorhead, Minn. .....Apr. 1
Apr. 5 Shorewood (Milwaukee P. O.), Wis. .....Apr. 1
Apr. 5 Sherman, Tex. .....Apr. 1
Apr. 6 Elbow Lake, Minn. .....Apr. 1
Apr. 6 Auburn, Ind. .....Mar. 18
Apr. 6 Newton, Kan. .....Mar. 18
Apr. 6 Winona, Miss. .....Mar. 11
Apr. 6 Louisiana .....Mar. 11
Apr. 6 St. Louis, Mo. .....Mar. 18
Apr. 6 Pennsylvania .....Mar. 18
Apr. 6 North Dakota .....Mar. 18
Apr. 6 Indiana .....Mar. 18
Apr. 6 Vincennes, Ind. .....Mar. 18
Apr. 6 Gainesville, Fla. .....Mar. 25
Apr. 6 Chico, Calif. .....Mar. 25
Apr. 6 New Market, N. J. .....Mar. 25
Apr. 6 Elizabeth City, N. C. .....Mar. 25
Adv. Mar. 25 and Apr. 1.
Apr. 6 Palmetto, Fla. .....Mar. 25
Apr. 6 Ventura, Calif. .....Mar. 25
Apr. 6 Ely, Minn. .....Mar. 25
Apr. 6 Washington .....Mar. 25
Apr. 6 Maryland .....Mar. 25
Adv. Mar. 25 and Apr. 1.
Apr. 6 Gulfport, Miss. .....Apr. 1
Apr. 6 San Rafael, Calif. .....Apr. 1
Apr. 6 Omaha, Neb. .....Apr. 1
Apr. 6 Pocahontas, Ia. .....Apr. 1
Apr. 6 Iowa .....Apr. 1
Apr. 7 Pennsylvania .....Mar. 18
Apr. 7 New Jersey .....Mar. 25
Adv. Mar. 25 and Apr. 1.
Apr. 7 Grand Rapids, Minn. .....Mar. 25
Apr. 7 Holland, Mich. .....Apr. 1
Apr. 7 Fayette, Miss. .....Mar. 25
Apr. 7 North Dakota .....Mar. 25
Apr. 7 Chicago, Ill. .....Apr. 1
Apr. 7 Wolback, Neb. .....Apr. 1
Apr. 7 West Bend, Wis. .....Apr. 1
Apr. 7 Nevada, Ia. .....Apr. 1
Apr. 7 Brooklyn, N. Y. .....Apr. 1
Apr. 7 Upper Arlington (Columbus P. O.), O. .....Apr. 1
Apr. 8 Winfield, Kan. .....Mar. 11
Apr. 8 North Dakota .....Mar. 25
Apr. 8 Ellensburg, Wash. .....Apr. 1
Apr. 8 Poughkeepsie, N. Y. .....Apr. 1
Adv. Apr. 1.
Apr. 8 Tomahawk, Wis. .....Apr. 1
Apr. 8 New York, N. Y. .....Apr. 1
Apr. 8 Louisiana .....Apr. 1

See proposal advertising on page 158, Advertising Section

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

16-in. c. i. B&S water main laid with LEADITE joints, tested to 195 lbs. water pressure.

Pipe Joint Knowledge

LEADITE is recognized to be the best material for making joints in cast iron bell and spigot water mains by thousands of water works men thruout the world.

Water works men who keep a check on their systems and make water waste surveys know that their pipe lines laid with LEADITE are tight.

Their experience with LEADITE has proven to them that LEADITE joints improve with age, and that the joints do not corrode or rust.

They know that LEADITE has been successfully tested ~~and~~ used for over 30 years.

They know LEADITE will flow around a 60-in. pipe just as easily as it does around a 4-in. pipe; size does not make any difference. They know LEADITE fills every crevice of the joint.

They know LEADITE eliminates the expense and drudgery of caulking.

They know the simplicity, economy and efficiency with which LEADITE can be used.

Give LEADITE a fair trial and convince yourself of its merit and many advantages.

Join the LEADITE users.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking Material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids close *See Eng. News-Record*

Apr. 9 Durham, N. C. .....Apr. 1
Adv. Apr. 1.
Apr. 9 Cincinnati, O. .....Apr. 1
Apr. 9 North Dakota .....Mar. 18
Apr. 9 Wichita, Kan. .....Apr. 1
Apr. 9 Tampa, Fla. .....Apr. 1
Apr. 12 Kentucky .....Mar. 11
Apr. 12 Akron, O. .....Mar. 11
Apr. 12 Kentucky .....Mar. 18
Apr. 12 Keokuk, Ia. .....Apr. 1
Apr. 12 California .....Apr. 1
Apr. 12 New Jersey .....Apr. 1
Adv. Mar. 25 and Apr. 1.
Apr. 12 Oakland, Calif. .....Apr. 1
Apr. 12 San Diego, Calif. .....Apr. 1
Apr. 13 Washington .....Apr. 1
Apr. 13 Baird, Tex. .....Apr. 1
Apr. 13 Louisiana .....Mar. 18
Apr. 13 St. Louis, Mo. .....Mar. 25
Apr. 13 North Dakota .....Apr. 1
Apr. 14 North Dakota .....Apr. 1
Apr. 14 Florida .....Mar. 25
Apr. 14 Delaware .....Mar. 25
Apr. 14 Houma, La. .....Apr. 1
Apr. 15 Anderson, Ind. .....Apr. 1
Apr. 15 Birmingham, Ala. .....Mar. 18
Apr. 15 Birmingham, Ala. .....Mar. 11
Apr. 15 Tarrant City, Ala. .....Mar. 18
Apr. 15 North Dakota .....Apr. 1
Apr. 15 Louisiana .....Mar. 25
Apr. 15 Fine, N. Y. .....Apr. 1
Adv. Apr. 1.
Apr. 15 Virginia .....Apr. 1
Adv. Apr. 1.
Apr. 16 Oswego, Kan. .....Mar. 25
Apr. 16 Brownsville, Tex. .....Apr. 1
Apr. 17 Oconomowoc, Wis. .....Apr. 1
Apr. 19 Floydada, Tex. .....Apr. 1
Adv. Apr. 1.
Apr. 19 Minneapolis, Minn. .....Apr. 1
Apr. 20 Pennsylvania .....Apr. 1
Adv. Apr. 1.
Apr. 20 Birmingham, Ala. .....Mar. 11
Apr. 20 Lyons, Kan. .....Mar. 25
Apr. 20 New York .....Apr. 1
Adv. Apr. 1.
Apr. 21 Freehold, N. J. .....Apr. 1
Adv. Apr. 1.
Apr. 28 Mobile, Ala. .....Apr. 1
Adv. Apr. 1.
Apr. 30 West Virginia .....Apr. 1
Adv. Apr. 1.
May 1 Birmingham, Ala. .....Mar. 25
May 1 Florence, Ala. .....Apr. 1

Buildings—Commercial

Apr. 2 Phila., Pa. .....Apr. 1
Apr. 5 Mansfield, O. .....Mar. 25
Apr. 6 Fresno, Calif. .....Mar. 18
Apr. 7 Upper Darby (br. Phila.), Pa. .....Apr. 1
Apr. 8 Mt. Vernon, N. Y. .....Apr. 1
Apr. 8 Ponca City, Okla. .....Apr. 1
Apr. 9 Urbana, Ill. .....Mar. 25
Apr. 12 Wash., D. C. .....Apr. 1
Apr. 16 San Antonio, Tex. .....Apr. 1
May 1 Birmingham, Ala. .....Apr. 1
May 4 Iowa City, Ia. .....Apr. 1

Buildings—Industrial

Apr. 6 East Greenwich, R. I. .....Apr. 1
Apr. 8 Rome, N. Y. .....Mar. 18
Apr. 14 Highlands, N. C. .....Apr. 1

Buildings—Educational, Religious

Bids close *See Eng. News-Record*

Apr. 2 New Britain, Conn. .....Apr. 1
Apr. 5 Whittier, Calif. .....Mar. 25
Apr. 5 Evansville, Ind. .....Mar. 25
Apr. 5 Quincy (Boston P. O.), Mass. .....Apr. 1
Apr. 5 Quebec, Que. .....Apr. 1
Apr. 6 Hazelton, Pa. .....Mar. 18
Apr. 6 Churubusco, Ind. .....Mar. 25
Apr. 6 Louisburg, N. C. .....Apr. 1
Apr. 6 Chelsea, Mich .....Apr. 1
Apr. 6 Phila., Pa. .....Apr. 1
Apr. 8 Mariners Harbor (Ind. sta. Staten Island), N. Y. .....Apr. 1
Apr. 8 Hollis (mail Jamaica), N. Y. .....Apr. 1
Apr. 10 Waukesha, Wis. .....Apr. 1
Apr. 13 Jacksonville, Fla. .....Mar. 25
Apr. 13 Chicago, Ill. .....Apr. 1
Apr. 14 Fordson (Detroit P. O.), Mich. .....Mar. 4
Apr. 15 Tuscaloosa, Ala. .....Mar. 25
Apr. 15 Lawrence, Kan. .....Mar. 25
Apr. 15 Canton, O. .....Apr. 1
Apr. 17 Cleveland, O. .....Apr. 1
Apr. 28 Bowling Green, O. .....Apr. 1

Federal Government Work

Apr. 5 Vestibule, etc.—Cedar Rapids, Ia. .....Apr. 1
Apr. 6 Earthwork—Iowa .....Mar. 18
Adv. Mar. 18 to Apr. 1.
Apr. 6 Addition—Abilene, Tex. .....Mar. 25
Apr. 7 Road—Arizona .....Apr. 1
Apr. 12 Dredging — Hartford, Conn. .....Mar. 11
Adv. Mar. 11 to Apr. 1.
Apr. 12 Levee—Memphis, Tenn. .....Mar. 25
Apr. 12 Remodeling—Santa Barbara, Calif. .....Mar. 25
Apr. 12 Wire, etc.—Memphis, Tenn. .....Apr. 1
Adv. Apr. 1.
Apr. 12 Extension—Santa Barbara, Calif. .....Apr. 1
Apr. 13 Remodeling—Chester, Pa. .....Mar. 25
Apr. 14 Quarters—Astoria, Ore. .....Apr. 1
Apr. 15 Earthwork—New Orleans, La. .....Mar. 25
Apr. 16 Dredging—Galveston, Tex. .....Mar. 18
Adv. Mar. 18 to Apr. 1.
Apr. 16 Quarantine Station—Mobile, Ala. .....Mar. 25
Adv. Mar. 25 and Apr. 1.
Apr. 16 Mezzanine, etc.—Syracuse, N. Y. .....Apr. 1
Adv. Apr. 1.
Apr. 19 Extension—Macomb, Ill. .....Apr. 1
Apr. 20 Turbine, etc.—Nebraska and Wyoming .....Mar 18
Apr. 20 Addition—Newark, N. Y. .....Apr. 1
Adv. Apr. 1.
Apr. 20 Cable—Buffalo, N. Y. .....Apr. 1
Adv. Apr. 1.
Apr. 20 Fill—Gulfport, Miss. .....Apr. 1
Apr. 21 Hospital—Wash., D. C. .....Mar. 25
Adv. Mar. 25 and Apr. 1.
Apr. 21 Extension—Oklahoma City, Okla. .....Apr. 1
Apr. 21 Storage—Pensacola, Fla. .....Apr. 1
Apr. 22 Granite—Wash., D. C. .....Mar. 25
Adv. Mar. 25 and Apr. 1.
Apr. 22 Dredging—Ft. Mifflin (mail Essington), Pa. .....Apr. 1

Bids close *See Eng. News-Record*

Apr. 22 Brush and Poles—Memphis, Tenn. .....Apr. 1
Apr. 27 Recreation, etc. — Pennsylvania .....Apr. 1
Adv. Mar. 25 and Apr. 1.
Apr. 28 Catamarans—Norfolk, Va. .....Apr. 1
Adv. Apr. 1.
Apr. 28 Quarters—Wash., D. C. .....Apr. 1
Apr. 29 Excavation, etc.—Easton, Wash. .....Apr. 1
Adv. Apr. 1.
Apr. 30 Cranes—Wash., D. C. .....Apr. 1
Adv. Apr. 1.
May 5 Dredging—South Boston (sta. Boston), Mass. .....Mar. 25

Unclassified

Apr. 5 Lighting System—Biloxi, Miss. .....Mar. 25
Apr. 5 Signal Tower, etc.—New York .....Mar. 25
Apr. 7 Sanitary Work, etc.—Ogdensburg, N. Y. .....Mar. 18
Apr. 8 Rolling Doors—San Francisco, Calif. .....Apr. 1
Apr. 8 Fieldhouse, etc.—New York, N. Y. .....Apr. 1
Apr. 9 Special Work—New York, N. Y. .....Apr. 1
Apr. 12 Power Plant Equipment—Richmond, Ind. .....Mar. 25
Apr. 13 Culverts—Omaha, Neb. .....Apr. 1
Apr. 20 Unloader—New Orleans, La. .....Mar. 25
May 5 Tunnel—San Francisco, Calif. .....Apr. 1
Adv. Apr. 1.
May 18 Signal System—Buffalo, N. Y. .....Apr. 1

Materials

Apr. 2 Timber Piles—Albany, N. Y. .....Mar. 18
Apr. 2 Tar—Cincinnati, O. .....Mar. 25
Apr. 5 Pipe, Cement, etc.—Everett (Boston P. O.), Mass. .....Apr. 1
Apr. 5 Culvert Pipe—Storm Lake, Ia. .....Apr. 1
Apr. 6 Tile Drain, etc.—Pocohantas, Ia. .....Apr. 1
Apr. 6 Lumber—Jones, La. .....Mar. 4
Apr. 6 Cement, etc.—Collins, Miss. .....Mar. 25
Apr. 6 Culvert Pipe—Independence, Ia. .....Apr. 1
Apr. 6 Culvert Pipe—Knoxville, Ia. .....Apr. 1
Apr. 7 Cement, etc.—Springfield, Mass. .....Mar. 25
Apr. 7 Road Oil, Cement, etc.—Boston, Mass. .....Apr. 1
Apr. 8 Road Oil—Menasha, Wis. .....Apr. 1
Apr. 8 Asphaltic Cement—Milwaukee, Wis. .....Apr. 1
Apr. 8 Steel—Oshkosh, Wis. .....Apr. 1
Apr. 9 Timber, Culvert Pipe—Sac City, Ia. .....Apr. 1
Apr. 9 Steel Tank Plates—St. Louis, Mo. .....Apr. 1
Apr. 12 Crushed Rock — New Jersey .....Apr. 1
Adv. Mar. 25 and Apr. 1.
Apr. 20 Road Signs—Iowa .....Apr. 1
Adv. Apr. 1.
Apr. 30 Road Oil—Nashville, Tenn. .....Mar. 25

News of New Work

Waterworks

Proposed Work

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Conn., Storrs (R. Sta. Eagleville)—State made plans wells and reservoirs to store water from Fenton and Willimantic Rivers providing water for Connecticut Agricultural College, here, and State Training School, Mansfield. C. M. Saville, 1026 Main St., Hartford, engr.

N. C., Hendersonville — Plans purchasing water system from local company and make extensive improvements. Noted Dec. 10.

N. C., Sanford — Sold $100,000 bonds, enlarging water plant.

Tenn., Waverly—Made preliminary plans new waterworks. $20,000. J. D. Luten, mayor. Engineer not selected.

Mich., Halfway—Rejected bids Feb. 17, 26 mi. 6- to 12-in. c.i. mains in Ash, Birch, Chestnut, Magnolia and Gratiot Aves. $270,000. Making revised plans 38 mi. mains for whole village. R. H. O'Mara, Kaiser Bldg., engr. Noted Feb. 11.

Mich., Iron Mountain—Plans extending 10,000 lin.ft. 6 in. c.i. mains in various streets. To exceed $15,000. F. W. Hartmen, city engr.

Ill., East Moline — See "Streets and Roads."

Ill., Galesburg — Plans new deep well (Potsdam), 12,000 gal. per min. capacity. $25,000. A. L. Richey, City Hall, engr.

Minn., Jordan — Election soon $23,000 bonds, enlarging and extending mains in various streets. J. C. Busch, city clk.

Kan., Severy—Made plans and surveys new waterworks, incl. wells, etc. Election in April, $50,000 bonds for same. Burns & McDonnell Eng. Co., 401 Interstate Bldg., Kansas City, Mo., engrs. Noted Feb. 25.

Kan., Winchester—Soon takes bids new waterworks. $35,000. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, Mo., engrs. Noted Dec. 17.

N. D., Manden—Defeated $165,000 bonds, improving waterworks. Noted Mar. 11.

Mo., Bowling Green—Election in April, $80,000 bonds, complete water works and distribution system. McCarthy & Elder, Marion, Ill., engrs.

Mo., Webster Groves (Ind. br. St. Louis)—Voted $150,000 bonds, improving and extending waterworks. Noted Mar. 4.

Ark., Corning—Plans waterworks, distribution and sewerage systems. $90,000. J. R. Rhyne, City Hall, engr.

Ark., Judsonia — Making preliminary plans forming waterworks district and constructing new waterworks. J. C. Hughes, mayor. Engineer not selected.

Tex., Cotulla — Plans new and larger mains, pumping equipment, etc. $75,000. Address Mayor.

Tex., Duncanville — Duncanville Water Impvt. Dist. plans election $100,000 bonds, organizing district, etc. Engineer not selected.

See classified index on bids wanted on page 185

When *Time* Must be Saved

On many new and repair jobs *time* often is of prime importance.

Just as crack trains cross the country in quick *time,* and powerful motor cars cut *time* records and the U. S. air mail planes almost annihilate *time* to speed up deliveries, so also can *time* be saved to speed up many construction jobs.

In such cases you do not want to wait the time usually required for concrete to gain the desired strength. With the proper materials and methods you do not need to. You can obtain quick-hardening, strong concrete in *3 days* with standard *Universal* cement, the same quality *Universal* as regularly used, by applying the same methods that thousands of laboratory tests and actual construction experience prove will give the desired results.

Detailed information on how to obtain quick-hardening, strong concrete in *3 days* with standard *Universal* cement on jobs "where *time* must be saved" gladly furnished on request to

UNIVERSAL
PORTLAND CEMENT CO.

Chicago Pittsburgh Minneapolis Duluth
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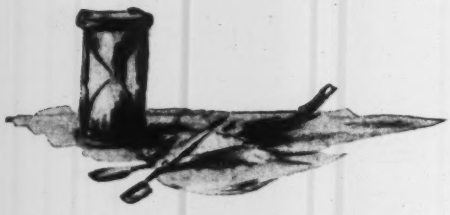
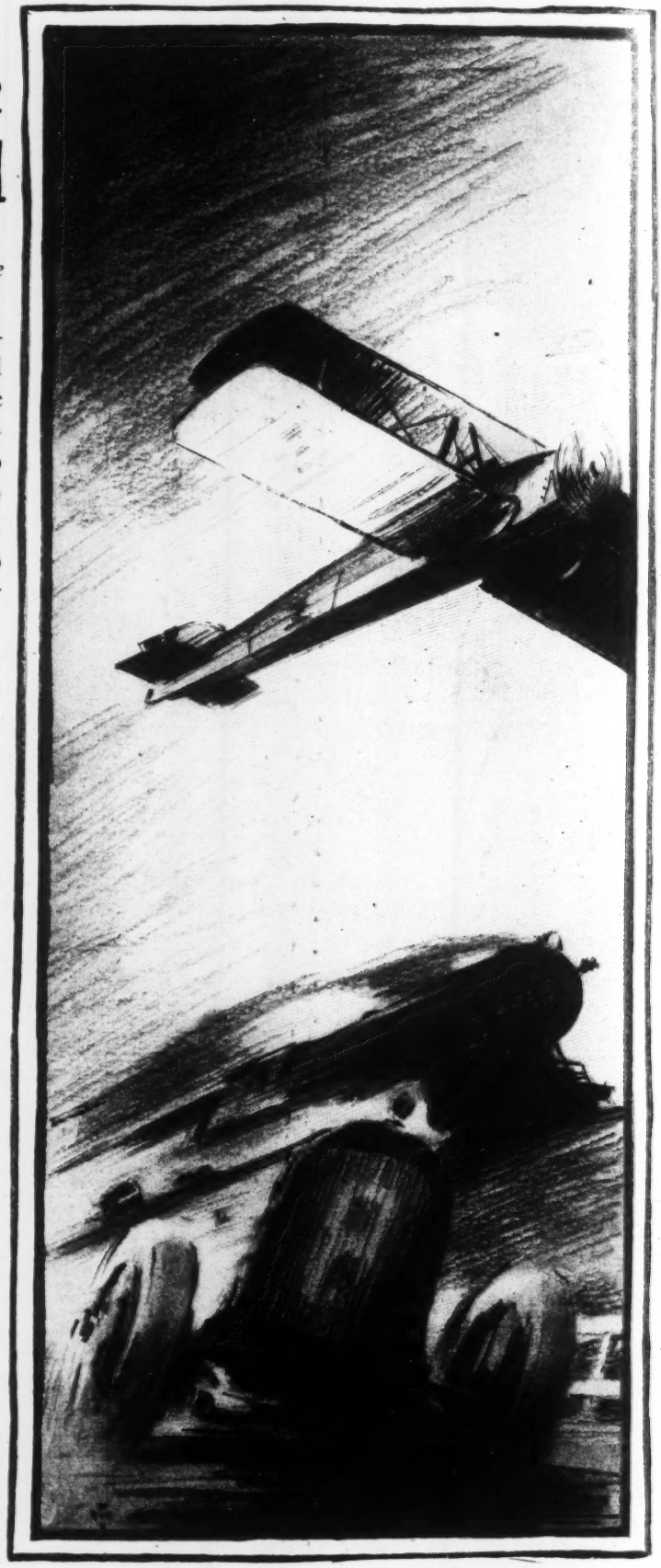




Waterworks (Continued)

Okla., Chandler—Election soon $100,000 bonds, waterworks. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Clinton — Making surveys new water supply. $600,000. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Sperry — Plans election $15,000 bonds, waterworks and sanitary sewers in various streets. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Spiro—Voted $40,000 bonds, waterworks extensions.

Colo., Ft. Collins—Rejected bids Feb. 9, Sects. B and C flow line for waterworks extension and repairs. Kiersted & Stringfellow, 614 Interstate Bldg., Kansas City, Mo., engrs. Noted Mar. 11.

N. M., Melrose—Election Apr. 6, $45,000 bonds, waterworks. F. E. Devlin Eng. Co., 614 Bitting Bldg., Wichita, Kan., engrs.

Idaho, Pocatello—Election Apr. 6, $463,000 bonds, enlarging reservoir and mains. Burns & McDonnell Eng. Co., 401 Interstate Bldg., Kansas City, Mo., engrs.

Calif., Mount Shasta — See "Contracts Awarded."

Calif., Ventura — Ventura Water Work Dist. 2, plans election $35,000 bonds, constructing waterworks. C. W. Petit, Ventura, co. surv.

Ont., Toronto — Plans 6- to 12-in. c.i. mains in Sorauren Ave. $12,597, Heath Crescent $550, Ridge Dr. $5,073, Sighthill Ave. $842, and Leone Ave. $722. R. C. Harris, City Hall, engr.

Bids Desired

Mass., Boston — Apr. 5, by Dept. Pub. Wks., laying and relaying mains in various streets, in West Roxbury and Hyde Park; Apr. 6, in Brighton and Dorchester. $15,000. J. H. Sullivan, comr.

N. Y., Bath—Apr. 28, by Superintendent Purchase, Capitol, Albany, additional water supply for fire protection, at New York State Soldiers & Sailors Home, here. S. W. Jones, Capitol, Albany, state archt.; adv. E. N.-R. Apr. 1.

N. Y., Brooklyn—Apr. 6, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains under board walk, Empire Blvd., Elmore Pl., Avenues R and T, Coney Island, Dumont, Neptune, Nostrand, Riverdale, Rogers, St. Marks, 20th and 23rd Aves., Burnett, Carroll, Elton, March, Pacific, 37th, East 95th, East 99th, West 11th and Bay 10th Sts., here.

N. Y., New York — Apr. 6, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains, etc., in Broadway and Laurel Hill Terraces, 3rd, 7th and 10th Aves., Arden, Henshaw, Park, East 6th, East 8th, East 32nd, West 130th, 138th, 160th, 193rd and 196th Sts.

N. J., Trenton—Apr. 9, by Water Dept., 225 tons, more or less, 6 in. and 50 tons, more or less 4 in. pipe, one thousand ¾-in., fifty 1½ in. and two hundred 1 in. curb stops (Mueller, Hayes or equal), etc. A. Bugbee, City Hall, engr.

Pa., Ebensburg—Apr. 19, by J. B. Lehman, secy., and S. E. Mays, boro engr., brick and steel filtration plant, washwater tank, etc. $100,000. Hudson & Myron, 802 Wabash Bldg., Pittsburgh, engrs. Noted Mar. 11.

Fla., New Port Richey—Apr. 6, by Burns-Becker Realty Co., W. E. Burns, pres., 11,000 ft. mains, etc., in various streets. $25,000.

Miss., Pickens—Apr. 6, by Mayor and Bd. Aldermen, furnishing and installing 100 meters and 100 meter boxes. J. M. Yarborough, town clk.

O., Akron—Apr. 5, at office A. S. Helpbringer, city purch. agt., Municipal Bldg., 75 tons ¾ in double strength lead pipe and 50 tons pig lead.

O., Upper Arlington (Columbus P .O.)—See "Streets and Roads."

O., Upper Arlington (Columbus P. O.)—See "Sewers."

Mich., Detroit — Apr. 6, by Bd. Water Comm., 32,835 ft. 6- to 16-in. mains in various streets, Contr. 1926-7; 52,037 ft. 6- to 16-in. in Contr. 1926-8; and 48,725 ft. 6- to 12-in. in Contr. 1926-9. G. H. Fenkell, 176 East Jefferson Ave., genl. mgr.

Wis., Centuria—Apr. 9, by C. Anderson, city clk., 9,000 ft. 6 and 8 in., c.i. mains in various streets, also 75,000-100,000 gal. steel or concrete tank on tower, c.c. $20,000. Druar & Milinowski, 50 Globe Bldg., St. Paul, Minn., engrs.

Wis., Kenosha—Apr. 15, by C. M. Osborn, city mgr., 2,500,000 gal. rein.-con. storage reservoir, two 36 in. hydraulic valves, c.i. pipe and specials at filtration plant. $100,000. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, Ill., engrs.

Wis., Milwaukee—Apr. 8, by Central Bd. Purch., J. W. Nicholson, ch. buyer, 1,438,375 tons plain and 732,795 tons lugged c.i. pipe, 36, 42 and 48 in., also 121,845 tons special castings.

Mo., Marshall—Apr. 12, by City Clerk, 150,000 gal. tank on 140 ft. tower, 750 g.p.m., 200 ft. head triplex centrifugal motor driven pump, etc. Henrici-Lowry Eng. Co., 401 Security Bldg., Kansas City, engrs. Noted Mar. 25.

Tex., Port Arthur—Apr. 8, by J. O. Herpin, superv. engr., c/o J. P. Logan, mayor, two 10,000 g.p.m. low service, one 2,100 g.p.m. and one 3,500 g.p.m. high service motor driven pumps, for City $35,000.

Okla., Okmulgee — Apr. 14, at office A. Baker, comr. Finance, by Bd. Comrs., new water supply, incl. dam, etc. L. F. Harza, 919 Monadnock Bldg., Chicago, consult. engr.; adv. E. N.-R. Apr. 1. Noted Mar. 25.

Okla., Wewoka—City in market for 500 g.p.m. capacity, 2 stage centrifugal pump driven by 75 hp. marine type gasoline engine, for fire fighting purposes. D. R. Freser, city clk.

Calif., El Segundo—Apr. 9, by V. D. McCarthy, city clk., 1,500 lin.ft. 6 in. Class "B" c.i. and 2,200 lin.ft. 4 in. Class "B" bell and spigot, also 2,450 lin.ft. 2 in. galvanized iron screw pipe, etc.

Calif., Los Angeles—Apr. 12, by Supervs. Los Angeles Co., 250,000 gal. rein.-con. reservoir at county farm.

Que., St. Lambert — Apr. 19, by City, mechanical gravity filter plant, Contr. A-1, etc. R. D. French, McGill University, Montreal, consult. engr.; adv. E. N.-R. Apr. 1. Noted Dec. 24.

B. C., Vancouver — Apr. 6, by W. McQueen, city clk., 12,000 ft. 6 in., 5,000 ft. 8 in., and 5,000 ft. 12 in. c.i. pipe, one hundred 6 in., fifty 8 in. and fifty 12 in. valves. $30,000. C. Brackenridge, city engr.

Bids Received

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Mar. 29, mains, etc., in 14th St., Astoria and 47th Aves., etc., from S. Gallucci & Sons, 38 Railroad Ave., Corona, $11,000. Noted Mar. 25.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., Mar. 29, mains, etc., in Central Park, Bway., 1st and 3rd Aves., etc., from Knight & DeMicco, 448 East Tremont Ave., $18,023. Noted Mar. 25.

O., Cleveland—Bd. Comrs. Cuyahoga Co., 18,000 ft. 8- to 12-in. c.i. mains in Rockside Rd. and vicinity, from Gantose Constr. Co., Brook Park Rd., $89,459.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, Mar. 16, (1) four 650 hp. boilers (2) forced draft chain grate stokers for boilers (3) 2 preheaters for boiler rooms (4) coal and ash handling equipment for power plant at Howards Bend on Missouri River, St. Louis Co., from Heine Boiler Co., 5319 Marcus Ave., (1) $106,000; from Combustion Eng. Co., F. J. McDevitt, mgr., 1953 Ry. Exch. Bldg., (2) $29,831 (3b) $5,880; from Pratt-McDaniel Corp., 101 Park Ave., New York City, N. Y., (3a) $4,800; and from Stephens-Adamson Mfg. Co., Federal Commerce Trust Bldg., (4) $64,304. Noted Feb. 25.

Tex., Greenville—Water filtration plant, 3 m.g. capacity, from N. S. Sherman Machine & Iron Wks., 18-32 East Main St., Oklahoma City, Okla., $103,000.

Calif., San Rafael—E. A. Prentice, secy. Bd. Directors Marin Co. Municipal Water Dist., 468 4th St., Mar. 16, furnishing 29,404 lin.ft. 26 in. and 7,346 lin.ft. 30 in. welded steel pipe, etc., f.o.b. Fairfax, from Montague Pipe & Steel Co., Hobart Bldg., San Francisco; furnishing and installing above from Western Pipe & Steel Co., 444 Market St., San Francisco. Noted Feb. 25.

Contracts Awarded

Mass., Boston—Pub. Wks. Dept. Water Serv., 110,000 lb. iron castings, to Davis Fdry. Co., Lawrence, $0.35 per lb.

N. Y., Yonkers — Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, recirculating, sterlizing and filtering equipment, for swimming pool, Tibbitts Park, here, to Roberts Filter Mfg. Co., 6th and Columbia Sts., Darby, Pa., $13,390. Noted Mar. 4.

O., Cincinnati—Director Pub. Serv., 1,253 tons 16- to 24-in. c.i. pipe and 15 tons special castings to water distribution system in Bevis Ave. and Duck Creek Rd., to U. S. Cast Iron Pipe Co., Addyston, $57,546. Engrs. est. $55,000. Noted Mar. 4.

Mich., Detroit—Dept. Water Supply, to Michigan Valve & Fdry. Co., 2631 Parkinson Ave., one hundred fifty 12 in. gate valves for use in connection with new watermain extensions $63.50 each, fifty 16 in. $153, and twelve 24 in. $542.

Mich., Warren — F. Licht, village clk., 60,000 gal. elevated steel tank, to Pittsburgh Des Moines Steel Co., 873 Curry Bldg., Pittsburgh, Pa., $6,600; 20,000 lin.ft. 4- to 8-in. c.i. mains in various streets, to F. A. Wardlow, Warren, $37,922. Noted Mar. 4.

Minn., Fairmont — H. J. Waite, secy., Water & Light Comn., 3 centrifugal pumps for use at new filtration plant, to J. G. Robertson & Co., 2528 University Ave., St. Paul. Noted Mar. 11.

Colo., Ft. Collins—Distribution reservoir, to J. Finger & Son, Longmont, $65,935. Noted Mar. 11.

Ore., Medford — Water Comn., 30 mi. mains, etc. in various streets, to Swartley Bros., Corvallis, $647,924. Noted Feb. 25.

Calif., Los Angeles—To W. K. Thompson, Los Angeles, 40,000 ft. 4 in. German c.i. pipe, Schedule 1, $50.56 per ton; to U. S. Cast Iron Pipe Co., Wright-Callender Bldg., 6,000 ft. 8 in. Class "C" $1.284 per ft., 30,000 ft. Class "C" 6 in. $0.8834, 240,000 ft. Class "B" 6 in. $0.8217, 48,000 ft. 8 in. Class "B" $1.171, 12,000 ft. 12 in. Class "B" $2.034, all Schedule 2; to Amer. Cast Iron Pipe Co., Marsh-Stang Bldg., 20,000 ft. 4 in. Class "C" $0.62 per ft., 80,000 ft. 4 in. Class "B" $0.58, both Schedule 3.

Calif., Mount Shasta—Constructing pipe line, to J. Currie, 1100 Peninsula Ave., Burlingame, $29,560. Bids for 200,000 gal. tank rejected. Noted Mar. 4.

Ont., Belle River — Village, c.i. pipe, Contr. C, to Natl. Iron Corp., foot of Cherry St., Toronto; valves and hydrants, Contr. D, to Kerr Engine Co., Walker Rd., Walkerville; service connection materials, Contr. E, to J. T. Wing & Co., 335 Pitt St. E., Windsor; laying mains and pumping station, Contr. F, to McNamara Constr. Co., Ltd., 53 Yonge St., Toronto. Engrs. est. $40,000. Noted Feb. 25.

Sewers

Proposed Work

Fla., Avon Park—Plans election $60,000 bonds, storm sewers and $230,000 bonds sanitary sewers in various streets.

Fla., Miami—City Manager takes bids about Apr. 22, 23,438 ft. 10 in. vitr. sewer, etc., in Dist. 185, $150,000; 18,150 ft. 12 in., Dist. 186, $120,000; 800 ft. 15 in., Dist. 187, $65,000; 330 ft. 18 in., Dist. 188, $4,000; 1,030 ft. 12- to 18-in. vitr. sewer in Dist. S. R. 189, Contr. S. R. 71, $80,000; sewer in Dist. S. R. 192, Contr. S. R. 74, $160,000; and 3,515 ft. 12- to 27-in. vitr. sewer, etc., in Dist. S. R. 190, Contr. S. R. 72, $90,000. C. S. Nichols, Miami, engr.

Ky., Cadiz — Making preliminary plans new sewerage system. $27,000. J. R. Vinson, mayor. Engineer not announced.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids in spring 1,655 ft. 18- to 42-in. vitr. clay sewer in Parkdale Dr. et al., $35,600, 3,635 ft. 8- to 24-in. in Crosier St. $26,500, 2,625 ft. 8- to 24-in. in Kipling St. $16,000, 2,635 ft. 8- to 24-in. in Corice St. $14,800, 3,090 ft. 8- to 30-in. in La Follette St. et al., $24,600, and 3,265 ft. 8- to 20-in. in McKinley Ave. $17,000. J. E. Root, city engr.

O., London — Made plans 2¼ mi. 12 in. sewers in South Sewer Dist. 1, Union Twp. Address City Engineer.

Mich., Detroit—Dept. Pub. Wks. plans 2,904 ft. 2 ring, brick or concrete sewer, 2 ft. 6 in. x 3 ft. 9 in. egg shaped to 4 ft. cylinder, and 4 ft. 6 in. and 5 ft. 3 in. cylinder in Lyndon Ave. Arm Mill Rd. Sewer. P. A. Fellows, City Hall, engr.

Mich., Plymouth—Made plans 24,300 ft. 8- to 12-in. vitr. sewers, etc., in various streets. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Mich., Trenton—L. Frebes, village clk., made plans 8- to 12-in. storm sewers, etc., in St. Joseph Ave., Riverside Dr., George, Truax, Harrison, Cherry, Elm and Walnut Sts. $35,000.

Ill., East Moline — See "Streets and Roads."

Ill., Vandalia—Takes bids about Apr. 30, 18,000 ft. 8- to 12-in. vitr. clay sewers, septic tank, etc. in Sewer Dist 3. $30,000. A. H. Beard Eng. Co., 7370 Manchester Ave., Maplewood, Mo., engrs. Noted Oct. 22.

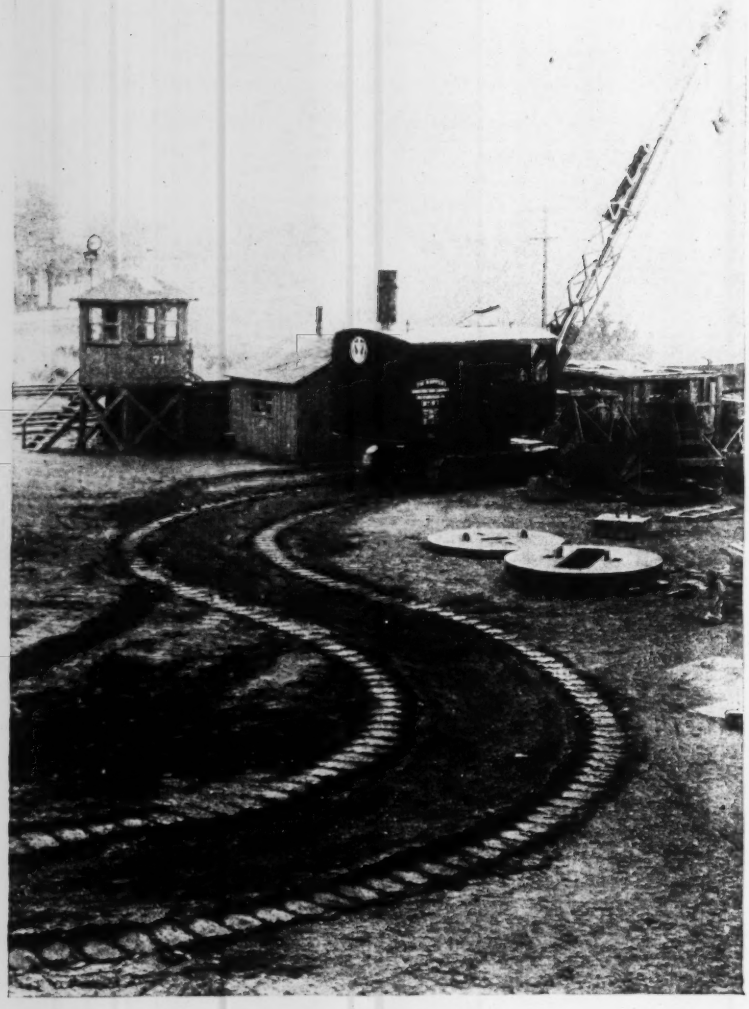
Kan., Medicine Lodge — Making preliminary plans sewers in various streets. $35,000. F. E. Devlin Eng. Co., 614 Bitting Bldg., Wichita, engrs.

Ark., Corning—See "Waterworks."

Tex., Beaumont—Making plans 40 mi. sewers in various streets. $76,000. R. C. Black, Beaumont, engr.

Tex., Knox City—Making plans sewers in various streets. $35,000. F. E. Devlin Eng. Co., 614 Bitting Bldg., Wichita, Kan., engrs.

Okla., Sperry—See "Waterworks."



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Sewers (Continued)

Calif., San Diego—Plans 86,580 ft. 6- to 10-in. concrete sewers, etc., in various streets of Normal Heights. F. A. Rhodes, City Hall, engr.

Calif., San Francisco—See "Streets and Roads."

Ont., Toronto—City Council plans 3,500 ft. 8 in. vitr. tile sewers in Cavel Ave., Duchess St., Plum Pl., lane first north of Danforth Ave., lane first north of Gerrard St. E., lane first east of Hastings Ave., lane first west of Dovercourt Rd., lane north of College St., and lane first west of Margueretta St. $29,750. R. C. Harris, City Hall, engr.

Ont., Toronto—York Twp. plans 4,500 ft. 8 in. and up vitr. tile sewers in Humberview Rd., lane at Belt Line Ry., Lessard, Westmount, and Rosecliffe Aves. F. B. Goodike, 40 Jarvis St., engr.

Bids Desired

Mass., Boston—Apr. 8, by Dept. Pub. Wks., sewerage works in various streets in Dorchester; Apr. 8, in various streets in Brighton; Apr. 9, in various streets in Roxbury; and Apr. 9, various streets in Boston Proper. J. H. Sullivan, comr.

N. Y., Greenburgh — Apr. 12, by Bd. Sewer Comrs. Greenville Sewer Dist., 155 Old Army Rd., sewerage system in Greenville Sewer Dist. J. N. Heeney, White Plains, engr.; adv. E. N.-R. Apr. 1.

N. Y., Long Island City—Apr. 7, by M. E. Connolly, pres. Queens Boro. Queens Subway Bldg., sanitary sewers used temporarily as combined sewers in Little Neck Rd., Foch and Springfield Blvds., Hempstead, 99th and Jamaica Aves., 220th and 222nd Sts.

N. Y., New York—Apr. 8, by W. J. Flynn, acting pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., storm water drains in Adee Ave. and East 222nd Sts.; also sewer in East 222nd St. Former bids withdrawn. Noted Mar. 25.

N. J., Hasbrouck Heights (Ind. br. Hackensack)—Apr. 19, by Mayor and Boro Council, J. P. Breeze, clk., approximately 29,000 lin.ft. 4 in. vitr. house drain connections between curb line and main sewers in various streets. W. G. Ihnen, Esq., 1 Station Sq., Rutherford, boro. engr.; adv. E. N.-R. Apr. 1.

N. J., Newark—Apr. 6, by G. D. Bergen, purch. agt. Essex Co., Courthouse, constructing storm sewers in Mt. Pleasant, Chancellor, and Central Aves., etc.; and resurfacing Lindsey and Horseneck Rds.

W. Va., Parkersburg — See "Streets and Roads."

Fla., Lakeland — Apr. 20, by City, A. Schneider, mgr., sewage treatment plant, etc. C. C. Brown, city engr.; adv. E. N.-R. Apr. 1.

Ala., Mobile—See "Streets and Roads."

Tenn., North Chattanooga (br. Chattanooga)—Apr. 29, by Town Comrs., at Central Grammar School, W. S. Beck, mayor, sewerage system. Cushman-Farileigh Eng. Co., 724 James Bldg., engrs.; adv. E. N.-R. Apr. 1.

O., Cleveland — Apr. 7, by Bd. Comrs. Cuyahoga Co., 3,800 ft. 8- to 18-in. vitr. sewer in Lander Rd. Impvt. 310. To exceed $35,000. F. Williams, Court House, engr.

O., Upper Arlington (Columbus P. O.)—See "Streets and Roads."

O., Upper Arlington (Columbus P. O.)—Apr. 7, by N. R. Copeland, village clk., 26,900 ft. 8 in. and 10 in. sewers, etc., in various streets, $50,000; also 6,130 ft. 6- to 12-in. mains, etc., in various streets, $12,000. D. B. Sayers, 52 West Gay St., Columbus, engr.

Mich., Grand Rapids—Apr. 21, by Director Pub. Serv., City Hall, constructing Highland-Worden Relief Sewer Project, Contr. K-5. F. H. Locke, city mgr.; adv. E. N.-R. Apr. 1.

Ia., Schaller—Apr. 12, by M. E. Currie, city clk., City Hall, sewerage system, incl. Imhoff tank and sludge bed, 1,200 ft. 12 in. outlet sewer, etc. $25,000. W. E. Buell & Co., Davidson Bldg., Sioux City, engrs. Noted Dec. 17.

Calif., Los Angeles — Apr. 6, by Los Angeles Co. Sanitation Dist. 5, 4,068 ft. 8- and 10-in. vitr. clay or concrete sewer in Raymond Ave.; also 2,796 ft. 12 in. vitr. clay or concrete in Strawberry Ave. A. K. Warren, Law Bldg., engr.

Calif., Los Angeles—Apr. 7, by Los Angeles Co. Sanitation Dist. 2, Arizona Ave. Trunk Sewer, 2,930 ft. 18 in. and 4,197 ft. 15 in vitr. pipe, incl. 6 in. wyes, etc. A. K. Warren, Law Bldg., ch. engr.

Bids Received

N. Y., Buffalo—Commissioner Pub. Wks., extending Bailey Ave. overflow sewer, from Great Lakes Dredge & Dock Co., 7 Battery Pl., New York City, $46,000. Noted Mar. 4.

N. Y., New York—W. J. Flynn, acting pres. Bronx Boro., Crotona Park, Tremont and 3rd Aves., sewers in East 22nd St., from C. Turiano Contg. Co., 3185 East Tremont Ave., $31,389; Warring Ave., from C. E. Farrell Contg. Co., 1981 Pilgrim Ave., $2,290; Truxton St., from Slack & Slack, 143 Westchester Sq., $11,551; in Randall Ave. and receiving basins in Warring and Laconia Aves., from F. Spedero, 3185 East Tremont Ave., $3,963 and $1,130 respectively. Noted Mar. 25.

O., Akron — F. Peters, dir. Pub. Serv., Mar. 18, from McCourt Constr. Co., 369 South Main St., (a) segmental block (b) brick, 4,700 ft. 8- to 36-in. sewer in Diagonal Rd. et al. (a) $28,804 (b) $30,486, and 815 ft. 18 in. vitr. clay sewer in West Market St., $13,019; from Shullo & De Luca Constr. Co., 140 North Summit St., 3,750 ft. 8- to 30-in. sewer in Lucille et al. (a) $16,595 (b) $17,180; 1,830 ft. 8- to 15-in. vitr. clay sewer in Elinor and Norton Sts., $8,390; from F. A. Jordano, 1232 Andrus St., 1,140 ft. 8 in. vitr. clay sewer in Spring and Stuber Sts., $3,710. Noted Mar. 11.

O., Cleveland — For 110 ft. double bbl. concrete culvert Sect. 1, and 115 ft. 4 x 8 ft. concrete sewer Sect. 2, Puritas Ave., from Kassouff & Co., 3182 West 25th St. $8,998 and $3,943 respectively; 530 ft. 4 C, 295 ft. 3 C, and 300 ft. 2 C brick sewer in Carroll Ave., from Amata Constr. Co., 5910 Kinsman Rd., $17,965. Noted Mar. 11.

O., Cleveland—Bd. Comrs. Cuyahoga Co., 6,000 ft. 8- to 36-in. sewer in Broadview & Brookpark Rds., from Langenham Constr. Co., Marshall Bldg., segmental block $58,586, brick $61,852, and concrete $58,586. Noted Mar. 11.

Ill., Barrington—Village, Mar. 16, 33- to 60-in. concrete and below to 12 in. vitr. tile sewers in various streets, from Gjellefold-Chapman Constr. Co., Forest City, Ia., $244,335. Engrs. est. $300,000. Noted Mar. 4.

Tex., Waco — Sewage treatment plant, general contract from K. S. Hull, Jr., Temple, $121,384; piping and sluice gates, from McCall Eng. Co., 307 Amicable Bldg., and Potts & Prentice, 1410 Amicable Bldg., $36,450 each; motors and compressors, from B. F. Sturtevant, 4403 Rawlins St., Dallas, $13,292; 3 centrifugal pumps, from Industrial Electric Co., 505 Exposition Bldg., Dallas, $3,559; 2 diaphragm sludge pumps, from Dorr Co., 310 South Michigan Blvd., Chicago, Ill., $3,000; 2 horizontal and 3 rotary sludge drags with clarifying tanks, from Link-Belt Co., Mach. Merc. Bk. Bldg., Dallas, $3,960 and $11,650 respectively. Noted Jan. 21.

Calif., Glendale—City Trustees, Mar. 18, from B. D. Zaich, 220 West 56th St., Los Angeles, improving Sewer Dist. 3 (Colorado St., etc.), 49,782 ft. 8 in. vitr. pipe $1,245, 26,533 lin.ft. 6 in. vitr. house sewers $1.12, etc., total approximately $106,100. Noted Feb. 18.

Calif., Santa Monica—For (a) furnishing and laying 30,000 ft. 24 in. rein.-con. pressure pipe (b) furnishing and delivering 30,000 ft. 24 in. c.i. pipe, in connection with sewerage disposal plant line from Hyperion to Santa Monica, from Elliott, Stroud & Seabrook, Vista, (a) $3.72 per ft.; and from Nicoll Co., Rialto Bldg., San Francisco, (b) $5.5029. Noted Feb. 18.

Contracts Awarded

Md., Baltimore — Bd. Awards, storm drains and sanitary sewers in Dists. H-9 and H-12, Contr. 93, to Chesapeake Contg. Co., 216 St. Paul St., $64,845. Noted Mar. 25.

D. C., Wash.—Dist. Comrs., Dist. Bldg., 1,385 ft. 4 to 6 ft. brick and concrete Good Hope Sewer, 1,030 ft. 5 x 5½ ft. brick and concrete Legation St. Stormwater Sewer and 805 ft. 10 in. 30th and Adam St. service sewer, to J. A. Forbes, Wash., D. C., 770 ft. 18 in. W St. Service Sewer, to M. Cain Co., Wash., D. C., 370 ft. 10 in. 7th Pl. Service Sewer, 465 ft. 8 and 12 in. Trinidad Service Sewer, 655 ft. 10 and 12 in. South Kenilworth Sewer, 385 ft. 10 in. 17th St. Service Sewer, and 480 ft. 10 in. 9th St. Sewer, to Brenizer Co., 101 New York Ave. N. E.; 880 lin.ft. 10 and 12 in. South Chevy Chase Heights Service Sewer and 445 ft. 8 and 12 in. Trinidad Ave. Sewer, to W. A. Pate, Rockville, Md.

Mich., Detroit—Dept. Pub. Wks., 1,152 lin.ft. Lateral 4545 and 1,473 ft. Lateral 4548, 12- to 24-in. crock, to F. DiVito, 4174 Russell St., $3,370 and $5,617 respectively; 19,239 lin.ft. Lateral 4491, to Liberty Constr. Co., 1026 Detroit Savings Bank Bldg., $90,882; 11,855 ft. Lateral 4496, 1 ft. to 3.5 ft. cylinder, to Detroit Drainage Constr. Co., Meyers Ave., $48,839; 2,826 ft. 12- to 24-in. crock Lateral 4549, to P. Cappello, 4062 Burlingame Ave., $6,500; 28,794 ft. 1 ft. to 4 ft. Lateral 4550, to J. Westover, Transportation Bldg., $73,916; 4,561 lin.ft. 12- to 24-in. crock Lateral 4561, to Cadillac Constr. Co., Transportation Bldg., $18,500. Grand total $247,624. Noted Mar. 18.

Ky., Ft. Thomas — For Sect. 2 of Ft. Thomas Sewerage System, 35,000 ft. 6- to 12-in. vitr. clay pipe, etc., to Bishop Watts Constr. Co., Huntington, W. V., $72,471. Engrs. est. $80,000.

Mich., Detroit—Dept. Pub. Wks., Winchester Ave. Arm, Gallagher Ave. Sewer, to Detroit Drainage Constr. Co., Meyers Ave., $33,717; Twelfth St. Outlet and Dock foot of 12th St., to Candler Dock & Dredge Co., $145 Medina Ave., $14,300; and Seven Mile Rd. Arm, Ashland Ave. Sewer, to Walbridge-Aldinger Co., 2356 Penobscot Bldg., $151,686. Grand total $199,703. Noted Mar. 25.

O., Cleveland—To Kassouff & Co., 3182 West 25th St., sewers in West 130th St., $10,002, Woodbury Ave., $15,000, and Greenway Ave. $8,326. Grand total $33,328. Work involves 8,750 ft. 12- to 24-in. vitr. clay pipe. Noted Mar. 25.

Wis., Milwaukee — See "Streets and Roads."

Wis., Wauwatosa—Bd. Pub. Wks., sewer and water house connections in North Ave., to A. W. Glawe, 20 State St. $33,832.

Calif., Beverly Hills—Concrete sewers in Municipal Impvt. Dist. 4, to L. Massa, P. O. Box 453, Bell, approximately $100,125.

Calif., Los Angeles—For 51,397 ft. 6- to 10-in. segmental block sewer in 9th Ave., to M. J. Simonovich, 727 Rodeo Rd., $59,245. Noted Mar. 25.

Calif., Los Angeles — To Kelly & Son, Hill-Street Bldg., constructing North Outfall Sewer, Sect. 29, 2,578 ft. 4 ft. 9 in. semi-elliptical brick concrete sewer $29,097, 2,209 ft. 4 ft. 9 in. semi-elliptical brick concrete sewer in tunnel $64,131, and 3,706 ft. 3 ft. 3 in. semi-elliptical brick concrete sewer in tunnel $74,608.

Ont., Toronto — For 2,500 ft. concrete trunk sewer in tunnel in Balliol St. from Bayview to Forman Ave., and Forman Ave. from Balliol St. to Davisville Ave., to J. Maguire Constr. Co. Ltd., 96 Spadina Rd., $349,436. Noted Jan. 1, 1925.

Ont., Toronto—City Council, to W. E. Taylor, 22 Falcon St., vitr. tile sewers in Athletic Ave. $893, and Craven Rd. $2,237; to Grant Contg. Co. Ltd., 47 Wellington St. E., Hubbard Blvd. $13,470, Glen Manor Dr. $5,280, Scarboro Beach Blvd. $5,680, Hammersmith Ave. $5,570, and Wineva Ave. $6,480; to City by day labor, Nursewood Rd. $7,313, Power St. $4,217, Bonfield Ave. $1,281, and Selwood Ave. $2,390. Grand total $54,811. Engrs. est. $54,900.

Ont., Toronto—For 1,200 ft. trunk sewer in Yonge St. from Lawrence Ave., south, to Connolly & Agnew, 606 Avenue Rd., concrete $40,468, brick $44,806. Engrs. est. $45,000.

Bridges

Proposed Work

Massachusetts—City of Lynn plans East Saugus Bridge between Saugus and Lynn. To exceed $25,000. Address City Engineer, City Hall, Lynn.

New Jersey—State Hy. Comn., Trenton, plans bridge over Shark River from Belmar to Avon. $300,000. W. G. Sloan, Trenton, state engr.

Tenn., Gainesboro—Jackson Co. and State Dept. Highways & Pub. Wks., Nashville, making surveys bridge over Cumberland River, near here. C. N. Bass, Nashville, comr.

Tenn., Union City—State Dept. Highways & Pub. Wks., Nashville, plans bridge over Obion River, near here, Obion Co. C. N. Bass, comr.

Mich., Detroit—Dept. Pub. Wks., plans 70 ft. steel I-beam and concrete bridge on concrete abutments, over Michigan Central Ry. tracks, on West Lafayette Ave. $70,000. P. A. Fellows, city engr.

Montana — State Hy. Dept., Helena, making plans four 20 ft. and two 80 ft. rubble masonry bridges on Blackfoot Highway, $75,000; and three 70 ft. concrete arch span bridge, on Federal Aid Project 187-B, Blackfoot Highway, $50,000, all in Glacier Co. State Hy. Comn., Helena, engr.

Missouri—State Hy. Dept., Jefferson City, making plans two 8 ft., one 10 ft. rein.-con. slab and one 30 ft., one 35 ft., one 40 ft. and one 50 ft. concrete deck girder spans, etc., in Cape Girardeau Co.; six 4 ft. and two 10 ft. rein.-con. and one 30 ft. rein.-con. deck girder spans, etc., Carroll Co.; two 8 ft., ten 10 ft. rein.-con. slab and one 70 ft. steel truss spans, etc., Cass Co.; one 20 ft. and one 40 ft. I beam, two 60 ft., three 80 ft., and two 240 ft. steel truss

Bridges (Continued)

spans, etc., Maries Co.; three 24 ft. rein.-con. slab and one 40 ft. rein.-con. deck girder spans, etc., Pettis Co.; two 12 ft., two 16 ft., and four 20 ft., rein.-con. slab spans, etc., Phelps Co.; four 12 ft., and three 14 ft. rein.-con. slab and one 80 ft. steel truss spans, etc., Pike Co.; two 12 ft. rein.-con. slab, one 35 ft., two 20 ft., one 45 ft. and two 30 ft. rein.-con. deck girder spans, etc., St. Charles Co. B. H. Piepmeier, ch. engr.

Tex., Kountze—See "Streets and Roads."

Tex., Marlin—See "Streets and Roads."

Tex., Sherwood—See "Streets and Roads."

Oklahoma — State Hy. Dept., Oklahoma City, making preliminary plans 2 span 140 ft. steel truss bridge on concrete piers, at Sallisaw, Sequoyah Co., $40,000; 1 span 100 ft. steel truss bridge on concrete piers, at Dewar, Okmulgee Co., $30,000; and 1 span 96 ft. steel truss bridge on concrete piers, at Meeker, Lincoln Co., $25,000. J. M. Page, highway engr.

Okla., Dewar—State Hy. Dept., Oklahoma City, making preliminary plans 1 span 96 ft. steel truss bridge on concrete piers over Deep Fork Creek, Okmulgee Co., here. $35,000. J. M. Page, highway engr.

Ont., Forest Hill—Village and York Twp. plan 400 to 600 ft. concrete and steel bridge, on Bathurst St. north of Heathdale Ave. $100,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Toronto—City Council plans 500 ft. temporary wooden bridge over Western Gap between here and Toronto Island. $50,000. R. C. Harris, City Hall, engr.

Bids Desired

Maine—Apr. 21, by State Hy. Dept., Augusta, bridge over Kennebec River, between Bath and Woolwich. $3,000,000. J. H. Waddell, 150 Bway., New York City, engr. Noted Oct. 22.

West Virginia—See "Streets and Roads."

Iowa—Apr. 6, by State Hy. Dept., Ames, one 28 x 24 ft. I-beam bridge, one 50 x 20 ft. pony truss bridge and 29 box culverts, on Federal Aid Project 238, Montgomery Co.; one 60 x 20 ft. pony truss bridge, one 80 x 20 ft. pony truss bridge and 29 culverts and extensions on Federal Aid Project 64, Jasper Co.; 16 box culverts on Federal Aid Project 280, Pottawatomie Co.; one 32 x 24 ft. I-beam bridge, one 160 x 20 ft. high truss bridge and 3 culverts on Federal Aid Project 98, Winneshiek Co., 2 culverts on Federal Aid Project 99, Warren Co. F. R. White, ch. engr.

Kan., Eldorado—Apr. 21, by Clerk Butler Co., 1 span 150 ft. marsh arch bridge, on Federal Aid Project 239-D, near here. E. S. Elcock, Eldorado, co. engr. Noted Mar. 25.

Kan., Larned—Apr. 7, by Pawnee Co., two 20 ft. concrete slab span bridges, on Federal Aid Project 295-B. L. R. Harris, Larned, co. engr.

Kan., Wichita—See "Streets and Roads."

Neb., Omaha—Apr. 13, by G. Berger, clk. Douglas Co., repairing and constructing all bridges during 1926. $200,000.

Tex., Brownsville — See "Streets and Roads."

Colorado—See "Streets and Roads."

Bids Received

Missouri—State Hy. Dept., Jefferson City, Mar. 19, one 20 ft. rein.-con. slab span, etc. over south fork Deer Creek, Bates Co., from Cook & Wadell, Ottawa, Kan. $2,714, one 20 ft. rein.-con. slab span, etc. over Smith Branch, Callaway Co., from V. E. Koch, Joplin, $3,435; two 10 ft. and five 5 ft. rein.-con. slab spans, etc. on Sta. 477 plus 28, Iron Co., from F. Engleman, Kansas City, $2,481; two 10 ft. and two 12 ft. rein.-con. slab spans, etc. over streams, Bates Co., from Winstead & Gunter, Siloam Springs, Ark., $3,012 and $2,185 respectively; three 24 ft. rein.-con. slab spans, etc. over Green Valley, also one 80 ft. and one 140 ft. steel truss spans, etc. over James River, both Christian Co., from Kelly & Underwood, Granby, $3,977 and $26,111 respectively; two 12 ft. rein.-con. slab and two 30 ft. rein.-con. deck girder spans, etc. over creeks, also one 30 ft. rein.-con. deck girder span, etc. over Wellard Branch, all in Polk Co., from M. E. Gillioz, Monett, $6,323 and $2,472 respectively; one 30 ft. rein.-con. deck girder span, etc. over north fork Deer Creek, Bates Co., from Koch & McGlone, Calhoun, $3,116; one 30 ft. rein.-con. deck girder span, etc. over Beeler Creek, Texas Co., and two 45 ft. rein.-con. deck girder spans, etc. over Wild Creek, Douglas Co., from Carte-Harlan Constr. Co., West Plains, $5,820 and $5,834 respectively, two 12 ft. and one 24 ft. rein.-con. slab spans, etc. over McKinney Branch, also three 20 ft. rein.-con. slab and one 45 ft. rein.-con. deck girder spans, etc. over Richland Creek, both Callaway Co., from W. P. McGeorge & Co., Pine Bluff, Ark. $5,059 and $6,914 respectively; two 20 ft. rein.-con. slab and one 40 ft. rein.-con. deck girder spans, etc. over stream, Lewis Co., from Newton Constr. Co., Columbia, $2,191 and $3,581 respectively; one 80 ft. steel truss span, etc. over Blackwater River, Johnson Co., from A. W. Mosley, Kansas City, $12,755; one 60 ft. and two 30 ft. rein.-con. deck girder spans, etc. over Morman Fork, Bates Co., from W. A. Ross Constr. Co., Kansas City, $12,052; three 80 ft. steel truss spans, etc. over north fork Spring Creek, Barton Co., from Independent Constr. Co., Pittsburg, Kan., $22,383; one 40 ft. rein.-con. deck girder span, etc. over Mackafish Branch, Bates Co., also one 80 ft. steel truss and four 35 ft. I-beam spans, etc. over Blackwater River D. D., Johnson Co., from M. Haase, St. Joseph, $7,073 and $20,166 respectively; two 80 ft. steel truss and two 30 ft. rein.-con. deck girder spans, etc. over Saline Creek, Cooper Co., from L. W. Spengler, Kansas City, $22,121; and three 100 ft. rein.-con. open spandrell arch spans, etc. over Sac River, Greene Co., from A. P. Poirot, Belleville, Ill., $26,012. Noted Mar. 11.

Tex., Clarksville — See "Streets and Roads."

California — State Hy. Comn., Forum Bldg., Sacramento, Mar. 22, widening present bridge by moving four 100 ft. existing steel spans off center line of roadway and constructing 4 similar spans at side, etc. across Rio Honda, near city of Los Angeles, Los Angeles Co., from Gutleben Bros., Inc., I. W. Hellman Bldg., Los Angeles, $84,818. Noted Mar. 11.

Contracts Awarded

North Carolina — State Hy. Dept., Raleigh, rein.-con. bridges, etc. on Project 66-A, Richmond Co., to Hobbs Peabody Constr. Co., Charlotte, $31,167. Noted Feb. 18.

South Carolina — State Hy. Dept., Columbia, timber trestles and substructure for steel span on Santee River Bridge, one 180 ft. steel swing span, on State Route 40, Federal Aid Project 39-B, Charleston and Georgetown Counties, to Salmons-Clement Co., Charleston, $205,000.

O., Portsmouth — Portsmouth Fullerton Bridge Co. 700 ft. suspension steel bridge over Ohio River, to Dravo Contg. Co., Neville I., Pittsburgh, Pa., $700,000.

Indiana—J. D. Williams, dir. State Hy. Comn., Indianapolis, (**e. e. means engrs. est.**), bridge over Little Blue River, F. A. 58-B, Crawford Co., and one over Patoka River F. A. 58-D, Orange Co., Contr. 60, to Brown & Cunningham, English, $39,569 e. e. $41,170; bridge over Baltimore & Ohio R.R. tracks, F. A. 59 Sect. 3 Scott Co., Contr. 61, to J. F. Beggs & Co., Scottsburg, $29,386 e. e. $36,972; bridge over Otter Creek, F. A. 76-A1, and one over Spring Creek, F. A. 76-A2, Vigo Co., Constr. 62, to J. W. Dougherty & Sons, Framesburg, $52,112 e. e. $50,883; bridge over Lick Creek, F. A. 80, Fayette Co., Contr. 63, to Hoosier-General Constr. Co., Connersville, $7,932 e. e. $9,137; bridge over Indian Creek, S. 12 I-496, Owen Co., Contr. 64, to W. H. Grammer & Son, Evansville, $13,618 e. e. $14,659; bridge over Turkey Creek, S. 25-C-478, LaGrange Co., to J. E. Sweet & Sons, Woodburn, $8,697 e. e. $8,797; bridge over Plum Creek, S-31-E-399, and one over east branch Plum Creek, 31-E-400, Putman Co., Contr. 66, to Wasnidge & Leonard, Jasonville, $11,850 e. e. $13,396; bridge over Little Brady Creek, S-39-A-58, one over Lick Creek, 39-A-494, and one over Grassy Creek, 39-A-495, Marion Co., Contr. 67, to Kernodle & Fulwider, Lebanon, $22,093 e. e. $28,106. Grand total $175,257. Noted Feb. 4.

Michigan — State Hy. Dept. at office comrs. Shiawassee Co., Corunna, File 761.306, Contr. 1, two 65 ft. spans, to J. P. Walters, Owasso, $26,746; steel, to Amer. Bridge Co., 2273 Beecher St., Detroit, $6,555. Noted Mar. 4.

Wisconsin — State Hy. Dept., Madison, constructing Whiskey Creek and County Line Bridges, on Winona-Marshland Rd., Federal Aid Project 340-B, Buffalo and Trempealeau Counties, to Guaranty Constr. Co., 305 Essex Bldg., Minneapolis, Minn., $29,913.

Wisconsin — State Hy. Dept., Madison, Minocqua Bridge, on Federal Aid Project 431-B, Oneida Co., to W. Tobe, Shingleton, Mich., $58,783.

Minnesota—See "Streets and Roads."

Kan., Greensburg — See "Streets and Roads."

South Dakota—State Hy. Dept., Pierre, (**F. A. P. means Federal Aid Project and S. A. P. means State Aid Project**), one 52 ft., one 56 ft. and one 26 ft. rein.-con. viaducts on F.A.P. 193-C, Grant Co., to Weighton Constr. Co., Sioux City, Ia., $15,394; one 50 ft., one 80 ft. and one 120 ft. rein.-con. viaducts, on F.A.P. 195-A, Hamlin Co., to W. F. Woolworth, Clear Lake, $18,510; one 52 ft. and one 30 ft. rein.-con. viaducts, on F.A.P. 196-B, Aurora Co., to Pioneer Bridge Co., Mitchell, $9,59[illegible]; one 60 ft. rein.-con. viaduct, on F.A.P. [illegible] Brule Co., to Diamond Eng. Co., Grand Island, Neb., $4,380; one 34 ft. and one 66 ft. rein.-con. viaduct, etc. on S.A.P. [illegible] Perkins Co., to Northwestern Eng. Co., Kadoka, $11,504. Grand total $[illegible]. Noted Feb. 25 under "Streets and Roads."

Tex., Carthage — See "Streets and Roads."

Tex., Linden—See "Streets and Roads."

Tex., San Antonio—A. McCloskey, Judge Bexar Co., 2 steel and concrete bridges in Precinct 4, to Lehr & Aiken, 812 Builders Exch. Bldg., $46,543. Noted Jan. 7.

Oklahoma—State Hy. Dept., Oklahoma City, (**e. e. means engineers estimate**) 1 span 88 ft. steel truss bridge on concrete piers at Tonkawa, Kay Co., 30.09 lb. truss steel, 14.98 tons reinforcing, etc. and 18 span 610 ft. creosoted pile trestle bridge at Keno, Harper Co., 116,171 ft. creosoted and 34,063 ft. untreated timber, 7,566 ft. creosoted piling, etc., to Pioneer Constr. Co., Orear-Leslie Bldg., Kansas City, Mo., $18,721 and $22,517 respectively, e. e. $25,000 each; 2 span 86 ft. rein.-con. trestle bridge on concrete piers, at Yukon, Canadian Co., 10.63 tons I-beam steel and 6.31 tons reinforcing, etc., to Oklahoma Stone Setting Co., 1835 West Main St., Oklahoma City, $24,480, e. e. $25,000; 1 span 114 ft. steel truss bridge on concrete piers near Bristow, Creek Co., 85.93 tons truss steel, 71,045 lb. reinforcing, etc., to Hamilton Constr. Co., Bartlesville, $30,416, e. e. $32,000; 2 span 220 ft. steel truss bridge on concrete piers near Sayre, Beckham Co., 137.95 tons truss steel, 32.91 tons reinforcing, etc. and 1 span 110 ft. steel truss bridge on concrete piers near Heavener, Le Flore Co., 84.4 tons truss steel, 47,420 lb. reinforcing, etc., to Woodward Constr. Co., Woodward, $33,222 and $29,939 respectively, e. e. $37,000 and $30,000 respectively. Grand total $159,295. Noted Mar. 11.

Wash., Everett—Snohomish Co., 170 ft. steel bridge with 80 ft. concrete approach at each end over Little Pilchuck River, to Dischaw & Peterson, Stanwood, $25,118. Engrs. est. $27,000. Noted Feb. 11.

California—State Hy. Dept., Sacramento, rein.-con. concrete arch bridge over Doney Creek, 1 mi. south of Antler, Shasta Co., to Bordwell & Zimmerman, Napa, $79,925; one over Bear Creek, at Briceburg, Mariposa Co., to Smith Bros., Eureka, $25,817; one over Slate Gulch, and one over Sweetwater Creek, Mariposa Co., to Noble Bros., San Jose, $19,286 (masonry finish). Grand total $125,028. Noted Mar. 18.

California—State Hy. Dept., Sacramento, completing bridge over San Joaquin River at Mossdale, San Joaquin Co., to Tibbetts-Pacific Co., 16 California St., San Francisco, $87,284.

Dams

Bids Desired

N. C., Highlands—See "Buildings—Industrial."

Railways

Proposed Work

Virginia—Southern R.R. Co., 1300 Penn Ave., Wash., D. C., B. Herman, ch. engr., plans improving railroad from Richmond to Danville, here. $200,000.

Florida—Atlantic Coast Line R. R. Co., Wilmington, N. C., J. E. Willoughby, ch. engr. plans 21 mi. railway from point at or near Thonotosassa in northeasterly direction to point on its west coast main line at or near Dade City, Hillsborough and Pasco Counties, here.

Tennessee—Nashville, Chattanooga & St. Louis R.R. Co., 930 Bway., Nashville, H. McDonald, ch. engr., plans automatic block train signals, electric crossing signals between Nashville and Chattanooga. $450,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

N. Y., Buffalo—Plans cleaning Delaware Park Lake. $300,000. J. Moore, City Hall, comr.

Excavation, Drainage, Irrigation, Levees, River and Harbor (Continued)

N. J., Jersey City—Bd. Comrs. of Mayor and Aldermen, City Hall, authorized $100,000 bonds, harbor improvements at Droyers Point, Hackensack River. E. J. Holland, city clk.

Wis., Milwaukee—Dept. Pub. Wks., R. Stoelting, comr., soon takes bids dredging various rivers and canals. $50,000.

Ark., Pine Bluff—Sub-District 1 of Salt Bayou D. D., plans 2.25 mi. ditch, 12 ft. bottom width and 6 ft. deep, 61,000 cu.yd. excav. Parkes Eng. Co., Citizens Bank Bldg., engrs.

Tex., Port Arthur — Election in June, $50,000 bonds, excavating and shell revetment, etc., 10,800 lin.ft. north side of Sabine-Neches Canal. W. O. Bower, city engr.

Tex., San Antonio—Making preliminary plans underground river cut-off tunnel, brick and concrete, from Travis to Market Sts. on straight line through S-shape of River Dist. Channel. $300,000. Former plans abandoned. I. Ewig, city engr. Noted Aug. 20.

Ontario—Dominion Government, Parliament Bldgs., Ottawa, plans constructing Welland Ship Canal, $14,000,000; Chambly improvements $55,000, St. Ouis Lock $50,000, Bakers Dam $30,000, Trent Canal $395,100, Welland Canal $123,000; improving harbors of Port Arthur and Fort William $500,000, Parrsboro, N. S. $29,000, New London, P. E. I. $30,000, Escunimac, N. B. $50,000, Metanc $55,000, Goderich $150,000, Oshawa $46,000, and Port Stanley $118,000, Quebec Harbor-Champlain Dock $60,000, St. John, N. B. $225,000, Toronto Harbor $94,000, and Fraser River, B. C. $50,000; new breakwater Drigwall (Aspy Bay), N. S. $48,700, and Grand Harbor, N. B. $25,000; dredging Petit-de-Grat, N. S. $37,500, Riviere du Loup, Que. $54,000, Valleyfield, Que. $50,000, Blind River $27,700, Omar Sound $20,000, Courtney River, B. C. $25,500, and False Creek, B. C. $50,000; new wharf in Sidney, N. S. $75,000; enlarging wharf Mills Point, N. B. $28,000, and Cap-de-la-Madeline, Que. $65,000; reconstructing wharf Chandler, Que. $90,000; dredging and wharf, Midland $75,000; reconstructing Burlington Channel Piers $36,000; repairing piers at Oakville $30,000, and Port Burnell, Ont. $45,800.

Bids Desired

New York—Apr. 14, by T. F. Farrell, comr. Canals & Waterways, 55 Lancaster St., Albany, bank protection along east bank of land line south of Lock 9, Champlain Canal, Sect. 2, Contr. M-15; and new movable dam, at Rocky Rift near Indian Castle, Contr. M-16; adv. E. N.-R. Apr. 1.

New York—Apr. 27, by T. F. Farrell, comr. Canals & Waterways, 55 Lancaster St., Albany, bank protection along Erie Canal from Vischer Ferry to point one mi. east of Frankford, Erie Canal Sects. 1, 2, 3 and 4, Contr. 232; adv. E. N.-R. Apr. 1.

N. Y., Long Island City—Apr. 2, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rip-rap embankment, outside of and adjacent to timber bulkhead along Beach Channel Dr. from Beach 130th to Beach 141st Sts., 5th Ward.

Miss., Sardis—Apr. 10, by Comrs. Sand Bayou D. D. of Panola Co. at office Montgomery & McClure, attys., improving above district.

La., Baton Rouge — Apr. 13, by Comrs. Gravity Drainage Dist. 3, C. W. Flynn, pres., R. F. D. 1, dredging Hurrican Creek, 28,000 cu.yd. excav.

Ill., Pulaski—Apr. 10, by H. Eastwood, C. Curry and I. Lackey, comrs. Briar Creek D. D., 3.25 mi. main ditch with base 6 ft. wide, 31,000 cu.yd. excav., and Laterals 1 and 2, 10,200 cu.yd. excav.

Bids Received

Md., Baltimore — Bd. Awards, Mar. 24, dredging Baltimore Harbor for 1926, for Mayor and City Council, from Arundel Corp., Pier 4, Pratt St., Item 1 $0.48. Noted Mar. 18.

Contracts Awarded

Calif., Aptos — W. I. Morgan, concrete seawall, 2,100 pieces concrete sheet piling 9 and 16 in. diam. of various lengths, 50,000 cu.yd. excav., etc., and 75 x 150 ft. swimming pool, to Blue Line Constr. Co., Standard Oil Bldg., San Francisco, approximately $750,000.

Calif., Richvale — Drainage Dist. 100, Butte Co., to C. Sewell, Gridley, canal improvements, 3 mi. widening from 3 to 4 ft. bottom and deepening 1 ft. $0.12 per lin.ft., and 3 mi. cleaning $0.075. Noted Mar. 11.

Streets and Roads

Proposed Work

N. J., Jersey City—Rejected bids Mar. 16, sheet asphalt paving Colgate, McAdoo, Van Horne and Pine Sts., Van Nostrand, Emerson and Cornelsen Aves. Will readvertise.

N. J., Jersey City—Comm. Streets & Pub. Impvts., M. I. Fagen, comr., plans widening Bergen Ave. from Montgomery St. to Bergen Sq.

N. J., Trenton—Mercer Co. plans widening and penetration macadam paving 3,500 sq.ft. Ewingville-Federal City Rd. $30,000. H. F. Harris, Court House, engr.

W. Va., Charleston—Jefferson Dist. election Apr. 13, $337,000 bonds, improving roads, Kanawha. R. N. Moulton, clk. Kanawha Co.

W. Va., Parkersburg—Election Apr. 6, $500,000 bonds, improving streets and sewers. M. L. Hoffman, city clk.

N. C., Raleigh—Plans widening sewers, waterworks, gas lines and paving 2 mi. Oberlin Rd., etc. C. C. Page, comr. Pub. Wks.

Ga., Hazelhurst—Jeff Davis Co. voted $150,000 bonds, improving various roads. R. H. Ordway, judge. Noted Feb. 11.

Ga., Milledgeville—Plans election $25,000 bonds, improving various streets.

Ga., Toccoa—Stephens Co. voted $200,000 bonds, constructing roads. Noted Mar. 4.

Ala., Auburn—Soon takes bids sidewalks and paving various streets. $75,000. C. S. Yarbrough, mayor.

Miss., Amory — S. A. Grady, mayor and Bd. Aldermen, rejected bids Mar. 5, improving various streets, 13,355 sq.yd. bituminous surfacing 8,004 sq.yd. prepared subsoiling and 5,900 ft. concrete sidewalks, etc. Will readvertise. A. L. Dabney, Columbian Tower Bldg., Memphis, Tenn., engr.

Miss., Pontotoc—Pontotoc Co. soon takes bids grading, gravel surfacing, etc., 9 mi. Federal Aid Project 182, 18 ft. $120,000. H. C. Dietzer, Jackson, engr.

Miss., Starkville—Oktibbeha Co. defeated $450,000 bonds, improving roads. Further action deferred. Noted Feb. 25.

La., Lake Charles—Calcasieu Parish election Apr. 27, $400,000 bonds, improving road system in Wards 2, 3, 7 and 8.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 6 mi. Mont Eagle-Coffee Co. line Rd., Grundy Co., and 3.5 mi. Knoxville-Southern R.R. Yards Rd., Knox Co. C. N. Bass, highway comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, plans improving 15 mi. Greenville-Bulls Gap Rd., Greene Co.; 15 mi. Ridgely-Kentucky State line Rd., Lake Co.; 12 mi. Union City-Martin Rd., Obion Co.; and 15 mi. Springfield-Kentucky State Line Rd., Robertson Co. C. N. Bass, highway comr.

Tenn., Altamont—Grundy Co. and State Dept. Highways & Pub. Wks., Nashville, take bids probably in May, improving 6 mi. Hillsboro-Pelham-Mont Eagle Rd. Work will be done under supervision highway dept.

Tenn., Huntington—Carroll Co. election probably in April, bonds to exceed $25,000, improving Huntington-McKenzie, Huntington - McLennville, Huntington - Clarksburg and Huntington-Jackson Rds.

Ohio—Dept. Highways & Pub. Wks., cancelled bids which were to be opened Mar. 19, grading, paving, etc., Sect. "N" Zanesville-Cincinnati Rd., Muskingum Co., and Sect. "Fultonham" same road; also Sect. "A-1" Van Wert-Ottawa Rd., Van Wert Co., and Sect. "A-2" same road. Noted Mar. 11.

O., Columbus—Made plans grading, curbing and paving with **(a)** brick **(b)** concrete **(c)** asphalt **(d)** durox, 1,335 ft. Columbian Ave., 26 ft., **(a)** $55,075; 300 ft. alley west of Hawkes Ave., 16 ft., **(b)** $3,022; 520 ft. Keifer Ave., 24 ft., **(a)** $8,543 **(c)** $7,618; 415 ft. alley west St. Clair Ave., 16 ft., **(b)** $2,807; 280 ft. Spring St., 46 ft., **(a)** $8,230; 485 ft. alley west of Avondale Ave., 16 ft., **(b)** $3,334; 731 ft. alley west of 22nd St., 15 ft., **(b)** $7,698; 4,371 ft. Walhalla Rd., 41 ft., **(c)** $76,049; 2,700 ft. Washington Ave., 30 ft., **(c)** $33,911; and 315 ft. alley north Main St., 23½ ft., **(d)** $4,832. R. H. Simpson, city engr.

O., Jackson — Made plans curbing, guttering and vitr. brick paving 3,600 ft. Church St. from Main to South Sts. $27,000. Address City Engineer.

O., Marietta—Made plans curbing, grading and 3½ in. vitr. brick on concrete paving 1,270 ft. Putnam St., 36 ft. $28,000. Address City Engineer.

Ind., Indianapolis — Bd. Comrs. Marion Co., Courthouse, rescinded contract improving 46th St., Washington Twp. Project abandoned. Noted Mar. 25.

Ill., Decatur—Plans grading, curbing and vibrolithic paving East Grand St. from Jasper to 1st Sts., $16,949; and grading, curbing and asphalt paving East Sedgwick St. from Jasper to 1st Sts., $17,389. M. P. O'Brien, City Hall, engr.

Ill., East Moline—Soon takes bids concrete paving 18,000 sq.yd. various alleys, $48,104; also 979 ft. 8 in. sewers and 6 in. water pipe, $4,870. F. O. Lovens, city clk.

Ill., East St. Louis — Soon takes bids grading, curbing and 8 in. concrete paving 19,060 sq.yd. Winstanley Ave. and 11th St. $89,400. W. McK. Brown, City Hall, engr. Noted Mar. 11.

Ill., East St. Louis — Soon takes bids grading and concrete or asphalt paving 75th St. from State St. to Church Lane, 46th St. from Caseyville to Lincoln Sts. and North High St. $91,200. W. McK. Brown, City Hall, engr. Noted Jan. 7 and Mar. 18.

Ill., East St. Louis—Made plans grading, curbing and concrete paving 33rd St. $36,000; Belleview Ave. $65,000; and College Ave. to Belmont on 37th Sts. $13,600. W. McK. Brown, City Hall, engr.

Ill., Lombard—Takes bids about May 18, grading, curbing and Warrenite bitulithic or concrete paving streets in Cambridge Manor Dist. G. H. Deuchler, 53 South La Salle St., Aurora, engr.

Ill., Rockford — Plans grading, curbing and Warrenite or macadam paving 9 blocks Grant Ave., 29 ft., $55,470; also grading, curbing and rein.-con. paving 10 blocks Nelson Blvd., $75,500. B. C. Harvey, City Hall, engr.

Ill., Rushville—Schuyler Co. plans grading and rein.-con. paving 3 mi. Camden Rd., State Aid Rd. 5-15-D, Buena Vista Twp., 18 ft. $75,000. W. S. Henderson, Court House, supt. highways.

Ill., Vandalia—Making preliminary plans grading, curbing and concrete paving 12 blocks 7th and South Sts., 30 ft. $70,000. State will pay for center 18 ft., and city balance. J. C. Waddell, City Hall, engr.

Ia., Burlington—Des Moines Co. election Apr. 12, $1,100,000 bonds, surfacing, paving, etc., primary road system. C. E. Waterhouse, Burlington, co. engr.

Ia., Ottumwa—Wapello Co. voted $1,000,000 bonds, improving primary road system. H. E. Hansell, Ottumwa, co. engr. Noted Mar. 4.

Ia., Sigourney — Keokuk Co. called off bond election for $1,250,000 bonds, improving various roads. R. C. Fye, Court House, engr. Noted Mar. 18.

Mo., Kansas City—Jackson Co. making plans improving approximately 2 mi. road. To exceed $25,000. L. E. Koehler, Kansas City, co. engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making plans concrete paving, etc., Baden St. between Bway. and Church Rd. $9,800, Cologne St. between Wilcox and Humboldt Sts. $3,150, and Dresden Ave. between Wilcox and Humboldt Sts. $3,900; Warrenite bitulithic paving, etc., Sublette Ave. between Arsenal and Elizabeth Sts. $47,200; concrete or asphaltic concrete or amiesite paving Delor St. between Brannon and January Sts. $34,500-$37,000; Warrenite bitulithic, amiesite or concrete paving Alsace St. between Marcus and Euclid Sts. $27,600-$29,300, Fillmore St. between Colorado and Grand-Kingshighway $26,500-$26,600, Robert St. between Virginia and Vermont Sts. $6,550-$6,600, Pennsylvania St. between Steins and Haven Sts. $53,800-$53,900; Warrenite bitulithic, asphaltic concrete or asphalt paving, etc., Beck St. between Oak Hill and Missouri St. $13,900-$14,000, Bates St. between Gravois and Eichelberger Sts. $14,200-$14,300, Odell St. between Watson Rd. and Clifton St. $9,700-$9,750; and asphaltic concrete, asphalt or amiesite paving, etc., Lea Pl. between Lea Ave. and end of street $3,900-$4,350. W. W. Horner, 300 City Hall, engr.

Ark., El Dorado—Union Co. takes bids about May 1, grading, gravel surfacing, etc., 20 mi. El Dorado-Magnolia Highway, 18 ft.; also gravel surfacing Strong-Huttig Rd. G. S. Tatum, co. judge.

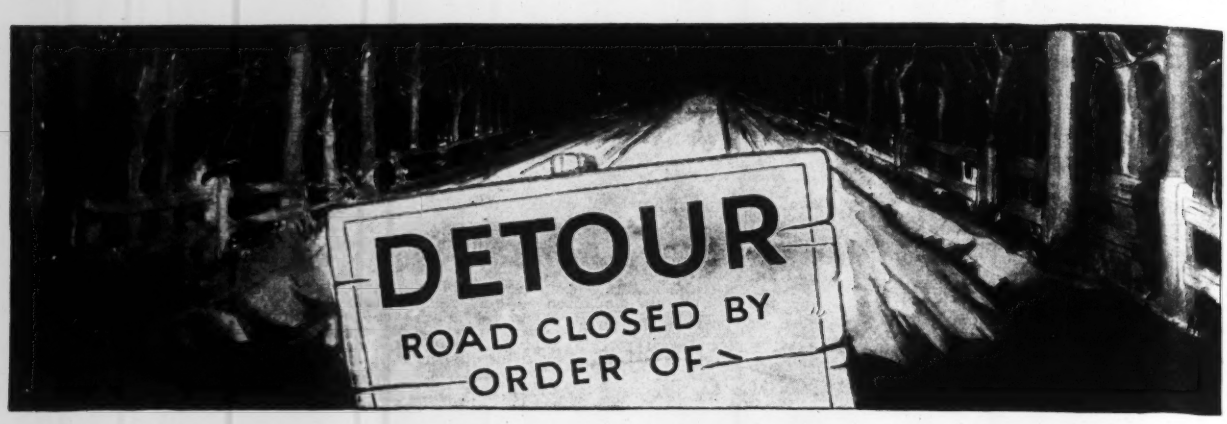
Tex., Clarendon—Takes bids about Apr. 12, paving approximately 40,000 sq.yd. various streets. $175,000. F. E. Devlin, 614 Bitting Bldg., Wichita, Kan., engr.

Tex., Galveston—Making plans and soon takes bids curbing, guttering and concrete or asphalt paving Bway. from 39th St. to city limits. $250,000. C. A. Holt, Jr., city engr.

Tex., Houston—Harris Co. voted $6,000,000 bonds improving 236 mi. roads. Noted Feb. 18.

Tex., Kountze—Hardin Co. plans gravel surfacing and bridging 1.8 mi. Highway 8 between Silsbee and Buna, 18 ft. $50,000. G. R. Abney, Lufkin, div. engr.

Tex., Lubbock — Election soon $30,000 bonds, hard paving Ave. 1, from 14th and 19th Sts. Address S. T. Davis, mayor.



The Drain of Detours

DON'T think of detours merely as exasperating inconveniences—think of them as *leaks in your community's pocketbook.*

The toll they take of your time, your gasoline, your tires and your car's mechanism is only a small part of their cost. The big burden—and usually a needless one—is the heavy cost of the repairs that are being made.

There are vitrified brick pavements on main traffic routes in many cities and towns which have already given more than a quarter-century of service without requiring a cent of expense for upkeep, repairs or rebuilding.

NATIONAL PAVING BRICK MANUFACTURERS ASSOCIATION
Engineers Building Cleveland, Ohio

To dodge the drain of detours—

PAVE WITH VITRIFIED Brick

The Pavement That OUTLASTS The Bonds

Streets and Roads (Continued)

Tex., Marlin — Falls Co. making plans grading, bridging and gravel surfacing 2.06 mi. Highway 108, Lateral south, $26,000; and 5.56 mi. Highway 108, State Aid Project 670-B, $46,000. V. B. Harris, Rosebud, engr.

Tex., Olney—Voted $25,000 bonds, paving various streets. Engineer not selected.

Tex., San Benito—Election Apr. 6, $75,000 bonds, paving various streets. R. T. Collins, city secy.

Tex., Sherwood—Irion Co. election soon $40,000 bonds, grading, bridging, etc., 6 mi. Highway 99. Address W. P. Rutledge, Sherwood, co. judge.

Tex., Texarkana — Heilbron Investment Co., making preliminary plans permanent paving 72,000 sq.ft. street Beverly Heights. $250,000.

Tex., Tyler—Voted $50,000 hardsurfacing various streets. A. B. Curtis, city secy. Noted Feb. 25.

Oklahoma — State Hy. Dept., Oklahoma City, made surveys grading, etc. 11 mi. Hobart-Cordell Rd., 30 ft., Kiowa Co. $35,000. J. M. Page, highway engr.

Okla., Vian — Making preliminary plans grading, curbing and concrete paving 8,400 sq.yd. Main St. $25,000. H. C. Hart, city clk. Engineer not selected.

Wash., Mt. Vernon—Comrs. Skagit Co. take bids about Apr. 15, concrete paving 1 mi. Permanent Highway 11, 16 ft. R. E. Knapp, Mt. Vernon, engr.

Wash., Seattle — Bd. Pub. Wks., rejected bids Feb. 26, concrete paving, etc., 32nd Ave. N. W. et al. $100,000. Will readvertise. J. D. Blackwell, city engr. Noted Mar. 25.

Calif., Bakersfield—Made plans improving Humboldt St. between Kern and Union Aves., 126,392 sq.ft. 1½ in. Warrenite on 3½ in. asphaltic concrete paving, 126,392 sq.ft. grading, concrete guttering, etc. To exceed $35,000. W. D. Clarke, city engr.

Calif., Newport Beach—Made plans curbing, guttering, walks, macadam and concrete paving, etc., Carnation, Acacia, Fernleaf Aves., etc. To exceed $250,000. P. Kressly, H. W. Hellman Bldg., Los Angeles, engr.

Calif., San Diego—San Diego Co. made plans improving Armada Terrace, 6,844 lin. ft. cement curbing, 17,819 cu.yd. excav., 13,788 sq.yd. 5 in. concrete paving, etc. F. A. Rhodes, City Hall, engr.

Calif., San Francisco—Made plans improving 31st St. between Vicente and Wawona Sts., 4,710 cu.yd. cut, 1,561 cu.yd. fill, 1,955 lin.ft. concrete curbing, 1,873 sq. ft. stone walks, 1,080 lin.ft. 8- to 15-in. ironstone sewer, etc. $25,000. M. M. O'Shaughnessy, city engr.

Ont., Toronto — City Council plans asphalt and concrete paving Glen Manor Dr. $27,486, Heath St. E. $3,757, Hammersmith Ave. $26,546, Selwood Ave. $7,916, Bonfield Ave. $8,042, and Briggs Ave. $1,474; concrete paving lane first west of Dovercourt Rd., $7,491; also bitulithic on concrete paving Hubbard Blvd., $27,175. R. C. Harris, City Hall, engr.

Ont., Toronto — East York Twp. plans curbing, guttering, asphalt on concrete paving 300 ft. Woodycrest Ave., 28 ft. $7,230; concrete curbing and 5 ft. concrete sidewalk, on 615 ft. Woodbine Ave., $1,530; grading Don Valley Dr. and Hillside Crescent, $26,000. G. R. Jack, 443 Sammon Ave., engr.

Ont., Toronto—York Twp. plans bitulithic or asphalt on concrete paving Rushton Rd. Cherrywood, Asbury, Amherst, Blandford, Cedric, Holland Park, Robina, and Rochvale Aves. $50,000. F. B. Goedike, 40 Jarvis St., engr.

Bids Desired

R. I., Warwick — Apr. 3, by Metropolitan Park Comn., State House, Providence, constructing Narragansett parkway from Spring Green Rd. to Bayside Ave. $75,000. State Engineer, State House, Providence, engr.

New York—Apr. 20, by A. W. Brandt, comr. highways, 55 Lancaster St., Albany, reconstructing roads in Chemung, Dutchess, Erie, Jefferson, Madison, Oneida, Ontario, Saratoga, Seneca and Steuben Counties; improving highways in Albany and Washington Counties; adv. E. N.-R. Apr. 1.

N. Y., Brooklyn—Apr. 7, by J. A. Guider, pres. Brooklyn Boro, Boro Hall, permanent asphalt paving Pierrepont St. and Utica Ave.; granite on 6 in. concrete paving Myrtle Ave.; asphalt resurfacing by heater method, Park Pl., Bond, Macon, and Pacific Sts., Classon, Rochester, South Portland, Washington and Willoughby Aves.; also roadways in various streets damaged by subsurface work, etc.

N. Y., Fine—Apr. 15, at office T. Holahan, 164 Lewis St., Rochester, completing. State Highway Contr. 8175, from here to Star Lake, St. Lawrence Co.; adv. E. N.-R. Apr. 1.

N. Y., Long Island City—Apr. 2, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing and sidewalks on 74th St. (17th St.); grading and restoring bituminous macadam paving over trenches opened for laying watermain in Rockaway Beach Blvd., Beach 142nd, 144th and 149th Sts.; bituminous on granite block paving Beach 95th St.; repairing sheet asphalt paving in 1st and 2nd Wards.

N. Y., New York—Apr. 8, by W. J. Flynn, acting pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., curbing and asphalt block on concrete repaving East 167th St.; sheet asphalt and granite block on concrete repaving Bergen and St. Anns Aves.; granite block on concrete paving Kingsbridge Rd., East 163rd and East 149th Sts., St. Anns and Odgen Aves.

N. Y., Poughkeepsie—Apr. 6, by Bd. Pub. Wks., Eastman Park Mansion, grading, curbing and 2 in. sheet saphalt on concrete paving 27,600 sq.yd. various streets. T. F. Lawlor, supt.; adv. E. N.-R. Apr. 1.

New Jersey — Apr. 12, by State Hy. Comn., Trenton, grading and rein.-con. paving 23,006 sq.yd. road from Pensauken Creek to Union School House Rd., Route 2, Sect. 9, Camden Co.; and grading road from Hackensack to Rutherford, Route 17, Sect. 1, Bergen Co. A. L. Grover, secy.; adv. E. N.-R. Apr. 1.

N. J., Freehold — Apr. 21, by Bd. Freeholders Monmouth Co., Courthouse, concrete paving Red Bank-Holmdel Rd. 44, Sect. 2, Middletown and Holmdel Twps. G. K. Allen, 60 Broad St., Red Bank, co. engr.; adv. E. N.-R. Apr. 1.

N. J., New Providence—Apr. 2, by Twp. Com., Columbia School, Plainfield Ave., grading and bituminous macadam on macadam paving 16,600 sq.yd. Plainfield Ave. J. J. Kentz, 23 Maple St., Summit, twp. engr.

N. J., Newark—See "Sewers."

N. J., Roselle—Apr. 2, by Boro Council, Boro Hall, grading, curbing and asphaltic concrete on concrete paving approximately 500 lin.ft. Golf Terrace, 800 lin.ft. 7th Ave., 1,300 lin.ft. Amsterdam Ave., 500 lin.ft. Olga Pl., 1,950 lin.ft. Morris St., 1,850 lin. ft. Frank St., 700 lin.ft. Galvin Ave., 1,100 lin.ft. Thompson Ave., 750 lin.ft. Hamilton Ave., 200 lin.ft. 10th Ave., 680 lin.ft. Spruce St., and 1,720 lin.ft. Warren St., W. M. Van Wagner, boro engr.

N. J., Union — Apr. 5, by Twp. Com., W. W. Friberger, clk., Town Hall, tarvia B, on several streets in Union Co.

Pennsylvania — Apr. 20, by State Hy. Dept., Harrisburg, grading or rein.-con. paving, etc. approximately 32 mi. eleven projects in Allegheny, Berks, Clarion, Dauphin, Franklin, Jefferson, Mifflin, Montgomery, Susquehanna, Tioga and Westmoreland Counties. W. H. Connell, engineering executive and deputy secy. Highways; adv. E. N.-R. Apr. 1.

Pa., Waynesburg — Apr. 3, by Comrs. Greene Co., rein.-con. paving, etc., 7,283 ft. Waynesburg-Blackville Rd., 16 ft., Wayne Twp. R. I. Lemley, co. clk.

Virginia—Apr. 15, by State Hy. Comn., Richmond, improving roads on Projects S-323-D, F-419-A, F-421-A and S-441; adv. E. N.-R. Apr. 1.

West Virginia—Apr. 20, by State Road Comn., Charleston, improving roads and bridges on Projects 154-A, 3038, 3039, 3177 and 128, Fayette Co.; Project 3235-C, Pocahontas Co.; Project 3295, Kanawha Co.; Projects 3250, 3315, 87, 2037 and 2038, Mason Co.; Project 3303-B, Mingo Co.; Projects 2063, 2064 and 2065, Ohio Co.; Projects 126, 151-A-1, and 151-A-2, Preston Co.; Project 3368, Webster Co., Project 70-R, Grant Co.; Project 3192, Morgan Co.; Project 152, Randolph Co.; Project 3277-D, Upshur Co., and Project 3266-D, Ritchie Co. E. B. Carskadon, secy.; adv. E. N.-R. Apr. 1.

N. C., Durham—Apr. 9, by City, grading, curbing, paving, etc., various streets. R. W. Rigsby, city mgr.; adv. E. N.-R. Apr. 1.

Ga., Dalton—Apr. 5, by City, paving 0.5 mi. various streets. $25,000.

Fla., Tampa—Apr. 6, by City Comrs., P. Wall, mayor, concrete or granite curbing, 2½ in. asphalt block or vitr. brick on rock or shell surfacing 10,000 sq.yd. portion Clark St., Impvt. 60, $26,000; 10,000 sq.yd. Chapin St., Maple and Hemlock Aves., Impvt. 57 to 59 (inclusive), $28,000; 9,000 sq.ft. Flagler, Oakwood and Elmwood Aves., Impvts. 54 to 56 (inclusive), $28,000; 58,000 sq.yd. portion Flo Ave., Impvt. 1, $150,000; 8,000 sq.yd. Fuller St. and Mass Ave., Impvts. 2 and 4, $25,000; 9,000 sq.yd. Impvts. 5 to 9 (inclusive), $25,000; 9,000 sq.yd. Kriber St., etc., Impvts. 15, 166, 21 and 51, $25,000; 9,000 sq.yd. portion 22nd St. and Saxon Ave., Impvt. 52 and 61, $30,000; and 10,000 sq.ft. portion 22nd St., Impvt. 53, $28,000. R. D. Martin, City Hall, engr.

Fla., Tampa—Apr. 9, by W. T. Williams, chn. Comn. Hillsborough Co., 26,311 sq.yd. lime rock base slag surface treating portion Armenia Ave. $25,000.

Ala., Florence—May 1, by City Comn., asphalt on concrete paving 25 blocks various streets in business section. 40 to 80 ft. $141,000. Address City Engineer.

Ala., Mobile—Apr. 28, by Bd. City Comrs., curbing, guttering, sewers and paving various streets. W. Smith, city engr.; adv. E. N.-R. Apr. 1.

Miss., Gulfport—Apr. 6, by E. McManus, city clk., City Hall, improving 10,400 ft. Beach Blvd. and Porter Ave., 1,000 cu.yd. new shell, 200 tons binder mixture, 300 ft. 12 in. and 300 ft. 15 in. pipe, 4,622 sq.yd. 2 in. Warrenite paving and 20,800 sq.yd. seal coating and penetration shoulder. A. J. Hawkins, Gulfport, engr.

Louisiana—Apr. 8, by State Hy. Comn., Baton Rouge, graveling 3.14 mi. New Hope-Good Hope Rd., State Project 533, St. Charles Parish. W. B. Robert, Reymond Bldg., Baton Rouge, highway engr.

La., Houma—Apr. 14, by Mayor and Bd. Alderman, hardsurfacing approximately 12,500 sq.yd. Main St. from Railroad Ave. to Magnolia Cemetery. D. Angers, city clk.

O., Canton—Apr. 15, by Comrs. Stark Co., concrete or macadam paving 1 mi. Bolton-Marlboro Rd., 16 ft. $30,000-$35,000. A. M. Wise, Canton, engr.

O., Cincinnati—Apr. 5, by Director Pub. Wks., granite curbing, cement sidewalks, granite block paving 3,800 sq.yd. Plum St. $63,812. C. O. Sherrill, City Hall, engr.

O., Cincinnati—Apr. 9, by Comrs. Hamilton Co., grading and concrete paving 12,000 sq.yd. North Bend Rd. from Burnt School House Rd. to Yogel Rd. $41,721, and 22,575 Camargo Rd. from corporation line of Maderia to Allendale, $96,516; and tar bound macadam paving 29 400 sq.yd.section road from Cincinnati-Dayton Pk. to Cincinnati-Zanesville Pk., $70,230. E. A. Gast, Court House, engr.

O., Upper Arlington (Columbus P. O.)—Apr. 7, by N. W. Copeland, village clk., improving various roads, 67,000 cu.yd. excav., 46,000 sq.yd. sheet asphalt, 6,000 sq.yd. penetrating macadam, 3,700 lin.ft. curb and gutters, 775 lin.ft. intersection edging, 5,000 lin.ft. 6 x 24 edging, 5,700 lin.ft. 12 in. sewers, 2,600 lin.ft. 15 and 20 in. storm sewers, 21,250 ft. 4- to 15-in. c.i. pipe, etc. $350,000. D. B. Sayers, 52 West Gay St., Columbus, engr.

Indiana—Apr. 14, by State Hy. Comn., Indianapolis, bituminous paving 52.07 mi. roads in Marion, Johnson, Henry, Union, Wayne, and Delaware Counties, Contr. 64, 65.81 mi. in Wells, Allen, Dekalb, Steuben, Grant, Wabash, Kosciusko, Elkhart and Adams Counties, Contr. 65, 15.44 mi. in Montgomery, Boone and Clinton Counties, Contr. 68; bituminous macadam topping and bituminous surface treating 51.88 mi. in Porter, Lake, Laporte, Starke, Cass, Carroll, Marshall and St. Joseph Counties, Contr. 66, 49.332 mi. in Floyd, Dearborn, Harrison, Lawrence, Monroe, Clark and Jefferson Counties, Contr. 69, and 8.4 mi. in Orange Co., Contr. 70. J. D. Williams, dir.

Ind., Anderson—Apr. 15, by Comrs. Madison Co., concrete paving, etc., 1½ mi. West 22nd St. from Meridian St. to Arron Ave., 20 ft., $39,000; 1½ mi. Cross St., North Anderson, 20 ft., $47,000; 1⅝ mi. 19th St. from Locust to Columbus Sts., 28 ft., $63,000; and 1½ mi. West 9th St. from Madison to Raible Sts., 20 ft., $40,000. M. H. Steele, Court House, engr.

Mich., Fordson—Apr. 13, curbing, 8 in. concrete paving, etc., 57,025 sq.yd., six streets. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, consult. engrs.; adv. E. N.-R. Apr. 1.

Mich., Holland—Apr. 7, by City, grading and 1½ in. sheet asphalt on 6 in. macadam paving 43,830 sq.yd. various streets. J. Zuidema, city engr.

Ill., Chicago—Apr. 7, at office Bd. Local Impvts., Room 207, City Hall, West 105th Pl., North Lotus, Potomac, Wabansia, South Irving, South Oakley, South Claremont, Thorndale, North Mason, Markham, North Lamon, LaCrosse, Laporte, North Lavergne, Montrose, South Winchester, and South California Aves., East 41st, West 103rd, 104th and 105th, North Robey, South State, West 63rd, West 70th, South Horne, South Lincoln, West 80th, 81st, 82nd and 83rd Sts. and various alleys. J. J. Sloan, pres.

Wis., Ocononowoc—Apr. 17, by Bd. Pub. Wks., M. E. Keats, city clk., concrete paving 10,260 sq.yd. 2nd St. To exceed $25,000. J. A. Stemper, City Hall, engr.

Wis., Racine—Apr. 3, by H. A. Nelson, comr. Pub. Wks., curbing, guttering and paving 46,907 sq.yd. 7 streets; also concrete curbing and guttering 9,107 lin.ft. curbing and guttering on various other streets. J. Beaugrand, City Hall, engr. Noted Feb. 18.

Wis., Shorewood (Milwaukee P. O.)—Apr. 5, by T. B. Olson, village clk., concrete

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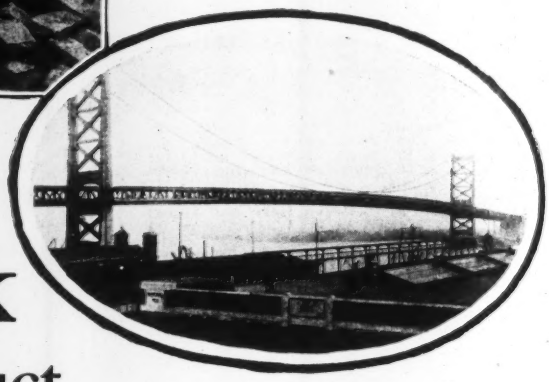

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Streets and Roads (Continued)

paving, etc. 21,000 sq.yd. various streets. H. A. Schmidt, village engr.

Wis., Tomahawk—Apr. 8, by H. G. Bell, city clk., vibrolithic, concrete, brick or sheet asphalt paving 37,060 sq.yd. 5th St., Tomahawk and Wisconsin Aves. E. B. Parsons, 419 North Washington St., Watertown, engr. Noted Mar. 4.

Wis., West Bend — Apr. 7, by H. W. Vroman, div. engr. at Office 2, 444 Milwaukee St., Milwaukee, improving South Germantown-West Bend Rd., Federal Aid Project 352-B, Washington Co., 31,595 cu.yd. earth, 750 cu.yd. loose, and 991 cu.yd. solid rock excav., 1,184 cu.yd. borrow, 49,787 sq.yd. concrete surfacing, etc. J. T. Donaghey, Madison, ch. engr.

Iowa—Apr. 6, by State Hy. Dept., Ames, grading 5.69 mi. Austinville Rd., Butler Co., 4.58 mi. Chariton Rd. Lucas Co., 4.59 mi. Council Bluffs Rd. Pottawattamie Co., and 0.419 mi. Indianola Rd. Warren Co. gravel surfacing 5.42 mi. Northwood-Lake Mills Rd. Worth Co., 11.38 mi. Manly Rd. Worth Co., 8.563 mi. Oelwein-Brewer Co. line Rd. Fayette Co., 1.34 mi. Nashua Rd., Chickasaw Co., 5.02 mi. Floyd Co. line-New Hampton Rd., both Chickasaw Co., 9.19 mi. Boxholm Rd., Boone Co. and 14.59 mi. Indianola Rd. Warren Co. F. R. White, ch. engr.

Ia., Keokuk — Apr. 12, by City Clerk, Warrenite bitulithic or sheet asphalt on present macadam surfacing 15,080 sq.yd. North 10th St. $32,000. F. W. Maxwell, City Hall, engr. Noted Mar. 5.

Ia., Waterloo — Apr. 5, at office Auditor Black Hawk Co., grading 5.53 mi. secondary road, incl. 17,000 cu.yd. excav., etc. W. D. Johnson, Waterloo, co. engr. Noted Jan. 29.

Minn., Elbow Lake—Apr. 6, by C. M. Nelson, aud. Grant Co., grading, etc., 98,319 cu.yd. Job 2601, State Rd. 14, and 97,117 cu.yd. Job 2602, State Rd. 15. $45,000. State Hy. Dept., St. Paul, engrs.

Minn., Minneapolis — Apr. 19, by A. P. Erickson, aud. Hennepin Co., widening and asphaltic concrete resurfacing 4 mi. Highway 7 between Wayzata-Minnetonka Beach. $136,000.

Minn., Moorhead — Apr. 5, by R. G. Price, city clk., paving, etc. 11 blocks 11th St. $50,000. Luckey-Miller Co., Moorhead, engrs. Noted Jan. 7.

Kan., Wichita—Apr. 9, by Sedgwick Co., grading 0.237 mi., 3 deck girder and 3 multiple box span bridges on Federal Aid Project 326-B.

Neb., Omaha—Apr. 6, by J. P. Hoctor, city clk., asphalt, asphaltic concrete, stone block, vitr. brick, vitr. brick block, creosoted wood block, artificial stone or Class A macadam paving, etc. Dists. 2184, 2424, 2708, 2783, 2813, 2864, 2865, 2874, 2896, 2903, 2905, 2920, 2933, 2942, 2943, 2951, 2959, 2986, and 2961. H. Beal, city engr.

Neb., Wolback — Apr. 7, by J. Sawicki, paving, etc. 8,920 yd. various streets. $39,200. H. A. Davis, Crete, engr.

North Dakota — Apr. 13, by State Hy. Dept. and Comrs. Adams Co., Court House, Hettinger, grading, etc., 0.139 mi. Federal Aid Project 243-C. C. Christensen, highway comr.

North Dakota—Apr. 14, by State Hy. Dept. and Bd. Comrs. Slope Co., Court House, Amidon, grading, etc., 9.756 mi. Federal Aid Project 220-B. C. Christensen, highway comr.

North Dakota — Apr. 15, by State Hy. Dept. and Comrs. Grant Co., Court House, Carson, grading, etc., 6.447 mi. Federal Aid Project 276-B. C. Christensen, highway comr.

Tex., Baird—Apr. 13, by V. G. Gilbert, judge Callahan Co., clearing, grubbing, sidewalks, bridging and grading 3.206 mi. Highway 23, State Aid Project 655-C, 26 ft. $66,000. G. E. Franklin, Eastland, engr.

Tex., Brownsville — Apr. 16, by O. C. Dancey, judge Camden Co., grading and bridging 24.412 mi. State Highway 100, State Aid Project 647, 26 ft. $68,000. W. O. Washington, Brownsville, co. engr.

Tex., Floydada—Apr. 19, by City, curbing, guttering and paving various streets. E. W. Gantt Co., 1116-18 West Main St., engrs.; adv. E. N.-R. Apr. 1.

Tex., Sherman—Apr. 5, by J. E. Ellington, city mgr., paving various streets. $40,000. Private plans.

Okla., Hobart—Apr. 5, by C. R. Williams, clk., grading, curbing and concrete paving 12,760 sq.yd. $41,864. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engr. Noted Jan. 21.

Colorado—Apr. 5, by State Hy. Dept., Denver, grading, paving, etc., 0.263 mi. State Project 904-B, Arapahoe Co., 7.565 mi. Federal Aid Project 287-B, Weld Co., 0.3229 mi. Federal Aid Project 272-C, Pueblo Co., 6.662 mi. Federal Aid Project 2-R, Constr. Div. 4, Las Anmas Co., 0.3598 mi. Federal Aid Project 290-B and 169-R, Bent Co.; also 324 ft. timber bridge over Middle Bijou Creek, on State Project 569, Arapahoe Co. L. D. Blauvelt, state engr.

Washington—Apr. 13, by State Hy. Dept., Olympia, **(S. R. means State Road and F.A.P. means Federal Aid Project)**, grading, etc. 214,000 cu.yd. Kettle Falls-Barstow Rd., F.A.P. 154-A, Ferry Co.; grading, concrete paving, etc. 55,000 sq.yd. S. R. 2, Cashmere-Dryden Rd., F.A.P. 149-A, Chelan Co. and 72,000 sq.yd. S. R. 5, F.A.P. 159-A, Pierce Co.; also crushed rock resurfacing 6,300 cu.yd. S. R. 8, Klickitat Co. J. W. Hoover, ch. engr.

Wash., Ellensburg — Apr. 8, by Comrs. Kittitas Co., crushed rock surfacing, etc., 6.5 mi. Permanent Highway 12. W. T. Bowman, Ellensburg, engr.

California—State Hy. Comn., Sacramento, taking new bids concrete widening 2.1 mi. between Borden and Madera. Former bids rejected. R. M. Morton, Forum Bldg., Sacramento, highway engr. Noted Feb. 18.

California—Apr. 12, by State Hy. Dept., Sacramento, concrete widening and asphaltic concrete surfacing 7.8 mi. road between Modesto and Stanislaus River, Stanislaus Co.; also grading and crushed stone or gravel surfacing 4.5 mi. road between Dog Creek and La Moine, Shasta Co. R. M. Morton, Forum Bldg., highway engr. Noted Mar. 11.

Calif., Oakland — Apr. 12, by Supervs. Alameda Co., improving Washington Ave. between San Leandro and San Lorenzo, 5,700 cu.yd. grading, 321,000 sq.yd. graveling and sub-grading, 292,000 sq.ft. 2 in. Warrenite bituminous on 6 in. concrete surfacing, or 2 in. asphaltic concrete surfacing, etc. To exceed $115,000. G. A. Posey, Oakland, co. surv.

Calif., Salinas—T. P. Joy, clk. Monterey Co., taking bids grading and graveling San Lucas-Coalinga Lateral in Priest Valley. To exceed $25,000. H. Cozzens, Salinas, co. surv. Noted Feb. 4.

Calif., San Diego — Apr. 12, by Common Council, improving Collier, Arizona Sts., etc., 227,367 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete surfacing, 300 lin.ft. concrete curbing, 8, 467 sq.ft. concrete sidewalk, five 4 in. and five 6 in. concrete sewer laterals, etc.; Oregon St. and University Ave., 120,551 sq.ft. 1½ in. asphaltic concrete on 5 in. concrete surfacing, 37 lin.ft. concrete curbing, 422 sq.ft. concrete sidewalk, etc.; and Dale St. between Juniper and Beech Sts., 149,996 sq.ft. 1½ in. asphaltic concrete on 5 in. concrete surfacing, 81 sq.ft. concrete sidewalk, 42 lin.ft. concrete curbing, etc. F. A. Rhodes, city engr. Noted Feb. 18 and Jan. 14.

Calif., Santa Monica—City Council taking bids grading, curbing and Warrenite-bitulithic paving 426,131 sq.ft. Colorado Ave. between 14th St. and northeast city limits. H. B. Carter, city engr. Noted Feb. 25.

Calif., San Rafael—Supervs. Marin Co., taking bids improving Point San Pedro Rd., 643 cu.yd. grading, 1,783 cu.yd. fill, 113,934 sq.ft. 5 in. asphalt, or concrete paving, etc.; also Santa Venitia Rd., 302 cu.yd. excav., 1,521 cu.yd. fill, 139,360 sq.ft. 5 in. concrete and 4 and 5 in. asphaltic concrete paving, etc. J. C. Oglesby, San Rafael, co. surv. Noted Mar. 25.

Ont., Beaverton—Apr. 5, by D. J. Kean, engr., Whitby, or G. Yule, clk., macadam, concrete or asphalt paving 1½ mi. various streets, here, for Village. $25,000.

Bids Received

N. Y., New York—W. J. Flynn, acting pres. Bronx Boro, Crotona Park, Tremont and 3rd Aves., Mar. 26, from C. D. Beckwith, 2875 Bway., sheet asphalt paving Bryant Ave. $11,095, Rochambeau Ave. $24,966, and East 210th St. $29,980, bituminous concrete paving Garden St. $4,277, and grading Miriam St. $8,441; from Asphalt Constr. Co., 208 Bway., sheet asphalt paving Walton Ave. $40,930, East 205th St. $29,991, granite block paving Fordham Rd. $37,968, and Tremont Ave. $46,105; from S. Nugent, 285 West 205th St., grading West 174th St., $32,536; and from L. Di Minna, 2366 Lorillard Pl., granite block paving Bronx St., $22,216. Noted Mar. 25.

N. J., Freehold—Monmouth Co., 250,000 gal. lignin binder on various roads, from M. R. Young, 34 Fisher Pl., Trenton, $30,500. Noted Feb. 18 under "Materials."

Pennsylvania—State Hy. Dept., Mar. 23, **(R. means Route and A. means Application)**, one course rein.-con. paving 14,300 ft. A. 3855, Dauphin Co., from Swanger & White, 2nd and Canal Sts., Lebanon $100,844, 4,982 ft. A. 3582, Lebanon Co., from Davis & Andrew, 520 Central Trust Bldg., Altoona $34,813, 32,279 ft. R. 492, A. 3543, York Co., and 2,965 ft. R. 44, A. 3933, Adams Co., from W. G. Raub Co., Red Lion $227,355 and $19,338 respectively, 33,267 ft. R. 538, Sect. 1, Allegheny and Beaver Counties, from Russell Bros., Route 5, Youngstown, O, $430,043, 20,660 ft. A. 3001-3835, Chester Co., from G. I. Thompson Co., Clearfield $143,350, 28,220 ft. A. 2816-3363-4033, Bedford Co., from Winters Constr. Co., 212 West Main St., Butler $227,496, 17,147 ft. A. 3656-3657, Fayette Co., from Pratt & Moore, Inc., Hollidaysburg $127,284, 9,328 ft. A. 3642, Beaver Co., from D. W. Challis & Sons, Inc., 420 Centenial Ave., Sewickley $67,810, 4,337 ft. R. 118, Sect. 5, A. 4034, Westmoreland Co., from W. H. Nicely Constr. Co., Ligonier $39,820; grading, etc. 42,018 ft. R. 219, Sect. 3, Clearfield and Centre Counties, from Edwards-Dunn Co., Inc., 202 Coutler Bldg., Greensburg, $116,747; broken stone on concrete paving 22,800 ft. A. 3759-3760, Monroe Co., from Lane Constr. Co., 35 Colony St., Meriden, Conn., $95,994; one course rein.-con. or bituminous surface course, Spec. D or E on 8.243 ft. A. 3441-3670, Bucks Co., from Union Paving Co., 123 South 21st St., Phila., $93,105. Noted Feb. 25.

Md., Baltimore — Bd. Awards, concrete paving 12,400 sq.yd. streets in Contr. 319, from Arundel Contg. Co., Knickerbocker Bldg., $33,692; sheet asphalt paving 18,500 sq.yd. streets in Contr. 317, from P. Flanigan & Son, Harford Rd. and Baltimore & Ohio R.R. tracks, $84,423, and 9,080 sq.yd. streets in Contr. 318, from Amer. Paving Co., Montebello Ave., $45,680.

Md., Baltimore — Bd. Awards, Mar. 17, sheet asphalt paving 9,000 sq.yd. streets listed in Contr. 315, from P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R. tracks $40,986, and 12,930 sq.yd. Contr. 314, from Amer. Paving & Constr. Co., Montebello Ave., $43,472; also redressed granite block paving 9,000 sq.yd. Contr. 316, from P. Reddington & Son, 2 East Lexington St., $26,519. Noted Mar. 11.

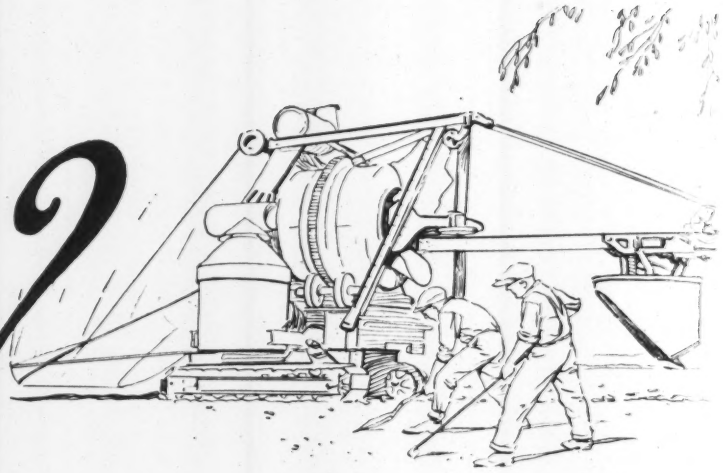
Md., Towson — Comrs. Baltimore Co., Courthouse, paving 2.03 mi. Group 3, Middletown, Graystone and Old York Rds., from Ward & O'Connell, New Amsterdam Bldg., Baltimore, $57,355. Noted Mar. 18.

Louisiana — State Hy. Comn., Baton Rouge, Mar. 16, graveling 5.25 mi. Covington-Franklin Highway, State Project 373-C, St. Tammany Parish, from J. H. Newton Constr. Co., Amite, $14,575; also 9.1 mi. Eunice-Lecompte Highway, State Project 380, Sects. B-2 and C-1, Evangeline Parish, from Baton & Mautersbough, Inc., Lake Charles $49,249. Noted Feb. 18.

Ohio—Dept. Highways & Pub. Wks., Columbus, Mar. 19, surfacing with **(a)** concrete **(b)** bituminous macadam **(c)** surface treated macadam **(d)** brick incl. brick **(e)** brick and macadam **(f)** brick, concrete base **(1)** 3.275 mi. Sect. "H" Hamilton-Eaton Rd., Butler Co. **(2)** 0.56 mi. Sect. "Sommerville" same road **(3)** 0.531 mi. Sect. "Salineville" Salineville-Wellsville Rd., Columbiana Co. **(4)** 3.12 mi. Sect. "E-1" Delaware-London Rd., Delaware Co. **(5)** 0.158 mi. Sect. "B-1" Ceylon-Norwalk Rd., Erie Co. **(6)** 0.628 mi. Sect. "Berlin Heights" same road **(7)** 1.032 mi. Sect. "C" Cambridge-Barnesville Rd., Guernsey Co. **(8)** 5.725 mi. Sect. "A" Ohio River Rd., Hamilton Co. **(9)** 0.256 mi. Sect. "E" Ceylon-Norwalk Rd., Huron Co. **(10)** 3.035 mi. Sect. "C-2" Mt. Vernon-Mt. Gilead Rd., Knox Co. **(11)** 1.942 mi. Sect. "H-1" McConnelsville-New Lexington Rd., Morgan Co. **(12)** 10 mi. Sect. "K-3" and "S" same road **(13)** 2.789 mi. Sect. "C" Shelby-Ashland Rd., Richland Co. **(14)** 4.709 mi. Sect. "A" Cleveland-West Richfield Rd., Summit Co. **(15)** 3.56 mi. Sect. "B-1 and C" Burton-Bloomfield Rd., Trumbull Co., grading, etc., **(16)** 2.421 mi. Sect. "L" Lancaster-New Lexington Rd., Fairfield Co. **(17)** Sect. "A" and "M," "N" and "O" Ohio River Rd., Gallia Co., crushing, hauling, etc., **(18)** 8.2 mi. Sect. "L and M" Jackson-Pomeroy Rd., Meigs Co. **(19)** 5.8 mi. Sect. "N" same road, Vinton Co., quarrying, crushing, etc., **(20)** 3.5 mi. Sect. "E" McConnelsville-Cambridge Rd., Morgan Co., from Central Constr. Co., Columbus, **(a1)** $93,651 **(a2)** $13,161 **(a8)** $312,676 **(b8)** $312,676; from Craig & Jordan, Blanchester, **(b1)** $95,580; from Lewis & Copeland, Lima, **(a3)** $18,605; from L. L. Clymer, Bluffton, **(c4)** $48,023; from Pettibone & Graves, Lakeside, **(a5)** $3,980 **(a6)** $25,700 **(a13)** $88,990 **(a14)** $194,140; from J. C. Drake, Marion, **(a7)** $37,845; from Miller & Fletcher, St. Clairsville, **(b7)** $34,369; from Seneca Constr. Co., Kansas, **(b8)** $218,895; from A. J. Baltes, Norwalk, **(a9)** $7,783; from Erman & Seible, Delaware, **(a10)** $80,699; from D. A. Phillip & Son, Ashland, **(d10)** $112,879; from M. B. Koffroth, Richwood, **(e11)** $52,179; from G. R. Stinchcomb, Columbus, **(12)** $18,105 **(18)** $7,622 **(19)** $9,253 **(20)** $4,655; from Mahoning Constr. Co., Warren, **(b15)** $32,994; from W. E. McGee & Son, Chillicothe, **(22)** $26,556. Noted Mar. 11.

O., Ravenna — Brick paving King and Prospect Sts., from J. L. McCormick,

Ready with a Batch?



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Streets and Roads (Continued)

Ravenna, $26,349 and $25,332 resepectively. Engrs. est. $30,000 each.

O., Steubenville — Jefferson Co. rolled slag surfacing Shane-Costonia Rd., from Wolfe & Wolfe, Steubenville, $52,923; improving Hammondsville-Pine Grove Rd., from Jefferson Constr. Co., Steubenville, 9 in. rolled banked slag paving $55,531, waterbound macadam paving $60,529.

Indiana—J. D. Williams, dir. State Hy. Comm., Indianapolis, Mar. 23, **(F. A. means Federal Aid, e. e. means engineers estimate, and S. R. means State Road)**, from G. Miller Constr. Co., Lebanon, concrete paving 10.637 mi. S.R. 11, F.A. 101, Sect. B., Huntington Co., $208,909 e. e. $241,214, 20.283 mi. S.R. 1, F.A. 85, Sects. A, B and C, Fulton Co., $362,765 e. e. $414,486, 17.878 mi. S.R. 1, F.A. 85, Sects. D, E and F, Marshall Co., $297,600 e. e. $337,288; from Tri Lake Constr. Co., Columbia City, 6.274 mi. F.A. 85, Sect. A, Miami Co., $106,560 e. e. $120,966, 6.805 mi. S.R. 1, F.A. 85, Sect. B, Miami Co., $133,107 e. e. $141,754; from McCoun Constr. Co., Noblesville, 6.9 mi. S.R. 1, F.A. 85, Sect. D, Fulton Co., $124,124, e. e. $142,980; from Gluss Bros., Hamler, O., 6.441 mi. F.A. 85, Sect. E, Marshall Co., $105,052, e. e. $115,438; from Jenkins McKinsey, Frankfort, 7.204 mi. S.R. 1, F.A. 85, Sect. C, Fulton Co., $132,460, e. e. $152,047; from Hutchinson Constr. Co., Indianapolis, 4.537 mi. S.R. 1, F.A. 85, Sect. F, Marshall Co., $68,882, e. e. $79,081; from Cunningham Constr. Co., Rockville Rd., Indianapolis, 10.622 mi. S.R. 11, F.A. 101, Sect. A, Grant and Huntington Counties, $193,967, e. e. $228,648; from H. A. Carpenter Constr. Co., Brazil, 10.608 mi. S.R. 8, F.A. 103, Sect. A, Lake and Porter Counties, $193,041, e. e. $235,907. Noted Mar. 11.

Wis., Sheboygan Falls — L. Kalk, city clk., from Universal Eng. Co., Medford, improving various streets, 14,455 cu.yd. excav. at $0.65 per cu.yd., 40,000 sq.yd. one course concrete paving, $2.09, etc., total $110,202. Noted Mar. 4.

Minnesota—State Hy. Dept., Mar. 16 **(S. P. means State Project and F. A. P. means Federal Aid Project)** paving 70,942 sq.yd. S. P. 3-45, Sect. 3, F.A.P. 363, and 77,760 sq.yd. S. P. 3-45, Sect. 4, F.A.P. 25, from Western Asphalt Paving Co., 1st and Nebraska Sts., Sioux City, Ia. $217,034; 67,692 sq.yd. asphaltic concrete paving S. P. 10-39, F.A.P. 382, from Hanlon & Okes, 1501 Merchants Bank Bldg., St. Paul, $152,167; grading, etc. 190,000 cu.yd. S. P. 6-40, Sect. 2, F.A.P. 349, from Strom Constr Co, Gary $62,487, and 60,000 cu.yd. S. P. 4-34, Tenstrike-Hines Rd., from Nelson Mullen & Nelson, 355 Temple Court Bldg., Minneapolis 36,871; also grading and bridging 342,000 cu.yd. S. P. 5-31, Sect. 1, F.A.P. 380 and 196,000 cu.yd. S. P. 37-21, Sect. 3, F.A.P. 376, from Nolan Bros., 18 North 2nd St., Minneapolis, $144,282 and $62,024 respectively. Noted Mar. 11.

North Dakota — State Hy. Dept. and Comrs. Benson Co., Court House, Minnewaukan, Mar. 11, grading, etc., 75,975 cu. yd. Federal Aid Project 290-A-B, from Schultz Bros., Bowbells, $31,693.

Texas—State Hy. Comn., Austin, Mar. 5, **(e. e. means engrs. est.)**, bituminous surface treating, etc., 161 mi. highway in Red River, Bowie, Cass, Titus, Delta, Collin, Denton and Wise Counties, from Cocke & Turner, Marshall, $230,720, e. e. $400,000; 119.37 mi. highways in Bell, Williamson and Milam Counties, from McClung Constr. Co., Cleburne, $174,898, e. e. $225,000; 183.3 mi. highways in Howard, Marten, Midland, Ector, Scurry, Brewster and Potter Counties, from Sherman-Youman Constr. Co., Houston, $179,600, e. e. $525,000. Noted Feb. 25.

Tex., Clarksville—Red River Co., grading, clearing, grubbing, bridging and gravel surfacing 1.01 mi. State Highway 66, Federal Aid Project 364-A, from Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $42,980. Engrs. est. $46,500.

Tex., Dallas—Dallas Co., grading, bridging and gravel surfacing 3.053 mi. Highway 78, State Aid Project 643, 16 ft., from A. Jackson, 4704 Bryan St., $29,797. Engrs. est. $32,500.

Tex., Memphis—Hall Co., 2½ in. brick on 4 in. concrete paving various streets, from Panhandle Constr. Co., Lubbock, $181,550. Engrs. est. $190,000.

Nev., Reno—Improving various streets, 660,000 sq.ft. 1½ in. on 3½ in. asphaltic concrete paving, 60,000 sq.ft. patching and replacing pavement, from Smith-Peterson Co., Reno, $129,600.

Nev., Reno—J. B. Reese, city clk., Mar. 15, 660,000 sq.ft. 1.5 in. on 3.5 in. asphaltic concrete paving and 60,000 sq.ft. repairing various streets, from I. Christensen, 109 Sierra St., $59,944. Noted Mar. 4.

Wash., Seattle—Bd. Pub. Wks., Mar. 12, brick and concrete paving, etc., North 36th St. et al, from Erickson Paving Co., Henry Bldg., $81,477.

Wash., Wenatchee — City Comrs., 8 in. concrete paving 23,400 sq.yd. and 7 in. 7,700 sq.yd. Columbia and Yankton Aves., from P. H. Adams & Co., Wenatchee, $110,721. Engrs. est. $125,000. Noted Mar. 18.

California—State Hy. Comn., Sacramento, Mar. 22, grading, bituminous macadam paving, etc. at Chalk Hill, Los Angeles Co., from H. A. McCray, 129 West 2nd St., Los Angeles, $44,517. Noted Mar. 11.

Calif., Los Angeles—From W. Liddington, 420 East 60th St., improving 84th St. and Bway-Impvt. Dist., 888 lin.ft. curbing $0.45 per lin.ft., 227 lin.ft. guttering $0.25, 4,487 sq.ft. sidewalk $0.14, 7,080 sq.ft. remodel asphaltic concrete paving $0.25, 197,304 sq. ft. 6 in. concrete base $0.184, etc., total $44,438. Engrs. est. $48,840. Noted Dec. 17.

Calif., Long Beach — From Dudley & Hicks, 2364 Atlantic Ave., improving Loma Ave. between Anaheim and State Sts., 96,599 sq.ft. 7 in. concrete paving $0.22 per ft., etc. Noted Mar. 11.

Calif., Santa Ana—For 5 in. concrete paving, etc., 519,615 sq.ft., various streets in southwest section of city, from Wells & Bressler, California Bank Bldg., $0.125 per ft., total approximately $81,335. Noted Mar. 25.

Ontario—Dept. Pub. Highways, 110 University Ave., Toronto, concrete structure, Simpsons Gulley, culvert and approaches, Contr. 272, to Johnson Bros., 43 Market St., Brantford, about $20,000; macadam paving 4 mi. road from Belleville South, 20 ft., Contr. 1280, to McGinnis & O'Connor, Kingston, about $60,000, 5.24 mi. road from Fraserville to Bailieboro, Contr. 1281, to Dufferin Constr. Co., foot of Bathurst St., Toronto, $75,000, 4 mi. road from Georgetown westerly, Contr. 1282, to H. T. Routley, 90 Jarvis St., Toronto, $60,000; concrete culvert with approaches at Louisville, Contr. 1287, to Holdroft Constr. Co., 1 Mack St., Kingston, $15,000.

Contracts Awarded

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., laying and relaying sidewalks and curbing when and where directed during year 1926, to Valatia Constr. Co., 15 East 45th St., $5,242, and to J. Meehan & Son, 74 Courtlandt St., $28,295; also granite block on concrete repaving and widening 4th Ave., to W. J. Fitzgerald, 547 West 45th St., $87,976. Grand total $121,513. Noted Mar. 25.

New Jersey—State Hy. Comn., Trenton, improving Route 18, Sect. 2, Alpine to New York State Line, Bergen Co., 9,000 cu.yd. rock excav., 22,564 cu.yd. borrow, 24,951 sq.yd. 8 in. rein.-con. paving, etc., to S. J. Groves & Sons, 114 Marlton Pick, Camden, $242,880. Noted Mar. 4.

New Jersey—Bd. Freeholders Monmouth Co., Court House, concrete paving 2.388 mi. Allenwood-Manasquan Rd., to Interstate Eng. & Contg. Co., 918 Catherine St., Phila., Pa., $90,587; and 0.57 mi. Manasquan-Biggetts Rd., to P. Camillo & Co., 335 Spring St., Westfield, $25,694. Noted Mar. 11.

N. J., Atlantic City — Atlantic Co. (Mays Landing) treating six roads, here, to T. Tobish, Mechanic Bldg., Trenton, $91,948.

N. J., Camden—Delaware River Bridge Joint Comn., Widener Bldg., Phila., Pa., completing Camden Approach of bridge over Delaware River connecting cities of Phila. and Camden, to O'Neill Co., 127 East Mermaid St., Phila., $251,889.

N. J., Palisades Park—Grading and asphalt paving Broad Ave., etc., to J. M. McGarry, Palisade Ave., Ft. Lee, $157,720.

N. J., Tuckerton—Boro Council, concrete curbing and sidewalks on various streets, to Strudwick & Dodd, Ocean Grove, $68,660. Noted Feb. 25.

Pa., Ebensburg—I. J. McKendrick, solicitor, grading and one course rein.-con. paving 1 mi. Reade Twp. Rd., Cambria Co., 16 ft., to E. H. Brua, Hollidaysburg, $44,384. Noted Mar. 4.

Pa., Pittsburgh—Allegheny Co., general contract rein.-con. paving, etc., 8,896 ft. Hampton Twp. Rd., to Thomas Cronin Co., South 18th St., $84,556. Engrs. est. $100,000.

Maryland — State Rds. Comn., Garrett Bldg., Baltimore, oiling roads in Group 3, 66,430 gal. oil, Montgomery, Prince George and St. Marys Counties, and Groups 4 and 7, 146,451 gal. oil, Baltimore and Harford Counties, to E. P. Pendleton, 16 South Calverton Rd., $8,503 and $18,089 respectively; 62,955 gal. roads in Groups 1 and 2, Caroline, Cecil, Queen Annes, Wicomico and Worcester Counties, to U. G. I. Co., Broad and Arch Sts., Phila., Pa., $8,354; 90,075 gal. in Group 6, Allegany, Frederick, Garrett and Washington Counties, to Atlantic Refining Co., 260 Broad St., Phila., Pa., $12,277; 176,737 gal. roads in Group 5, Carroll, Frederick, Howard and Montgomery Counties, to Earle & Lansdale Co., 173 Main St., Hackensack, N. J., $22,377; and 182,478 gal. in Group 3, Anne Arundel, Calvert, Charles and St. Marys Counties, to Barrett Co., Warwick and Mulberry Sts., Baltimore, $27,189. Grand total $96,789. Noted Mar. 11.

Md., Baltimore—Bd. Awards, 9,000 sq.yd. sheet asphalt paving Contr. 315, to P. Flanigan & Son, Harford Rd. and Baltimore & Ohio R. R. tracks, $40,986, and 12,930 sq.yd. streets in Contr. 314, to Amer. Paving & Contg. Co., Montebello Ave., $43,472; redressed granite block paving 9,000 sq.yd. streets, Contr. 316, to P. Reddington & Son, 2 East Lexington St., $26,519. Grand total $110,977. Noted Mar. 11.

W. Va., Charleston—H. C. Walker, city mgr., concrete paving Garden and 5 other streets, to Andrews Asphalt Paving Co., VaLand Bank Bldg., $33,952; West Ave. and 6 other streets, to J. E. Reed & Co., Charleston, $47,774.

W. Va., Charleston—Kanawha Co., concrete surfacing 1.1 mi. Ruffner Hollow Rd., Project 143, 16 ft., to Brown & Floyd, Lowenstein Bldg., $29,689. Noted Mar. 11.

La., Napoleonville—Assumption Parish, grading and graveling 12 mi. Brulee-Labadie, Himelaya and Marais-Cancienne Rds., etc., to Burke & Jones, New Iberia, $42,170. Noted Feb. 18.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, concrete surfacing Project 36-A, Fayette Co., and Project 204, Tipton Co., ot Peerless Constr. Co., Terre Haute, Ind., $209,720, Project 36-C, Shelby Co., to J. C. McFarlin & Co., Keeling, $55,936, Project 39-A, Dyer Co. and Project 39-B and C, Lauderdale Co., to J. F. Kelley Co., Terre Haute, Ind., $479,386, Project 44-A, Greene Co., to Calloway & Fisher, Lenoir City, $301,555, Project 78-A, Bradley Co., to Gamble Constr. Co., Power Bldg., Chattaooga, $231,981, Project 113-D, Scott Co., to Shea Bros., Knoxville, $45,829, Project 127-C, Sumner Co., to Clayton Paving Co., 44 Noel Blk., Nashville, $20,029, Projects 175-A and 193, Gibson Co., to J. E. Pryor Co., Martin, $246,606, Project 198-A, Cumberland Co., to Elkas & Weathers, Greenville, Miss., $100,091, Project 198-B, Cumberland Co., to L. G. Dixon, 2312 Belmont Blvd., Nashville, $78,988, Project 300-C, Morgan Co., to North Fork Constr. Co., Jackson, Ky., $86,901, Project 311-A and B, Hardin and McNairy Counties, to Martin & Scott, Lakemont, Ga., $144,384, Project 312-A, Stewart Co., to C. & G. Constr. Co., Dickson, Tenn., $101,110, Project 322-A, McMinn Co., to Freeman & Ferris, Knoxville, $58,984, Project 324, Hamblin Co., to Harrison, Walters & Prater, White Plains, $55,881, Project 61-A, Bedford Co., to B. Williams, Murfreesboro, $105,822, and Project 64-A, Obion Co., to C. E. Cresap, Humboldt, $43,227; 2 in. asphaltic concrete on concrete surfacing Project 141-C, 179 and 199, Knox and Blount Counties, to R. L. Peters, Holston Bank Bldg., Knoxville, $159,055; 2½ in. penetration surfacing Project 173-A, Robertson Co., to E. L. Traughber, Adairville, Ky., $95,712. Grand total $2,621,197. Noted Feb. 25.

O., Cincinnati — Comrs. Hamilton Co., grading, guttering and concrete paving 18,320 sq.yd. Camargo Pk. from corporation line of Cincinnati to Maderia, to Biegler Bros., Franklin, $119,068. Engrs. est. $130,623. Noted Mar. 18.

O., Cleveland—Creosoted lumber resurfacing Central Viaduct, to Forschner Co., East 10th St. and St. Clair Ave., $69,996.

Wisconsin—State Hy. Dept., Madison, to S. J. Groves & Sons, Globe Bldg., Minneapolis, Minn., improving Winona-Marshland Rd., Federal Aid Project 340-B, 22,538 cu. yd. earth excav. at $0.30 per cu.yd., 50 cu. yd. loose rock excav. $1, 1,600 cu.yd. solid rock excav. $1.50, 4,717 cu.yd. borrow $0.35, 5,406 sq.yd. concrete paving $2.15, and 1,454 cu.yd. gravel surfacing $2.75, etc., total $39,184.

Wisconsin—State Hy. Dept., Madison, to H. P. Nelson, Ossee, improving Hustler-Sparta Rd., Job 5692, 42,650 cu.yd. earth excav. at $0.37 per cu.yd., 780 cu.yd. loose rock excav. $0.70, 2,084 cu.yd. solid rock excav. $1.50, 8,673 cu.yd. borrow $0.40, 1,335 cu.yd. channel change $0.40 and 3,690 cu.yd. pea gravel surfacing $4.38, etc., total $91,560.

Wisconsin — State Hy. Dept., Madison, grading and pea gravel surfacing, etc. 5,389 cu.yd. New Lisbon-Sparta Rd., Federal Aid Project 325-A, Monroe Co., to A. Larson & Co., Eau Claire, $62,671.

Wisconsin — State Hy. Dept., Madison, grading, concrete paving, etc., 122,555 sq.yd. Cambridge-Madison Rd., Job D 136-1926, Dane Co., to J. R. Griffith Co., Racine, $204,497.

Streets and Roads (Continued)

Wis., Appleton—F. L. Williams, city clk., rein.-con. paving North State St., to F. P. Coughlin Co., 1735 Fullerton Ave., Chicago, Ill., $40,229; and vibrolithic concrete paving South Cherry St., to Garvey & Weyenberg Constr. Co., 107 West College Ave., $34,237.

Wis., Milwaukee—Dept. Pub. Wks., R. Stoelting, comr., concrete paving 11 alleys, to F. W. Blodgett Co., Inc., Newton Ave., $18,962; and 7 alleys, to W. F. Hunt, 405 Bway., $24,934.

Wis., Milwaukee — Dept. Pub. Wks., to Milwaukee General Constr. Co., 427 Mitchell St., vibrolithic concrete paving Sheridan Ave. $15,342, Hayes Ave. $2,222, 13th Ave. $9,309, 23rd Ave. $10,389; to W. F. Hunt, 405 Bway., 24th, West 24th and 25th Sts. $23,253, 24th and West 24th Sts. $23,253, 25th and 26th Sts. $23,015, 1st St. $16,376, Island Ave. $11,077. Grand total $134,236.

Wis., Milwaukee—Dept. Pub. Wks., to W. F. Hunt, 405 Bway., vibrolithic concrete paving 11th Ave. $40,252, 10th Ave. $33,300, and concrete paving 1 alley $7,146; to F. Hildebrand, 1042 23rd Ave., vibrolithic concrete paving 14th Ave. $3,059, and concrete paving 1 alley $6,292; to Gumz & Switalski, 831 13th Ave., vibrolithic concrete paving Harrison Ave. $6,534, 28th Ave. $12,600, 29th Ave. $7,105; to J. Bluhm & Son, 1298 Achilles Pl., vibrolithic concrete paving West 19th St., $9,225; to Rybach & Sadowski, 1092 2nd Ave., concrete paving 1 alley, $6,436, and to Kroening Constr. Co., 39th Ave. and Mitchell St. alleys $21,755. Grand total $153,704.

Wis., Whitefish Bay — W. Volkman, village clk., 3,359 ft. 6 in. c.i. mains in various streets, to R. J. Wilson & Co., Appleton at $2.20 to $2.80 per ft.; 9,609 ft. 6 in. in various streets, to Wenzel & Henoch Co., 498 27th St., Milwaukee, $2.08 to $2.25; 4,787 ft. in various streets, to Ribbens Bros., Mayville, $2.40 to $2.73; and 4,084 ft. 8 in. mains in various streets, to F. E. Kaminski, 745 46th Ave., $2.89. Noted Mar. 4.

Kan., Greensburg — Clerk Kiowa Co., grading, etc. 3.666 mi. Federal Aid Project 305-A, and grading, bridging, etc. 3.64 mi. Federal Aid Project 275-A, both 28 ft., to Maney Bros. & Co., Empire Bldg., Oklahoma City, Okla., $7,608 and $16,056 respectively. Engrs. ests. $9,551 and $18,965 respectively.

Kan., McPherson—McPherson Co., grading 7.817 mi. Federal Aid Project 278-A, to Campbell & Lachenmaier, Miltonvale, $20,318; bridges and culverts, to Shuss & Henderson Larned, $27,698 less 1.8051 per cent. Noted Feb. 11.

South Dakota—State Hy. Dept., Pierre, **(F. A. P. means Federal Aid Project)**, to Dowd Bros.-Noonan-Hyde Co., Watertown, grading, etc., 17.89 mi. F. A. P. 195-A, Hamlin Co. $53,660, 12.66 mi. F. A. P. 193-C, Grant Co. $33,773, and 18.67 mi. F. A. P. 193-D, Deuel Co. $46,839, to Northwestern Eng. Co., Kadoka, 4.35 mi. S. A. P. 95, Perkins Co. $12,787, to Miller & Winegar, Sioux Falls, 11.97 mi. F. A. P. 188-F, Mineral and Lake Counties, $34,559, to Tobin & Maloney, Madison, 1.87 mi. F. A. P. 207-A, Minnehaha Co. $11,203, 13.88 mi. F. A. P. 197-A, Minnehaha and Lincoln Counties $37,280, 8.02 mi. F. A. P. 197-B, Lincoln Co. $16,540, gravel surfacing, etc., 14.03 mi. F. A. P. 184-A, Spink Co. $15,897; to Jahnig & Davis, Britton, grading, etc., 10.96 mi. F. A. P. 198-A, Brown Co. $26,336, to Walworth Co., Selby, F. E. Gehrki, highway comr., 4.48 mi. F. A. P. 190-B, $18,151, to R. P. England, Murdo, 18.24 mi. F. A. P. 189-C, Brule Co. $44,232; to Van & Van, Hull, Ia., gravel surfacing, etc., 12.3 mi. F. A. P. 184-B, Beadle Co. $14,023, 14.3 mi. F. A. P. 178-C, Yankton Co. $21,442, to S. S. Roberts, Flandreau, 11.06 mi. F. A. P. 186, Sanborn Co. $11,945, 9.64 mi. F. A. P. 186-C, Sanborn Co. $12,832, to H. Pickus Constr. Co., Sioux City, Ia., 5.6 mi. F. A. P. 100-A, Pennington Co. $15,814, to Lindekugel & Barthelow, Spencer, 6.89 mi. F. A. P. 178-A, Bon homme Co. $7,471, and to R. L. Wiley, Summitt, 21.63 mi. F. A. P. 82, Meade Co. $33,710. Grand total $468,494. Noted Feb. 25.

North Dakota — State Hy. Dept. and Comrs. Kidder Co., Court House, Steele, **(F. A. P. means Federal Aid Project)**, constructing 7.14 mi. F.A.P. 327-A, to Steig & Olson, Esmond, $29,501; also grading 13.455 mi. F.A.P. 306-A and 13.985 mi. F.A.P. 306-B, to F. O. Smith, Steele, $30,196 and $35,615 respectively. Grand total $95,312.

North Dakota — State Hy. Dept. and Comrs. Ward Co., Court House, Minot, gravel surfacing, etc., 9.111 mi. Federal Aid Project 86-G and 8.196 mi. Federal Aid Project 182, to Stevens Bros., 612 Endicott Bldg., $17,020 and $20,675 respectively; also 18.441 mi. Federal Aid Project 181, to Win Coman, Goodrich, $33,800. Grand total $71,495. Noted Feb. 25.

Montana—State Hy. Dept., Helena, ¾ in. crushed gravel resurfacing 11,540 cu.yd. Federal Aid Project 53-B, Yellowstone Co., to G. B. Selvidge, Billings, $18,060; grading and gravel surfacing 15.35 mi. Federal Aid Project 187-A, Yellowstone Co., to W. E. Applegate, Butte, $131,550, engrs. est. $141,479; and grading, gravel surfacing, etc., 7.5 mi. Federal Aid Project 197, Sanders Co., to Buck Helean, Missoula, $53,308. Grand total $202,918. Noted Mar. 4.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, asphalt paving 25,260 sq.yd. Easton Ave. and 965 sq.yd. Theodore St., to Webb Boone Paving Co., 5103 Fyler Ave. $151,822 and $12,985 respectively, 8,480 sq.yd. Lynch St. to C. A. Moreno, Syndicate Trust Bldg. $57,929, 3,075 sq.yd. Bernard St., to Bridges Asphalt Paving Co., Buder Bldg. $21,438, 3,790 sq.yd. Missouri So., to Eyermann Constr. Co., 1216 South Grand Blvd. $18,093, 2,860 sq.yd. Wydown Blvd., to Central Paving & Constr. Co., 6161 Maple Ave. $11,624; and 790 ft. 10- to 15-in. vitr. clay sewers, etc. in Dale Ave. Sewer Dist. 6, to Grand & Meinert, c/o Municipal Contrs. Assn., Fullerton Bldg., $2,786. Grand total $276,677.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, concrete paving alleys in City Blocks 1245, 5203, 5204, 5205, 5206, 5525, 5531 and 5532, to Perkinson Bros. Constr. Co., 3237 Carter Ave., $19,983; in City Blocks 2868-E, 2997-A, 2999, 3000, 3016, 3038, 4411-A, 5127 and 5128, to A. Lewald, 1219 Amherst Pl., $17,746; and in City Blocks 3607, 4364, 4602-E, to Skrainka Constr. Co., Security Bldg., $7,957. Grand total $45,686.

Tex., Henrietta — Clay Co., to Thurber Constr. Co. and General Constr. Co., Cotton Exch. Bldg., Ft. Worth, rein.-con. paving 6.89 mi. State Highway 5, Federal Aid Project 448-A $169,962 engrs. est. $222,300, and 7.14 mi. Federal Aid Project 448-B $170,852 engrs. est. $230,000, 9.25 mi. State Highway 50, Federal Aid Project 449-A $225,864, engrs. est. $302,700, and 10.24 mi. Federal Aid Project 449-B $254,787, engrs. est. $330,000, all 18 ft.

Tex., Carthage — T. E. Boven, judge Panola Co., clearing, grubbing, bridging and grading 6.47 mi. State Highway 8, from Carthage to Martins Creek Co., to C. Epps, P. O. Box 505, San Augustine, $59,159. Engrs. est. $68,700. Noted Mar. 25.

Tex., Eagle Lake—Office of R. T. Westmoreland, mayor, curbing, guttering and 6 in. concrete paving Main St. and around square, to Smith & Adams, Houston, $26,786. Noted Feb. 25.

Tex., Linden—F. E. Hess, engr., Linden, grubbing, bridging and grading 5.64 mi. State Highway 8, Federal Aid Project 457-A, 26 ft., to B. Price & Co., Paris, $59,782. Engrs. est. $60,000. Noted Mar. 25.

Oklahoma—State Hy. Dept., Oklahoma City, **(S. A. P. means State Aid Project, F. A. P. means Federal Aid Project, and e. e. means engineers estimate)**, to Hamilton Constr. Co., Bartlesville, grading, etc., 8.06 mi. Stroud-Bristow Rd., F. A. P. 136-A, Creek Co. $29,116 e. e. $31,000, 6.06 mi. same road Sect. B, $26,730 e. e. $28,800, to Ledford & Way, Walters, 2.989 mi. Snyder-Mountain Park Rd., S. A. P. 224-B, Kiowa Co., $16,820 e. e. $25,000, 5.21 mi. Walters Rd., S. A. P. 109, Cotton Co., $14,573 e. e. $25,000, to Maney Bros., Empire Bldg., Oklahoma City, 10.055 mi. Hobart-Lone Wolf Rd., S. A. P. 227-B, C and D, Kiowa Co., $19,304 e. e. $25,000, 7 mi. Elk City-Sayre Rd., F. A. P. 212-C, Beckham Co., $32,229 e. e. $35,000, to Biggs & Biggs, Hobart, 7.897 mi. Hobart-Goteba Rd., S. A. P. 226-A and B, Kiowa Co., $19,842 e. e. $25,000, to W. P. McCoy & Son, Perry, 3.943 mi. Tonkawa-Three Sands Rd., S. A. P. 280, Kay Co., $19,058 e. e. $25,000, to T. C. Ottinger, Hinton, 6.997 mi. Tonkawa-Ponca City Rd., S. A. P. 111-B, Kay Co., $19,636 e. e. $25,000, to M. A. Swatek, Security Bldg., Oklahoma City, 7.536 mi. Elk City-Sayre Rd., F. A. P. 212-B, Beckham Co., $31,416 e. e. $35,000, to E. Smittle, Catoosa, 4.681 mi. Poteau-Heavener Rd., F. A. P. 132-B, Le Flore Co., $28,790 e. e. $30,000, to J. J. Harrison, 2100 South High St., Oklahoma City, 5.11 mi. Poteau-Heavener Rd., F. A. P. 132-A, Le Flore Co., $33,323 e. e. $35,000, to Ellis & Lewis, Muskogee, 5.146 mi. Talala Rd., S. A. P. 2-G, Rogers Co., $22,831 e. e. $25,000, all above 30 ft. wide; to Flynn Constr. Co., Newkirk, grading and concrete surfacing 2.807 mi. Yukon Rd., 30 ft., F. A. P. 163-B, Canadian Co., $68,803 e. e. $75,000, concrete surfacing 7.099 mi. Beggs Rd., 18 ft., F. A. P. 159-A, Okmulgee Co., $147,688 e. e. $160,000, and 4.054 mi. Pond Creek Rd., 18 ft., F. A. P. 148-D, Grant Co. $91,726 e. e. $100,000, to Ward, Beekman & Brooks, Security Bldg., Oklahoma City, 3.271 mi. Commerce-Pitcher Rd., 18 ft., F. A. P. 105-C, Ottawa Co., $73,862 e. e. $80,000, to Hansen & Pearce, Edmond, 3 mi. Pond Creek Rd., 18 ft., F. A. P. 148-C, Grant Co. $60,742 e. e. $75,000; to M. E. Gilloiz, Monett, Mo., gravel top surfacing 5.238 mi. F. A. P. 193-D, 30 ft., Nowota Co., $22,3[illegible] $27,000; to Park & Moran, 210 South Bldg., Okmulgee, rock asphalt surfacing 5.218 mi. Henryetta Rd., 18 ft., F. A. P. 168-A, Okmulgee Co., $149,715 e. e. $160,000. Grand total $937,593. Noted Mar. 11.

Okla., Drumright — Grading and vitr. brick paving 6,360 sq.yd. streets in Dist. 4 to Klinglesmith Constr. Co., Sapulpa, $32,906. Engrs. est. $35,410.

Okla., Okemah — Grading, curbing and concrete paving 8,560 sq.yd. South 2nd St. to Park & Moran, 210 South Seminole Bldg., Okmulgee, $26,446. Engrs. est. $28,[illegible]

Okla., Ponca City—For 2½ in. vitr. brick paving various streets in Paving Dist. 58, to R. H. Baldwin, Ponca City, $27,2[illegible]

Nev., Reno—J. B. Reese, city clk., concrete paving, etc., various streets, to I. Christensen, 109 Sierra St., $59,945.

Washington—State Hy. Dept., Olympia, concrete paving 43,000 sq.yd. State Rd. 2, Lincoln Co., 1.71 mi. road from Spokane-west, Spokane Co., to T. M. Morgan, 708 Stuart Bldg., Seattle and $133,204, 0.31 mi. State Rd. 12, Lewis Co., to E. O. Allers, Chehalis $10,878; crushed gravel surfacing 8,800 cu.yd. State Rd. 11, Adams Co., to Joslin & McAllister, P. O. Box 1286, Spokane $6,336, 8,500 cu.yd. State Rd. 4, Okanogan Co., to Triangle Constr. Co., 1220 Ide Ave., Spokane $63,811; and grading, etc. 60,000 cu.yd. State Rd. 8, to Morrison-Knudson & Co., Boise, Idaho, $47,990. Grand total $262,219. Noted Mar. 4.

Wash., Seattle — Grading, concrete paving, etc., 30,180 sq.yd. Midvale Ave. et al. to R. G. Stevenson, 1327 Northlake Ave., $93,843, engrs. est. $97,759; and 20,160 sq.yd. Aurora Ave. et al, to McHugh & Coluccio, 517 3rd Ave. N., $56,396, engrs. est. $58,550. Noted Mar. 25.

Wash., Wenatchee — Comrs. Chelan Co., grading and crushed rcok surfacing 25,840 cu.yd. Wenatchee-Malaga Rd., to Goodfellow Bros., Wenatchee, $37,582.

Calif., Los Angeles — Curbing, walks, storm drains and 6 in. concrete paving Whitmore Ave. and Alvarado St., to Brockman & O'Brien, 1566 Murray Circle $34,706; also cutting, filling, storm drains, asphaltic and concrete paving, etc. 2nd and Mesa Sts., to G. H. Oswald, 366 East 58th St., $46,066. Noted Feb. 25 and Mar. 18.

Calif., Ontario—To Griffith Co., Ry. Bldg., Los Angeles, improving State St., 120,000 sq.ft. 4 in. asphaltic concrete paving $0.12 per sq.ft., 12,000 r.w. headers $0.10, etc. Noted Mar. 25.

Calif., San Diego — Common Council, improving 26th St. from N St. to Balboa Park, to D. H. Ryan, Spreckels Bldg., $39,861. Noted Mar. 25.

Calif., San Diego — Bd. Supervs. San Diego Co., improving all streets in Kensington Heights (suburban section), 9,278 lin. ft. cement curbing, 35,902 sq.ft. cement sidewalk, 19,059 cu.yd. earth excav., 4,730 ft. 4 and 6 in. mains, ornamental lighting system, etc., to D. H. Ryan, 1615 Fern St., $64,376.

Calif., San Leandro—Curbing, guttering, walks and 3 in. oil and screenings on water-bound macadam surfacing, etc., streets in Best sub-division, to Heafey-Moore-McNair, 344 High St., Oakland, approximately $75,000.

Calif., Winters—Grading, curbing, guttering 1½ in. Willite asphaltic concrete on 2½ in. asphaltic concrete paving, Railroad and Main Sts., to Teichert & Sons, 1846 37th St., Sacramento, approximately $30,000. Noted Mar. 18.

Ontario — Provincial Highways Dept., Toronto, 5 mi. highway from Marden to Fergus, to McArthur Eng. & Constr. Co., Guelph. Engrs. est. $100,000.

Buildings—Commercial

Proposed Work

Mass., Amherst — THEATRE — Lawler Bros., Federal St., Greenfield, soon lets contract 2 story and basement, brick and steel, Amity and Pleasant Sts. $150,000. Silverman, Brown & Heenan, 51 Cornhill St., Boston, archts.

Conn., Bristol—WAREHOUSE, etc.—E. Ingraham Co., 392 North Main St., soon takes bids 5 story, 80 x 125 ft., timber warehouse, 1 story addition to buffing and plating department, etc., North Main St.

N. Y., Brooklyn—HOSPITAL—Lutheran Hospital, East New York Ave., having plans prepared by R. Resler, engr. and archt., 41 East 42nd St., New York City, brick, steel and stone addition and power

Buildings—Commercial (Continued)

house, plain foundation, East New York Ave., $700,000. Noted June 4.

N. Y., Brooklyn—HOSPITAL—Hospital of Holy Family, c/o J. Brophy, pastor, 283 Hicks St., having plans prepared by Crow, Lewis & Wick, engrs. and archts., 200 5th Ave., New York City, 6 story, 100 x 150 ft., brick, steel and stone, plain foundation, Dean St.

N. Y., Brooklyn—HOSPITAL—St. Johns Hospital, Atlantic Ave., having plans prepared by Lord & Hewlett, engrs. and archts., 2 West 45th St., 5 story, brick, steel and stone, plain foundation, Atlantic and Albany Aves. $1,500,000.

N. Y., Buffalo — CLUBHOUSE — Buffalo Federation Womens Clubs, c/o Plumer & Mann, Inc., archts., 700 Main St., having preliminary plans prepared 7 story clubhouse, with swimming pool and heating plant. $1,000,000. Noted Feb. 19, 1925.

N. Y., Buffalo — HOSPITAL — Buffalo Shriners, Buffalo Consistory, Delaware Ave., plans childrens hospital. $1,000,000.

N. Y., Buffalo—THEATRE—Hager, Askey & Forrest, 1325 Hertel Ave., having preliminary plans prepared theatre, Main St. $150,000. Private plans.

N. Y., Buffalo—Y. M. C. A., 347 Madison Ave., New York City, soon takes bids Y. M. C. A. building, Abbott Rd., here. $150,000. Bley & Lyman, 505 Delaware Bldg., engrs. and archts. Noted Feb. 18.

N. Y., New York — CLUB HOUSE — United Order of True Sisters, c/o Block & Hesse, engrs. and archts., 18 East 41st St., soon takes bids 4 story, brick, steel and stone, plain foundation, 150 West 85th St. Noted Jan. 28.

N. Y., New York — GARAGE — Yellow Taxi Co., 155 East 44th St., having preliminary plans prepared by Hyde & Shepard, engrs. and archts., 588 Lexington Ave., 6 story, rein.-con., brick and steel, plain foundation, East 23rd St. $500,000.

N. Y., New York—HOTEL—A. Adelberg, 333 7th Ave., having plans prepared by Schwartz & Gross, archts., 347 5th Ave., 15 story, brick, steel and stone, plain foundation, Lexington Ave. $1,500,000. Ball & Snyder, 505 5th Ave., engrs.

N. Y., New York—LOFT—R. R. Tille, c/o Dennison & Hirons, engrs. and archts., 288 Lexington Ave., having plans prepared brick, steel and stone, plain foundation, 156 East 56th St. $500,000.

N. Y., New York—LOFT and OFFICE—Owner, c/o Necarsulmer & Lehlback, engrs. and archts., 507 5th Ave., having plans prepared 16 story, brick, steel and stone, plain foundation, Lexington Ave. and 26th St.

N. J., Gloucester—SCHOOL—Bd. Educ., J. McHenry, secy., plans school, Cumberland St. $271,000. Engineer and architect not selected.

N. J. Salem—BANK—T. E. Ash, archt., 1612 Walnut St., Phila., Pa., soon lets contract rein.-con., brick and steel, plain foundation, here, for Salem Natl. Bank & Trust Co.

Pa., Phila.—HOTEL—Owner, c/o W. L. Charr, archts., Victory Bldg., having plans prepared 5 story and basement, 55 x 235 ft., rein.-con., brick and steel, plain foundation, 915-17 Walnut St. $400,000.

N. C., Morehead City—HOTEL—Morehead Bluffs Hotel Co. soon takes bids 100 room hotel. Benton & Benton, Wilson, archts.

Fla., Coral Gables—HOTEL, etc.—Coral Gables Rest Resort Corp. having plans prepared by J. E. O. Pridmore, 38 South Dearborn St., Chicago, Ill., and takes bids about Apr. 22, 6 story rest resort, 1,000 room hotel with two 9 story towers, 432 x 500 ft., incl. swimming pool, 3 story, 60 x 130 ft. service building, dock and driveways, etc., in Riviera section. $10,000,000.

Fla., Miami — THEATRE — M. Speigel, dir. chain of Strand Theaters, 1579 Bway., New York City, N. Y., had plans prepared by M. L. Hampton, Royal Palm Hotel Bldg., 100 x 150 ft., Northeast 2nd Ave. and 22nd St., here, for Miramar Strand Theatre Corp., 914 Olympia Bldg. $300,000.

Alabama — HOSPITAL — Cities of Tuscumbia and Sheffield plan election soon $150,000 bonds, hospital, used jointly by both cities.

La., New Orleans—HOTEL—Syndicate, c/o E. L. Aschaffenburg, pres., had plans prepared by Weiss & Dreyfous, Maison Blanche Bldg., Hotel Pontchartrain, 12 story, 102 x 120 ft., St. Charles Ave. and Josephine St. $1,000,000.

O., Cleveland—APARTMENT HOTEL—N. Staman, 2872 Hampshire Rd., having preliminary plans prepared by M. Altschuld, 5116 Woodland Ave., 3 story and basement, 38 x 210 ft., brick, East 79th St. near Euclid Ave. $225,000.

O., Cleveland — COMMERCIAL and APARTMENT — Wallace-Carnegie Co. Impvt. Co., c/o J. T. Steffens, Fidelity Mortgage Bldg., having preliminary plans prepared 3 story and basement, 113 x 130 ft., brick, East 83rd St. and Carnegie Ave. $150,000.

Ind., Indianapolis—THEATRE—Circle Theatre Co., A. L. Block, pres., 45 Monument Pl., having plans prepared by Rubush & Hunter, 430 Amer. Central Life Bldg., 126 x 195 ft., 4,000 seating capacity, 128-142 West Washington St. $1,000,000.

Mich., Detroit — BANK and OFFICE — Book Estate, Book Bldg., soon lets general contract 22 story and basement, 60 x 100 ft., rein.-con., brick and steel, Washington Blvd.; structural steel, to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa. L. Kamper, Kamper Bldg., Cass Ave., archt.

Mich., Detroit — HOTEL — Detroit Properties Co., E. A. Loveley, Washington Blvd. Bldg., had plans prepared by C. W. and G. L. Rapp, 1749 Howard St., Chicago, Ill., 20 story and basement, rein.-con., brick and steel, caisson foundation, Bagley Ave. $6,500,000.

Ill., Chicago—APARTMENT—Childs & Smith, archts., 720 North Michigan Ave., preparing plans and soon takes bids 18 story, 72 x 164 ft., brick, steel and stone, Lake Shore Dr. and Burton Pl., for Baird & Warner, 134 South La Salle St. $2,000,000.

Ill., Chicago — APARTMENT — Oman & Lilienthal, archts., 64 West Randolph St., preparing plans and takes bids about May 1, 17 story, 57 x 120 ft., rein.-con., brick, stone and terra cotta, wood pile foundation, 2130-32 Lincoln Park W., for Syndicate, c/o architects. $1,300,000.

Ill., Chicago—HOTEL—Harvey & Dammarell, 628 West Madison St., having preliminary sketches made by A. S. Alschuler, 28 East Jackson Blvd., 12 story, 110 x 137½ ft., rein.-con. and steel, West Madison and Desplaines Sts. $1,000,000.

Ill., Chicago — OFFICE and STORE — H. L. Newhouse, archt., 4623 Drexel Ave., making plans and takes bids in April or May, 7 story, 103 x 125 ft., rein.-con., brick and terra cotta, West Madison St. and Crawford Ave., for C. F. Aaron, 139 North Clark St. $1,000,000.

Ill., Chicago—THEATRE, STORE and APARTMENT—Z. E. Smith, archt., 305 East 55th St., preparing plans and takes bids about Apr. 22, 3 story, 125 x 195 ft., brick and terra cotta, Irving Park Blvd. and Central Ave., for O'Conner, Burke & McDonnell, 748 East 79th St. $1,250,000.

Ill., Peoria—MEDICAL and DENTAL—Dental Assn. and Medical Society, J. C. Roberts, chn., com., 507 Jeff Bldg., having plans prepared by B. L. Hulsebus, 1232 Jeff Bldg., 10 story and basement, 60 x 170 ft. medical and dental building. $400,000. Engineer not selected.

Ia., Muscatine—SCHOOLS—Voted $275,000 bonds for brick and concrete schools, for Bd. Educ., c/o H. Ahlschlager, Dougher, Rich & Woodburn, 805 Valley Natl. Bank Bldg., Des Moines, archts.

Neb., Grand Island — THEATRE — Yancy Hotel soon lets contract 1 story and mezzanine, 66 x 132 ft., brick, steel, and terra cotta, 2nd St. between Pine and Locust Sts. $200,000. J. Eberson, 212 East Superior St., Chicago, Ill., archt.

Mo., St. Louis — HOSPITAL — Lutheran Hospital, Ohio and Potomac Sts., and T. Steinmeyer, archt., 710 International Life Bldg., take bids about Apr. 18, 4 story and basement, 40 x 100 ft., brick, concrete and stone addition. $275,000. Noted Mar. 25.

Tex., Brownsville—AUDITORIUM—Election soon, $160,000 bonds, 3,000 capacity auditorium. Engineer and architect not selected.

Tex., San Antonio—EXPOSITION—San Antonio International Exposition, c/o A. Steves, Sr., chn. building com., 504 King William St., receiving plans exposition buildings and race track. $200,000.

Tex., San Antonio—HOTEL and HOTEL APARTMENT — H. C. Thorman & associates, 125 East Travis St., plans three 12 story and basement, rein.-con., brick and tile, plain foundations, Devine and Robinson Rds., Alama Heights. $2,000,000. Engineer and architect selected soon.

Tex., Texarkana — DEPOT — Missouri-Pacific R. R. Co., Ry. Exch. Bldg., St. Louis, Mo., Southwestern Ry. Co., Tyler, Tex., and Kansas City Southern R. R. Co., Texarkana, having plans prepared 1 and 2 story, rein.-con., brick and steel station, plain foundation, incl. 6 tracks, sheds and mail handling building. $2,000,000. Private plans. Noted Oct. 2, 1924.

Wash., Bellingham — STORE, OFFICE and THEATRE — Bellingham Development Co., T. D. Stimson, mgr., White Bldg., Seattle, purchased site and plans store, office and shops, incl. theatre, 2,000 seating capacity. $2,000,000.

Wash., Seattle—OFFICE and STORE—F. K. Struve, Stuart Bldg., purchased site and plans store and office building, 6th and Olive Sts. $1,000,000.

Calif., Beverly Hills — CLUB, etc. — Beverly Hills Sulphur Baths Co. having plans prepared by B. J. Bloser, Citizens Natl. Bank Bldg., Los Angeles, part 1 and 2 story, 100 x 190 ft., brick, incl. 75 x 175 ft. concrete and tile swimming pool.

Calif., Oakland — APARTMENT — O. Kehrlein, Tribune Tower Bldg., having plans prepared by Miller & Warnecke, 1404 Franklin St., 20 story, Lakeshore Blvd. and Madison St. $1,000,000.

Calif., Sacramento—WAREHOUSE and SERVICE—Pacific Gas & Electric Co., 245 Market St., San Francisco, having plans prepared brick or concrete, M St. $150,000. Eng. Dept. of Owners, engrs.

Calif., Sanger—HIGH SCHOOL—Sanger Union High School Dist. plans election $270,000 bonds, fireproof high school. Noted Mar. 25.

Calif., San Francisco — THEATRE — Orpheum Theatre Co., 147 O'Farrell St., having preliminary plans prepared by G. A. Lansburgh, 140 Montgomery St., theatre. $1,000,000 or more.

Calif., Watsonville — HOTEL — W. H. Weeks, archt., 369 Pine St., San Francisco, rejected bids 5 story and basement, rein.-con., Lake and Main Sts., for Resetar Bros. $250,000.

Man., Winnipeg—GARAGE—T. Eaton Co. Ltd., 190 Yonge St., Toronto, Ont., soon lets contract 4 story and basement, 100 x 120 ft., rein.-con., and brick, 255-257 Carlton St. $170,000. J. Woodman, 408 Great West Permanent Loan Bldg., archt. Noted Mar. 4.

Bids Desired

Mass., Boston—HOTEL—J. R. Whipple Corp., Federal St., taking bids 15 story and basement, 90 x 170 ft., and 42 x 100 ft., rein.-con., brick, limestone, marble and steel, plain foundation, Tremont and School Sts. $3,000,000. J. R. Worcester Co., 79 Milk St., engr. Desmond & Lord, 1 Beacon St., archts. Noted Oct. 22.

Mass., Dorchester (Boston P. O.) — APARTMENT—See "Contracts Awarded."

Mass., Quincy (Boston P. O.)—TEMPLE—Apr. 5, by Quincy Masonic Lodge Building Assn., 2 story and basement, 80 x 125 ft., brick and steel, Hancock St. $150,000. J. W. Beal & Sons, 185 Devonshire St., Boston, archts. Noted Oct. 22.

Conn., Middletown—APARTMENT—P. J. Stueck, 460 Main St., taking bids 4 story, brick and steel, Main and Washington Sts. Ward & Kerrigan, 247 Park Ave., New York City, engrs. and archts.

Conn., New Haven—BANK and APARTMENT—G. Franco & Son, 127 Columbus Ave., taking bids 4 story, 62 x 65 ft., brick, steel and stone bank and apartment. $150,000. H. S. Cannici, 82 Church St., archt.

Conn., West Haven (br. New Haven)—THEATRE — State Amusement Co., 195 George St., New Haven, taking bids 2 story, brick and steel, Center St. and Campbell Ave. $200,000. C. H. Abramowitz, 42 Church St., New Haven, archt.

N. Y., Astoria (sta. Long Island City), **N. Y.** — APARTMENT — See "Contracts Awarded."

N. Y., Mt. Vernon—OFFICE—Apr. 8, by Westchester Lighting Co., South 1st Ave., F. A. Stratton, pres., 10 story, brick, steel and stone, plain foundation, 1st Ave. $1,000,000. B. S. King, 19 East 41st St., New York City, engr. and archt. Noted Mar. 4.

N. Y., New York—APARTMENT—See "Contracts Awarded."

Pa., Phila.—THEATRE—Apr. 2, by Boyd Abel & Gugert, archts., Otis Bldg., 1 story and basement, 60 x 195 ft. ,rein.-con., brick and steel, plain foundation, Ogontz Ave. and Chelten St., for Goldman Bros., Greene and Chelten Sts. $150,000.

Pa., Upper Darby (br. Phila.)—HOSPITAL—Apr. 7, by Delaware Co. Hospital Building Comn., Ashby and Copley Rds., Stonehurst, 3 story and basement, 48 x 110 ft., rein.-con. and brick, plain foundation, Lansdowne Ave. and Garrett Rd., here. $150,000. Ballinger & Co., 12th and Chestnut St., archts.

D. C., Wash.—OFFICE—Apr. 12, by O. H. Miller, archt., McLachlen Bank Bldg., 8 story, 50 x 100 ft., rein.-con., steel and stone, 10th and K Sts. N. W., for United Brotherhood of Carpenters & Joiners of America, Local 132, C. H. Adams, 3400 Eastern Ave., Mt. Rainer, Md., chn. building com. Noted Mar. 11.

Ala., Birmingham—HOTEL—May 1, by Jefferson Hotel Co., 19 story, 100 x 140 ft., rein.-con., 17th St. and 2nd Ave. $1,500,000. Warren, Knight & Davis, Empire Bldg., archts.

Ind., Evansville — WAREHOUSE — Standard Oil Co. of Indiana, 2320 Division St., taking bids brick and steel warehouse, incl. machine shop, garage, etc. $200,000.

Buildings—Commercial (Continued)

Schlinz & Bailey, 53 West Jackson St., Chicago, Ill., archts.

Ind., Hammond—THEATRE—N. Kristhoff, 556 Morton Ave., taking bids brick and steel theatre and office, Columbia and Morton Sts. $250,000. Broughton & Phillips, Hammond, archts.

Ill., Chicago—APARTMENT—See "Contracts Awarded."

Mo., St. Louis — RECREATION — See "Contracts Awarded."

Tex., San Antonio — COURTHOUSE — Apr. 16, by Phelps & De Wees, engrs. and archts., Gunter Bldg., and E. T. Jackson & G. Willis, archts., c/o Builders Exch. Bldg., remodeling and 5 story and basement, 90 x 160 ft., rein.-con., brick, tile and stone annex, plain foundation. Main Plaza, for Bexar Co. $1,000,000. Noted Feb. 25.

Okla., Ponca City—OFFICE—Apr. 8, by W. H. McFadden, vice pres. Marland Oil Co., two 8 story and basement, 80 x 100 ft., rein.-con. and brick wings, plain foundation. $350,000. V. T. Moon, Ponca City, archt. L. C. Harmon, Ponca City, engr. Noted Jan. 21.

Calif., Eagle Rock — HOME — Southern California Home for Aged Women, taking bids two 38 x 112 ft. and one 34 x 112 ft. buildings, each 3 story, rein.-con., 2235 Norwalk St. $200,000. A. G. Bailery, 410 Hillstreet Bldg., Los Angeles, archt.

Ont., St. Catharines—HOSPITAL—Apr. 7, by Nicholson & MacBeth, 46 Queen St., 2 and 3 story and basement, rein.-con., brick and steel, plain foundation, for St. Catharines General Hospital Bd. $150,000.

Bids Received

Mich., Pontiac—HOSPITAL—W. Brewer, secy. Building Com., Oakland Co., general contract 3 story and basement, rein.-con., brick and steel in Waterford Twp., from Spence Bros., Saginaw. $299,944; steam heating boiler and equipment, from C. E. Ream, Royal Oak, $65,500. Noted Mar. 4.

Wash., Tacoma—TEMPLE—A. J. Russell, archt., Bankers Trust Bldg., Mar. 5, 5 story, 121 x 134 ft. with 1 story, 25 x 86 ft. wing, rein.-con., steel and stone, from M. Hoard & Co., Pantages Bldg., Seattle, for Masonic Lodge, 743 Market St. $332,395.

Calif., Alhambra — HOTEL, APARTMENT and STORE — T. Starrett, Detwiler Bldg., Los Angeles, 5 story and basement, 90 x 170 ft., rein.-con., Garfield Ave. and 1st St., from Westcott & Co., 710 South Garfield Ave., to exceed $150,000. Noted Feb. 25.

Calif., Los Angeles — THEATRE and OFFICE — W. H. Fisher, Union Oil Bldg., 2 story and basement, 35 x 140 ft. office section, and 135 x 162 ft. theatre section, 2,000 seating capacity, steel, brick and rein.-con., Wilshire Blvd. and Sycamore St., from J. P. Steele, 1593 Western Ave., to exceed $150,000.

Contracts Awarded

Mass., Boston—HOTEL and STORE—E. N. Wyner, 18 Tremont St., 15 story and basement, 90 x 136 ft., rein.-con., brick and steel, to Chase & Gilbert, 220 Devonshire St. Archts. est. $2,000,000. Noted Aug. 6.

Mass., Dorchester (Boston P. O.) — APARTMENT — Modern Constr. Co., 75 Mora St., will build 3 story and basement, 115 x 135 ft., brick and stone, plain foundation, Walnut Ave. and Homestead St. $175,000. Work will be done by separate contracts. M. E. Levy, 7 Water St., Boston, archt.

Conn., New Haven—STORE and OFFICE—H. M. Bullard Co., 91 Orange St., 6 story, 106 x 189 ft., brick, steel and concrete, Orange and Elm Sts., to C. W. Murdock, 505 Grand Ave. Archts. est. to exceed $150,000.

N. Y., Astoria (sta. Long Island City), **N. Y.** — APARTMENT — Boaa Realty & Constr. Corp., c/o Gronenberg & Leuchtag, engrs. and archts., Bricken Bldg., Bway. and 38th St., New York City, will build brick, steel and stone, plain foundation, Pierce Ave., here, by day labor. $500,000.

N. Y., New York — APARTMENT — S. Rosenberg Corp., c/o Gronenberg & Leuchtag, engrs. and archts., Bricken Bldg., Bway. and 38th St., will build 15 story, brick, steel and stone, plain foundation, East 81st St. Work will be done by separate contracts.

N. Y., New York — HOSPITAL — St. Elizabeths Hospital, 415 West 51st St., 6 story, 120 x 200 ft., brick, steel and stone, plain foundation, Fort Washington Ave., to J. A. Meenan, Inc., 153 West 72nd St. Archts. est. $800,000. Noted Mar. 4.

Pa., Phila.—STORE—J. G. McCrory, 1107 Bway., New York City, 8 story and basement, 50 x 125 ft., 919-23 Market St., to Hughes Foulkrod Co., Commonwealth Bldg. Archts. est. $350,000.

N. C., Highlands—See "Buildings—Industrial."

Fla., Bartow — COURTHOUSE — Constructing courthouse addition, to P. H. Smith, Haines City, $179,750.

O., Cleveland — APARTMENT — Cedar-Glen Co., 1032 Schofield Bldg., 3 and 5 story, rein.-con., brick and steel, Cedar and Ambleside Rds., to Tater & Arons, 1004 Linn Dr. archts. est. $450,000.

Ill., Chicago—APARTMENT—Owner, c/o F. Stanton, archt., 310 South Michigan Ave., will build 3 story and basement, 50 x 135 ft., brick, steel and stone, 6244-46 Winthrop Ave., by day labor. $160,000.

Ill., Chicago—APARTMENT—J. J. Hensen, archt., 1105 Lawrence Ave., masonry and carpentry contract 5 story and basement, 60 x 147 ft., rein.-con. and brick, 5326-28 Winthrop Ave., to Erickson & Magnuson, 4753 Bway., for Winthrop Building Corp., c/o architect. Noted Mar. 4.

Ill., Chicago — HOTEL — R. C. Harris, archt., 190 North State St., masonry and carpentry contract 16 story, 50 x 100 ft., brick and stone, 17-19 East Ohio St., to Seipp & Lonergan, 179 West Washington St., concrete piles, to Walsh & Masterson, 307 North Michigan Ave., for A. Strunk of Hotel Antonette Corp., 69 Bellevue Pl. Archts. est. $725,000. Noted Jan. 21.

Ill., Chicago—HOTEL—W. A. Morrow & Co., archts., 6 North Michigan Ave., general contract 16 story, 54 x 175 ft., rein.-con., brick and stone, 4238-40 Bway., to Krahl Constr. Co., 350 North Clark St., for C. H. Sundberg, Westminster Blvd. Archts. est. $400,000. Noted Dec. 10.

Ill., Chicago—HOTEL—A. H. Quitsow, archt., masonry and concrete contract 6 story and basement, 48 x 109 ft., rein.-con. and brick, Lincoln Ave. near Ogden Ave., to H. Janisch & Co., 1813 Winona St., for Schoenlank & Kirschner, 4753 Bway. Archts. est. $250,000. Noted Feb. 4.

Ill., Chicago — OFFICE — Holabird & Roche, archts., 104 South Michigan Ave., general contract 21 story and basement with 15 story tower, 40 x 90 ft., brick, steel and stone addition to Roanoke Building, 129 West Madison St., to Dahl-Stedman Co., 11 South La Salle St., for Roanoke Building Corp., 129 West Madison St. Archts. est. $3,000,000. Noted Jan. 14.

Ill., Evanston—THEATRE, STORE and OFFICE—J. E. O. Pridmore, archt., 38 South Dearborn St., Chicago, carpentry, masonry and concrete contract 2 story and basement, 80 x 195 ft., rein.-con., brick and stone, Sherman Ave. and Church St., here, to Broline-Nolan Co., 5 North La Salle St., Chicago, for University Theatre Corp. Archts. est. $400,000. Noted Nov. 12.

Ill., Joliet—HOTEL—Oliver Hotel Co., W. H. Oliver, pres., 3 story and basement, 118 x 124 ft., rein.-con., brick and terra cotta, Richards and Lincoln Sts., to Hansen & Petersen Constr. Co., Des Plaines and Allen Sts. Archts. est. $150,000.

Ill., La Grange — APARTMENT — A. D. Dallach, 136 South Spring Ave., carpentry contract 3 story and basement, 145 x 150 ft., concrete, tile, brick and stone, 6th Ave., to Olson Bros., 6501 Euclid Ave., Chicago; masonry and concrete work, to A. T. Herlin, 6117 Evans Ave.; structural steel, to Horn Structural Iron Wks., Chicago.

Mo., St. Louis—RECREATION—Freund Brothers, Cherokee and Iowa Aves., will build 3 story and basement, 125 x 153 ft., brick, concrete and stone, Cherokee and Iowa Aves., by day labor, under supervision of Wedmeyer & Nelson, archts., Wainright Bldg. $200,000. Noted Jan. 7.

Calif., Los Angeles—CLUB—Egyptian Salt Water Swimming Club, c/o A. G. Lindley, archt., Amer. Bank Bldg., 2 story, 162 x 300 ft. club, incl. 60 x 150 ft., rein.-con. swimming pool, etc., to J. C. Bannister, 6331 Hollywood Blvd., $200,000 or more.

Calif., San Francisco—OFFICE—E. H. Rollins & Sons, and S. W. Coleman, 315 Montgomery St., 30 story, double basement for garage, steel, Montgomery St. from Bush to Pine Sts., to Dinwiddie Constr. Co., Crocker Bldg., $6,500,000.

Buildings—Industrial

Proposed Work

Conn., Bridgeport—BRASS FACTORY—Bassick Co., 38 Austin St., soon lets contract 1 and 2 story, 100 x 120 ft., rein.-con., brick and steel, Austin and Warren Sts. $65,000. Fletcher Thompson, Inc., 542 Fairfield Ave., archts.

N. Y., Buffalo — BOX FACTORY — Plumer & Mann, Inc., archts., 700 Main St., preparing plans and takes bids about Apr. 1, box factory, Seneca St., for Box Factory, Seneca and Hamburg Sts. $[illegible]

N. Y., Elmira—POWER PLANT—United Gas & Electric Co., 111 Bway., New York City, having preliminary plans prepared rein.-con., brick and steel, plain foundation, here. $1,500,000. Private plans.

N. Y., New York—PLANT—New York Wagon Co., Inc., 143 West 51st St., plans rein.-con., brick and steel addition, plain foundation, West 51st St. $150,000. Engineer and architect not selected.

N. Y., Niagara Falls — FOUNDRY and MACHINE SHOP—Dobie Fdry. & Machine Co. plans foundry and machine shop addition. $60,000.

N. J., Roselle—PLANT—Rapid Addressing Machine Co., 46 West 43rd St., New York City, soon takes bids rein.-con., brick and steel, caisson foundation, here. $[illegible] 000. Ballinger Co., 100 East 42nd St., New York City, engrs. and archts.

Pa., Phila.—PLANT—Glove & Dye Wks., D. R. Greenwood, pres., plans 4 story and basement, rein.-con. and brick, plain foundation, Worth and Kinsey Sts. Stearns & Woodnutt, St. Girard Bldg., archts.

Pa., Phila.—MANUFACTURING PLANT—Phila. Storage & Battery Co., C and Ontario Sts., soon takes bids 3 story and basement, 54 x 250 ft., rein.-con. and brick addition, plain foundation, C and Ontario Sts. Private plans.

Tenn., Chattanooga—PLANT—U. S. Cast Iron Pipe & Fdry. Co., 71 Bway., New York City, having preliminary plans prepared rein.-con., brick and steel plant, plain foundation, here. $3,000,000. Private plans, archts. Noted Feb. 18.

O., Cleveland—FACTORY—Arco Co., S. D. Wise, pres., 6408 Euclid Ave., having plans prepared by Lockwood, Greene & Co., Hanna Bldg., 4 story and basement, 80 x 80 ft., brick and steel, East 79th St. and Bessemer Ave. $65,000.

O., Cleveland — FACTORY — Republic Brass Co., J. Pollock, secy., 1623 East 45th St., had plans prepared by Christian, Schwarzenburg & Gaede, 1900 Euclid Bldg., 1 story, 60 x 60 ft., brick and steel addition. $40,000.

O., Cleveland — FACTORY—Rickersberg Brass Co., E. Rickersberg, pres., East 37th St. and Perkins Ave. purchased site and having plans prepared by Christian, Schwarzenberg & Gaede, archts. and engrs., 1900 Euclid Bldg., 60,000 sq.ft. floor space, brick, steel and concrete, Kelley Ave.

O., Cleveland—STEEL MILL—Otis Steel Co., L. C. Pratt, purch. agt., 3341 Jennings Rd., plans 1 story, 30 x 56 ft., steel addition. $40,000. W. F. Hilditch, 3341 Jennings Rd., engr.

Ill., Chicago—FACTORY—Rayner Lithographing Co., 2054 West Lake St., having plans prepared by Weiss & Niestadt, Monadnock Bldg., 3 story and basement, 155 x 165 ft., rein.-con. and terra cotta, West Lake St. and Central Park Ave. $300,000.

Okla., Collinsville — POWER PLANT — City defeated $81,000 bonds, power plant and electric light improvements. B. Herdenfelder, city clk. Noted Mar. 11 under "Waterworks."

Bids Desired

Mass., Arlington (br. Boston) — DYE PLANT—Arlington Dye Wks., Inc., 411 Highland Ave., Somerville, taking bids (2 buildings), 2 story, 50 x 100 ft., brick and timber plant. $40,000. Private plans. Noted Nov. 26.

Mass., Attleboro—FACTORY—See "Contracts Awarded."

Mass., Roxbury (Boston P. O.)—SHOP—Owner, c/o A. D. Boyle, archt., 27 School St., Boston, taking bids 1 and 2 story, 50 x 100 ft., brick, 1700 Columbus Ave. $40,000.

Mass., Somerville (Boston P. O.)—FACTORY—Bailie Basket Co., 165 Federal St., taking bids 2 story and basement, 50 x 100 ft., brick and steel addition, plain foundation, 165 Beacon St. $65,000. E. R. Simpson, 176 Federal St., Boston, archt.

R. I., East Greenwich—MILL—Apr. 6, by Greenwich Mills, Division St., brick addition. To exceed $40,000. C. T. Main, 200 Devonshire St., Boston, archt.

N. C., Highlands—HYDRO-ELECTRIC PLANT—Apr. 14, by J. R. Smith, mayor, and Bd. Aldermen, hydro-electric plant, incl. concrete arch dam, 15 x 23 ft. power house, 2 sub-stations, and 2 mi. transmission line, etc. W. H. Booker, Charlotte, consult. engr.

Miss., Meridian — CREAMERY — See "Contracts Awarded."

Ia., Mason City—POWER PLANT—See "Contracts Awarded."

Minn., St. Paul — FACTORY and MACHINE SHOP—Auto Engine Wks., Inc., 1200 University Ave., taking bids 2 story and basement, 100 x 175 ft. factory and machine shop. $60,000. J. W. Stevens, Exch. Bank, archt. Noted Jan. 28.

Buildings—Industrial (Continued)

Ark., Monticello—MILL—See "Contracts Awarded."

Bids Received

Ark., Monticello—MILL—Monticello Cotton Mills will build brick and concrete addition, increasing capacity from 7,500 to 12,000 spindles, by day labor, under supervision of Lockwood, Greene & Co., engrs., Healey Bldg., Atlanta, Ga. Engrs. est. $175,000.

Contracts Awarded

Vt., Bellows Falls—POWER HOUSE—New England Power Co., 35 Harvard St., Worcester, 15,000 to 35,000 hp. development, to Power Constr. & Eng. Corp., 35 Harvard St., Worcester. Archts. est. $3,000,000. Noted Feb. 4.

Mass., Attleboro — FACTORY — General Plant Co. will build 2 story, 50 x 215 ft., brick and steel, Forest & Horton Sts. Work probably will be done by separate contracts. $175,000. Private plans.

Mass., Cambridge (Boston P. O.)—FACTORY—Johnson-Appleby Co., 6 story, 60 x 200 ft., rein.-con., Charles River Parkway and Vasser Sts., to Aberthaw Co., School St., Boston. Archts. est. to exceed $40,000.

Mass., Worcester — ROD and BILLET STEEL MILL—Amer. Steel & Wire Co., C. S. Marshall, genl. mgr., brick and steel, South Wks., to Morgan Constr. Co., Cross St. Archts. est. 1,000,000.

N. Y., Buffalo — FACTORY — Republic Metalware Co., 90 Alabama St., rein.-con., brick and steel addition, to Metzer Constr. Co., 676 Genesee St., to exceed $500,000. Noted Mar. 25.

N. J., Plainfield—PLANT—Wood Newspaper Machine Corp., 2 story, rein.-con., brick and steel addition, plain foundation, to Wigton-Abbott Corp., 552 West 23rd St., New York City. Archts. est. $50,000.

Pa., Conshocken (br. Phila.)—PRINTING PLANT—Conshocken Record, Forest and Nector Sts., 1 story, mezzanine and basement, 85 x 836 ft., rein.-con., brick and steel, plain foundation, Forest and Hector Sts., to O. C. Fries, Conshocken. Noted Feb. 25.

Miss., Meridian—CREAMERY—Armour Packing Co., 208 South La Salle St., Chicago, Ill., G. M. Gettigan, mgr., will build 2 story and basement, 80 x 100 ft., concrete, brick and stone, here, by day labor, under supervision J. O. Davis, constr. supt. Archts. est. $150,000. Noted Jan. 28.

Ill., Bloomington—FACTORY—Williams Oil-O-Matic Heating Corp., 2 story, 20,000 sq.ft. floor space, brick, to Austin Co., 16112 Euclid Ave., Cleveland, O., to exceed $100,000.

Ill., Chicago — FACTORY — G. Hoffman, 2921 East 79th Pl., masonry contract 1 story and basement, 25 x 50 ft., brick and stone, 3067 East 93rd St., to F. M. Heinkel, 7534 Saginaw St. Archts. est. $50,000.

Ia., Mason City — POWER PLANT — Peoples Gas & Electric Co., F. J. Hanlon, pres. and genl. mgr., will build 2 story, rein.-con. and brick plant, by day labor. Archts. est. $1,000,000. Private plans.

Buildings—Educational, Religious

Proposed Work

Vt., Rockingham — HIGH SCHOOL — Town, School Bd., having preliminary plans prepared by Tooker & Marsh, 101 Park Ave., New York City, brick and steel high school. $275,000.

Mass., Newton—CONVENT—Franciscan Denomination, c/o T. E. Sheehan, archt., 120 Boylston St., Boston, soon lets contract 3 story, 61 x 140 ft., brick and steel convent, Monet St. $150,000.

Mass., Peabody—SCHOOL—City, School Bd., receiving competitive plans new school. $125,000-$150,000. Engineer and architect not selected.

Mass., Waverly (br. Boston)—CHURCH—St. Lukes Parish, R. Splaine, paster, soon lets contract 1 story and basement, 80 x 145 ft., brick and steel, Lexington St. $150,000. E. J. Shields, 64 Hovey St., Watertown, archt.

Conn., Bridgeport—CHURCH—Sisters of Notre Dame, 309 Brooks St., had plans prepared by J. A. Jackson, 185 Church St., New Haven, 1 and 2 story and basement, 65 x 75 ft., and 40 x 65 ft., brick and steel church addition and parish house, plain foundation, Brooks St. $150,000.

Conn., Bristol—NURSES HOME—Bristol Hospital, Queen St., soon lets contract 3 story and basement, 40 x 100 ft., brick and steel, Queen St. $150,000. C. H. Palmer, 111 Whitney Ave., New Haven, archt.

N. Y., Brooklyn—PAROCHIAL SCHOOL—St. Athanasius Roman Catholic Church, 2154 62nd St., having plans prepared by Starrett & Van Vleck, engrs. and archts., 393 7th Ave., New York City, brick, steel and stone, plain foundation, 62nd St., here. $500,000.

N. Y., Hempstead—SCHOOL—Church of Our Lady of Loretta, R. E. Boyle, pastor, soon takes bids brick, steel and stone, plain foundation, Greenwich St., here. $200,000. R. J. Reilly, 50 East 41st St., New York City, engr. and archt.

N. Y., Kenmore—SCHOOL—Bd. Educ. plans Dist. 4 School. $200,000.

N. Y., Rye—SCHOOL—Bd. Educ. having plans prepared by Woolsey & Chapman, archts. and engrs., 139 East 46th St., New York City, 3 story, brick, steel and stone, plain foundation, Boston Post Rd. $225,000.

N. J., Trenton — SCHOOL — Bd. Educ. Hamilton Twp. having plans prepared by W. A. Klemann, 1st Natl. Bank, and soon takes bids 2 story, 146 x 148 ft. school. $170,000.

N. J., Cliffside Park (mail Cliffside)—HIGH SCHOOL—Bd. Educ. Cliffside, rejected bids Mar. 26, brick, steel and stone, plain foundation. Palisade Ave., here. $325,000. E. Sibley, Bluff Rd., Palisade, archt. Noted Mar. 11.

N. C., Raleigh—SCHOOLS—Raleigh Twp. School Com., election Apr. 20, $1,300,000 bonds, for schools. H. T. Srygley, supt. schools.

O., Akron—SCHOOL—W. Koehl., archt., 1720 Euclid Ave., Cleveland, soon lets contract 2 story and basement, 64 x 105 ft., brick, steel and concrete addition, Brown St., for St. Pauls Roman Catholic Church. C. H. Boeke, pastor. $150,000.

O., Akron—SCHOOL—St. Pauls Parish, soon lets contract 2 story and basement, brick, Firestone Park. $150,000. W. W. Koehl, 1720 Euclid Ave., Cleveland, archt.

Ill., Chicago—SCHOOL—Chicago Latin School, c/o F. S. Porter, 1367 North State St., having plans prepared by E. H. Clark, 8 East Huron St., and takes bids about Apr. 23, 3 and 4 story, 94 x 132 ft., rein.-con. and brick, Dearborn Parkway near North Ave. $500,000.

Ill., Clinton—CHURCH—First Methodist Episcopal Church raising $150,000 funds, new church, 800 seating capacity, East Main and Madison Sts. R. C. Taylor, comr. Engineer and architect not selected.

Ill., Hillside — CHURCH, SCHOOL and MONASTERY—Servite Fathers Monastery c/o A. Brosnaham, pastor, 3121 West Jackson Blvd., Chicago, soon lets contract 2 and 3 story and basement rein.-con., brick and stone, here. $200,000. O'Mears & Hills, Arcade Bldg., St. Louis, Mo., archts. Noted Mar. 11.

Mo., Webster Groves—SCHOOLS—Voted $180,000 bonds, constructing (2nd unit) addition to high school and addition to negro high school, for Bd. Educ. Noted Mar. 4.

Tenn., Knoxville—SCHOOLS—Bd. Educ. having plans prepared by W. B. Ittner, 911 Locust St., St. Louis, Mo., and takes bids about July 14, 3 story Junior High School, $280,000; 3 story Lonsdale Elementary School, $231,000; 3 story Marble City School, $117,000; alterations and additions to other schools, $403,000. Noted Mar. 11.

Ark., Malvern — HIGH SCHOOL — Bd. Educ. Special School Dist., I. A. Roland, pres., soon takes bids 2 story, brick and stone high school. $150,000. Witt, Seibert & Halsey, 807 Texarkana Natl. Bank Bldg., Texarkana, Tex., archts.

Nev., Las Vegas—SCHOOL—Las Vegas School Dist., having preliminary plans prepared by F. J. DeLongchamps, Gazette Bldg., Reno, fireproof addition. $150,000.

Calif., Sacramento — CATHEDRAL — Westminster Presbyterian Church, S. L. Divine, pastor, 13th and K Sts., plans fireproof, 13th and N Sts. $250,000.

Calif., San Francisco—SCHOOL—City and San Francisco Co. having plans prepared by Hyman & Appleton, 68 Post St., fireproof additions to Madison School, Arguello Blvd., Cherry and Clay Sts. $150,000 or more. Noted Nov. 12.

Calif., Santa Barbara — CHURCH — Methodist Episcopal Church having plans prepared by T. P. Barber, 2008 West 7th St., Los Angeles, fireproof, Figueroa St. $300,000 or more.

Bids Desired

Mass., Roxbury (Boston P. O.) — CHAPEL—Rabbinical College, Inc., J. M. Jacobson, rabbi, 35 Intervale St., taking bids 2 story and basement, 95 x 120 ft., rein.-con., brick, steel and terra cotta, plain foundation, Warren and Brunswick Sts. $150,000. J. A. Tuck, Park Pl. Bldg., Boston, $150,000. Noted Dec. 24.

Conn., New Britain—SCHOOL—Apr. 2, by City, J. M. Halloran, chn. school com., 3 story, 60 x 200 ft., brick and steel addition, Tremont St. $200,000. M. J. Unkelbach, 52 Main St., archt. Noted Mar. 4.

Mass., Belmont (Boston P. O.) — CHURCH — St. Lukes Roman Catholic Church, 132 Lexington St., Waverly, taking bids 1 story and basement, 85 x 145 ft., rein.-con. and granite, Lexington and Beech Sts. $150,000. Private plans.

N. Y., Hollis (mail Jamaica) — SCHOOL —Apr. 8, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 118, Wildey Ave. from 190th Pl. to 190th St., here, for Bd. Educ., 500 Park Ave., New York City.

N. Y., Mariners Harbor (Ind. Sta. Staten Island)—SCHOOL—Apr. 8, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 44, Maple Parkway between Walloon St. and Union Ave., here, for Bd. Educ., 500 Park Ave., New York City.

Pa., Phila.—SCHOOL—Apr. 6, by Bd. Educ., J. D. Cassell, supt. Buildings, 19th and Chestnut Sts., 3 story and basement, 36 x 159 ft., rein.-con. and brick, plain foundation, 17th and Folsom Sts. $340,000. I. T. Catharine, 19th and Chestnut Sts., archt.

Pa., Phila.—SCHOOL—Apr. 6, by Bd. Educ., J. D. Cassell, supt. Buildings, 19th and Chestnut Sts., 3 story and basement, 141 x 212 ft., rein.-con. and brick, plain foundation, Lyms Ave. and Brunswick St. $600,000. T. T. Catharine, 19th and Chestnut Sts., archt.

N. C., Louisburg—HIGH SCHOOL—Apr. 6, by Bd. Educ. Franklin Co., 2 schools, one known as Epson High School, other as Gold-Sand High School. M. S. Davis, Louisburg, archt.

O., Bowling Green—GYMNASIUM—Apr. 28, by Trustees Bowling Green College, 90 x 150 ft. gymnasium, 2,500 seating capacity. $175,000. H. B. Briggs, Ohio Hartman Bldg., Columbus, archt. Noted Mar. 25.

O., Cleveland—ENGINEERING, etc.—Apr. 17, by Wilbur Watson & associates, archts., 4614 Prospect Ave., 3 story, 55 x 147 ft., brick, steel and concrete, Euclid St. and Adelbert Rd., for Case School Applied Science, C. S. Howe, pres. $200,000. Noted Mar. 11.

Mich., Chelsea—HIGH SCHOOL—Apr. 6, by K. Walworth, secy. Bd. Educ., 2 story and basement, 52 x 101 ft., rein.-con., brick and steel addition, plain foundation. $150,000. Warren Holmes-Powers Co., Lansing, archts.

Ill., Chicago—SCHOOLS—Apr. 13, by Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr. Josephene Carson Locke School, Pratt and Octavia Aves. and Ernst Prussing School, North Menard Ave. and Slocum St., both 2 story and basement, 72 x 386 ft., brick, stone and terra cotta, $500,000 each; also Bradwell School addition, East 77th St. and Burnham Ave. J. C. Christensen, 650 South Clark St., archt.

Wis., Waukesha—HIGH SCHOOL—Apr. 10, by Bd. Educ., E. R. Estberg, pres., (1st unit) Junior High School, 3 story and basement, brick, tile and concrete, plain foundation. $155,000. Parkinson & Dockendorff, Linker Bldg., La Crosse, archts. Noted July 23.

Que., Quebec — CHURCH — Apr. 5, by Bergeron & Lemay, archts., 145 St. Jean St., 1½ story, 80 x 200 ft., rein.-con., plain foundation, St. Francois d'Assise Parish, for Roman Catholic Church. $200,000.

Bids Received

Mass., Melrose—SCHOOL—City, 2 story and basement, brick and steel, 1st St., general contract, from Arlington Constr. Co., 313 Bway., Arlington, $121,500.

N. J., New Brunswick—PHYSICS—Bd. Institutions & Agencies, Trenton, Mar. 24, general contract 3 story and basement, brick and steel, plain foundation, here, from G. B. Rule, 71 John St., $177,000; electrical work, from Beaver Eng. Co., 59 Machanic St., $29,394. Noted Mar. 11.

O., East Cleveland (Cleveland P. O.) — SCHOOL—Bd. Educ., C. A. Tilden, dir., Shaw and Euclid Aves., Mar. 22, 2 story and basement, brick, steel and concrete, Caledonia St., from J. H. Moore, 18112 Landseer Rd., Cleveland, $121,000. Noted Mar. 4.

Calif., Los Angeles — SCHOOL — Bd. Educ., Mar. 17, general contract Horace Mann Junior High School, part 1, 2 and 3 story, 180 x 527 ft. main construction, and 75 x 150 ft. shop, rein.-con., from Salih Bros., Detwiler Bldg., $270,792; heating and ventilating, from Hoagland-Lakin Co., 1707 Naud St., $33,400. Noted Mar. 11.

Calif., Ventura — HIGH SCHOOL — Trustees Ventura Union High School Dist., 2 story, rein.-con., from C. P. Day Corp., Boston Bldg., Pasadena, $176,350. Noted Mar. 11.

Buildings—Educational, Religious (Cont.)

Contracts Awarded

Mass., Brighton (Boston P. O.) — SCHOOL — Schoolhouse Dept., Boston, 2 story, brick and stone, Howard Ave., Thomas Gardener Dist., here, to J. Rugo, 80 Boylston St., Boston. Archts. est. $150,000. Noted July 23.

Conn., New Haven—DORMITORY—Yale University, 125 person dormitory, Chapel and College Sts., to Sperry & Treat, 39 Church St. $470,000.

Conn., Plainville—SCHOOL—Town, L. S. Mills, chn. com., 2 story and basement, 65 x 160 ft., brick and steel, East St., to Lawrence Constr. Co., 372 Trumbull St., Hartford. Archts. est. $250,000. Noted Feb. 4.

Conn., Stamford—SCHOOL—City, C. H. Martin, school com., 3 story and basement, brick and steel, Lockwood Ave., to L. Keil, North Harlem Ave., Ossining, N. Y., $164,000. Noted Mar. 18.

Conn., Waterbury—NURSES HOME—St. Mary's Hospital, Union and Franklin Sts., 4 story and basement, 41 x 162 ft., brick and steel, South Elm St., to T. G. Smith Co., 18 Orange St. Archts. est. $200,000. Noted Feb. 11.

N. Y., Brooklyn—PAROCHIAL SCHOOL—St. Johns College, Lewis Ave., 5 story, brick, steel and stone, plain foundation, Lewis and Willoughby Aves., to J. Kennedy & Co., 1133 Bway., New York City. Archts. est. $600,000. Noted Feb. 25.

N. Y., New York—CHURCH—Park Ave. Baptist Church, 64th St. and Park Ave., church, 122nd St. and Riverside Dr., to Marc Eidlitz, 41 East 42nd St. Archts. est. $2,000,000.

N. J., Montclair — CHURCH — First Church of Christ Scientist, 55 x 190 ft., granite and stone, to J. F. & L. Carlson Co., Bloomfield Ave. Archts. est. $200,000. Noted Feb. 4.

Pa., Phila. — SYNAGOGUE and COMMUNITY CENTER — West Phila. Jewish Community Center, c/o A. J. Sauer Co., 1505 Race St., 3 story and basement, 108 x 179 ft., rein.-con., brick and steel, plain foundation, 63rd and Ludlow Sts., to M. Haupt & Co., 901 Walnut St. Archts. est. $350,000. Noted Feb. 18.

O., Cincinnati—SYNAGOGUE—Avondale Synagogue, Reading Rd., 1 story and basement, 90 x 140 ft., rein.-con., brick and stone, to J. Neyer, Central Ave. $350,000. Noted Dec. 24.

O., Fairport Harbor (br. Painesville)—SCHOOL—H. F. Eoose & G. Fox, archts., Vickers Bldg., Cleveland, 2 story and basement, 80 x 120 ft., steel and concrete, here, to A. Isabel, Painesville, O., for St. Anthony of Padua Roman Catholic Church, Z. Demko, pastor. Archts. est. $150,000. Noted Feb. 11.

Ind., Anderson—SCHOOL—Bd. Educ., 3 story, brick and rein.-con., plain foundation, to Dauner & Co., Kokomo, $151,600. Noted Mar. 4.

Ind., Connersville — SCHOOL — St. Gabriels Church, T. S. Mesker, pastor, 232 West 9th St., brick and rein.-con., to W. Gutzwiller, Batesville. Archts. est. $150,000.

Tex., Ft. Worth—HIGH SCHOOL—Apr. 5, by W. G. Clarkson & Co., archts., 1st Natl. Bank Bldg., 3 story addition, 40,000 sq.ft. floor space, South Side, for Bd. Educ., c/o E. A. Corbett, chn., W. T. Waggoner Bldg. $650,000.

Federal Government Work

Proposed Work

Mass., Boston—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., plans U. S. Veterans Hospital, near here. $1,500,000.

N. Y., Northport — Hospital — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., plans 25 buildings, incl. hospital, doctors, nurses and attendants quarters, garage, boiler house, etc., for U. S. Veterans Hospital, here. $3,000,000.

N. Y., Tupper Lake — Quarters — U. S. Veterans Bureau Arlington Bldg., Wash., D. C., had plans prepared additional officers quarters and store house, here.

La., Alexandria — Hospital — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., plans U. S. Veterans Hospital, here. $1,400,000.

O., Dayton — Administration, etc. — U. S. Army, at office Constructing Quartermaster, had plans prepared 2 story, 53 x 520 ft., administration building, and 1 story, 300 x 480 ft. laboratory, brick and steel, at aviation field, here. $463,800.

Ill., Great Lakes (br. Waukegan) — Recreation, etc.—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., having plans prepared additional buildings, incl. recreation, auditorium administration, etc., at hospital, here.

Ore., Portland—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., plans U. S. Veterans Hospital, here. $1,350,000.

Calif., Palo Alto—Hospital, etc.—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., plans additions to U. S. Veterans Hospital, here, incl. administration, nurses quarters, attendants quarters, recreation building, etc.

T. H., Pearl Harbor—Generator Sets—Spec. 5200—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans motor generator sets, here.

Bids Desired

N. Y., Buffalo—Cable—Apr. 20, by Supt. Lighthouses, approximately 18,800 ft. armored submarine cable, adv. E. N.-R. Apr. 1.

N. Y., Newark — Addition — Apr. 20, by Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story, extension to U. S. Post Office, here. J. A. Wetmore, acting superv. archt.; adv. E. N.-R. Apr. 1.

N. Y., Syracuse—Mezzanine, etc.—Apr. 16, by Treas. Dept. at office Supervising Archt., Wash., D. C., mezzanine floor for U. S. Court Room, and changes at U. S. Post Office, here. J. A. Wetmore, acting superv. archt.; adv. E. N.-R. Apr. 1.

Pa., Fort Mifflin (mail Essington) — Dredging—Apr. 22, by U. S. Engineer Office, 1505 Race St., Phila., dredging 47,000 cu.yd. in Delaware River, here.

D. C., Wash.—Cranes—Apr. 30, by U. S. Engineer Office, 1068 Navy Dept. Bldg., 2 hand power traveling cranes for water supply project; adv. E. N.-R. Apr. 1.

D. C., Wash.—Quarters—Spec. 5087—Apr. 28, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to nurses quarters at Naval Hospital, here.

Va., Norfolk—Catamarans—Apr. 28, by U. S. Engineer Office, pontoon catamarans and pipe for 15 in. pipe line dredge; adv. E. N.-R. Apr. 1.

Fla., Pensacola—Storage—Spec. 5187—Apr. 21, by Bureau Yards & Docks, Navy Dept., Wash., D. C., fuel oil and gasoline storage at Naval Air Station, here. Noted Feb. 18.

Tenn., Memphis—Brush and Poles—Apr. 22, by Dist. Engr. Mississippi River Comn., 75,000 cords brush and poles.

Tenn., Memphis — Wire, etc. — Apr. 12, at office Mississippi River Comn., 1st and 2nd Dists., McCall Bldg., 85,700 lb. galvanized wire, wire strand, etc.; adv. E. N.-R. Apr. 1.

Ill., Macomb — Extension — Apr. 19, by Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story extension to U. S. Post Office, here. J. A. Wetmore, acting supervs. archt.

Ia., Cedar Rapids—Vestibule, etc.—Apr. 5, by Treas. Dept. at office Supervising Archt., Wash., D. C., extending mailing vestibule and driveway at U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

Okla., Oklahoma City—Extension—Apr. 21, by Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story extension to U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

Arizona — Road — Apr. 7, by C. H. Sweetser, dist. engr. Bureau Pub. Roads, Dept. Agriculture, 242 West Washington St., Phoenix, grading, etc. Snowflake-Pinetop Natl. Forest Rd., in Sitgreaves Natl. Forest, Navajo Co.

Wash., Easton—Canal—Apr. 29, at office Bureau Reclamation, Ellensburg, constructing Kittitas Main Canal, Div. 1, from Station 31 plus 32.7 to Station 226 plus 00, near here. E. Mead, comr.; adv. E. N.-R. Apr. 1.

Ore., Astoria—Quarters—Spec. 5170—Apr. 14, by Bureau Yards & Docks, Navy Dept., Wash., D. C., double quarters at Naval Radio Station, here. Noted Feb. 18.

Calif., Santa Barbara—Extension—Apr. 12, by Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story, extension to U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

Bids Received

Conn., Torrington—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., Mar. 26, remodeling and enlarging U. S. Post Office, here, from C. Longhi & Sons, Torrington, $13,550. Noted Mar. 11.

Md., Baltimore—Storehouse—Treas. Dept. at office Supervising Archt., Wash., D. C., Mar. 25, storehouse, etc., at U. S. Quarantine Station, here, to Bell Concrete Constr. Co., 802 Eager St., $2,664. Noted Mar. 11.

Ill., Great Lakes (Br. Waukegan) — Ash Handling System—Spec. 5184—Bureau Yards & Docks, Navy Dept., Wash., D. C., Mar. 24, ash handling system for Naval Training Station, here, from Unit Conveyor Corp., 37 West Van Buren St., Chicago, Ill., $5,066. Noted Mar. 4.

Contracts Awarded

N. Y., New York—Dredging—U. S. Engineer Office, 39 Whitehall St., Dredging in Harlem River, to Great Lakes Dredge & Dock Co., 17 Battery Pl., $18,600. Noted Mar. 4.

Ky., Louisville — Dam — U. S. Engineer Office, P. O. Box 72, constructing Dam in Ohio River, at Golconda, Ill., to Contg. Co., 1401 Arch St., Phila., Pa., $149,998. Noted Feb. 18.

O., Dayton — Foundations — Office Constructing Quartermaster, concrete foundations for administration and laboratory buildings at Wright Field, to J. I. Cooper, 28 Maple So., $38,909. Noted Feb. 11.

O., Toledo—Dredging—U. S. Engineer Office, Detroit, Mich., dredging in Maumee Bay, here, to Duluth-Superior Dredging Co., foot 45th Ave., Duluth, Minn., $160,950. Noted Feb. 18.

Mo., Joplin—Vestibule, etc.—Treas. Dept. at office Supervising Archt., Wash., D. C., vestibule, etc., at U. S. Post Office, here, to G. A. Dieter, Joplin, $5,310. Noted Mar. 11.

Calif., Mare Island — Hospital — Spec. 5105—Bureau Yards & Docks, Navy Dept., Wash., D. C., general contract rein.-con., brick and steel hospital at Navy Yard Hospital, here, to Barrett & Hilp, 918 Harrison St., San Francisco, $556,326; heating, etc., to Lawson & Drucker, 465 Tehama St., San Francisco, $123,500; and electrical work, to H. A. Porter, 1500 Church St., San Francisco, $25,425. Grand total $705,251. Noted Mar. 11.

Ont., Toronto — OFFICE — Dept. Pub. Wks., Parliament Bldgs., interior finishing 4 story and basement, Queens Park, to Jackson Lewis Constr. Co., Federal Bldg., $351,000.

Unclassified

Proposed Work

Velodrome — East Hartford (br. Hartford), **Conn.**—Le Bal Tabarin, J. J. Byrnes, 271 Farmington Ave., Hartford, plans velodrome, 8,000 seating capacity, replacing Le Bal Tabarin, recently destroyed by fire, here. To exceed $25,000. Engineer not selected.

Grade Crossing Elimination—New York—Transit Comn., 270 Madison Ave., New York City, plans 21 grade crossings at Mariners Harbor $3,500,000, 2 at Ft. Wadsworth $500,000, 1 at Maple Ave. $100,000, and 1 at Bay St. $500,000; all foregoing in Richmond Boro; 4 crossings at Bridge St., Flushing, $1,000,000; 5 at Ozone Park, $1,200,000; 2 at Auburndale and Bayside, $1,000,000. L. T. Harkness, chn. comn.

Swimming Pool — Buffalo, N. Y. — See "Buildings—Commercial."

River Terminal — Baton Rouge, La. — Federal Barge Line, making plans floating dock, river and rail interchange terminal, here. $200,000. W. F. Schultz, 871 Shrine Bldg., Memphis, Tenn., engr.

Green House—Richmond, Ind.—J. H. Hill having plans prepared by Lord & P. Burnham, 208 South LaSalle St., Chicago, Ill., brick and steel green houses, incl. boiler room and packing building, etc. $400,000. H. C. Carroll, 511 Traction Terminal Bldg., Indianapolis, engr.

Car Barns — Cedar Rapids, Ia. — Cedar Rapids & Marion St. Ry. Co., D Ave. and 2nd St., take bids about May 1, 1 story, 140 x 300 ft., brick and tile car barns. $225,000. Private plans.

Grain Drying—Council Bluffs, Ia.—Chicago, Rock Island & Pacific R.R. Co., La Salle St. Sta., Chicago, Ill., C. A. Morse, ch. engr., plans plant, 50,000 bu. capacity for cleaning grain and 20,000 bu. capacity for drying grain, in connection with grain elevator, here. $25,000.

Electric Transmission Line—Arkansas—Arkansas Pub. Serv. Co., Boyle Bldg., made preliminary surveys electric transmission line from Wayne to Harrisburg and distribution system at Harrisburg. $100,000. H. D. Petty, Little Rock, engr.

Underpass — Montana — Great Northern R.R. Co., J. R. W. Davis, ch. engr., St. Paul, Minn., plans 26 ft. concrete arch underpass under 4 tracks main line railroad at Glacier Park Sta., here. $70,000. Work will probably be done by day labor. Cost to be borne by Railroad and Bureau Pub. Roads. State Hy. Dept., Helena, engrs.

Unclassified (Continued)

Swimming Pool—Beverly Hills, Calif.—See "Buildings—Commercial."

Transmission Line—Quebec—Huntington Electric Co., Huntington, plans election transmission line from Trout River to Huntington. $100,000. A. Lariviere, 56

Elevator—Port McNicoll, Ont.—Canadian Pacific Ry., Windsor Sta., Montreal, Que., plans 2,000,000 bu. grain elevator, rein.-con. $1,170,000. J. M. R. Fairbairn, Windsor Sta., Montreal, Que., engr.

Transmission Line—Toronto, Ont.—Hydro-Electric Power Comn., 190 University Ave., plans 200 to 225 mi. steel tower construction high voltage transmission line from Toronto to Ottawa River. $5,000,000. F. A. Gaby, 190 University Ave., engr.

Bids Desired

Traffic Signals — Bridgeport, Conn. — Taking bids 15 electric signal regulators in 15 different sections of city. $25,000. S. Dawe, comr. Bd. Police Comn. Noted Feb. 18.

Signal System—Buffalo, N. Y.—May 18, by J. Grimm, ch. Police Signal System, City Hall, electrically operated traffic control signal system in Delaware Ave., for City.

Fieldhouse, etc.—New York, N. Y.—Apr. 8, by Park Bd., F. D. Gallatin, pres., Arsenal Bldg., Central Park, 64th St. and 5th Ave., fieldhouse and comfort station, in Hamilton Pl. Park, here.

Special Work—New York, N. Y.—Apr. 9, by Bd. Transportation, 49 Lafayette St., J. H. Delaney, chn., supply special work (rails, frogs and switches), for use in construction portion Queensboro Subway Extension to 8th Ave.

Transmission Line—Highlands, N. C.—See "Buildings—Industrial."

Street Signs and Posts—Pontiac, Mich.—Apr. 9, at office of H. A. Maurer, city clk., City Hall, street signs and posts. J. R. Pollock, city engr.; adv. E. N.-R. Apr. 1.

Culverts—Iowa—See "Bridges."

Culverts—Omaha, Neb.—Apr. 13, by G. Berger, clk. Douglas Co., rein.-con., corrugated iron and clay culverts for 1926. $60,000.

Rolling Doors—San Francisco, Calif.—Apr. 8, by State Bd. Harbor Comrs., Ferry Bldg., steel rolling doors for Pier 50. $20,000-$30,000. Former bids rejected. Noted Mar. 25.

Tunnel—San Francisco, Calif.—May 5, at office Bd. Pub. Wks. of City and San Francisco Co., constructing tunnel and appurtenances under Buena Vista Park. W. J. Fitzgerald, secy.; adv. E. N.-R. Apr. 1. Noted Mar. 18.

Transmission Line—Quebec—See "Contracts Awarded."

Oil Drilling Equipment—Petrolea, Ont.—W. J. Hussey taking bids oil drilling equipment. $50,000.

Bids Received

Ornamental Lighting System—Los Angeles, Calif.—Supervs. Los Angeles Co., metal standards on streets between Slauson Ave. and 84th Pl. and from Central Ave. easterly, from Robertson Electric Co., 303 North Main St., Santa Ana, and Walker & Martin, 402 West Wilshire Blvd., Fullerton, $46,307 each. Noted Mar. 11.

Contracts Awarded

Elimination Grade Crossing — Buffalo, N. Y.—Grade Crossing & Terminal Station Comn., 1036 Endicott Sq., eliminating grade crossing of Colvin St. at Erie and Delaware, Lackawanna & Western R.R. tracks by constructing subway and approaches, to Erie Contg. Co., Morgan Bldg., $54,000. Noted Mar. 11.

Stadium — Chicago, Ill. — University of Chicago, 230 South Clark St., general contract 440 ft. double deck concrete stadium addition, 150 ft. high, 17,433 seating capacity, Stagg Field, to E. L. Scheidenhelm Co., 111 West Monroe St., about $500,000. Noted Jan. 7.

Coaling Station—Washington, Ia.—Chicago, Rock Island & Pacific R.R. Co., La Salle Street Sta., Chicago, Ill., C. A. Morse, ch. engr., 400 ton frame coaling station, here, to Howlett Constr. Co., 20 West Jackson St., Chicago, Ill.

Coaling Station—West Liberty, Ia.—Chicago, Rock Island & Pacific R.R. Co., La Salle Sta., Chicago, Ill., C. A. Morse, ch. engr., 400 ton frame coaling station, here, to Fairbanks, Morse Co., 900 South Wabash Ave., Chicago, Ill.

Coaling Station—Enid, Okla.—Chicago, Rock Island & Pacific R.R. Co., La Salle St. Sta., Chicago, Ill., C. A. Morse, ch. engr., 300 ton frame coaling station, here, to Rail Road Water & Coal Handling Co., 608 Dearborn St., Chicago, Ill.

Swimming Pool — San Antonio, Tex. — City, J. W. Tobin, mayor, will build 50 x 170 ft., rein.-con. swimming pool, Conception Park near Mission Pumping Plant, by day labor. $30,000. E. Ewig, city engr.

Pier—Port Angeles, Wash.—Port Angeles Port Comn., to Owens Bros., Port Angeles, 150 x 552 ft. pile and timber pier, 1,000,000 ft. timber at $29.75 per M. and 43,500 lb. iron $0.065, etc., total $102,012. Engrs. est. $107,193.

Swimming Pool — Aptos, Calif. — See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Swimming Pool—Los Angeles, Calif.—See "Buildings—Commercial."

Piling—Los Angeles, Calif.—Bd. Harbor Comn., Duocrete pre-cast concrete piling, pressure treated with asphalt, for Berths 228-D and 228-E, to California Constr. Co., Citizens Natl. Bank Bldg., $211,650.

Lighting System—Maywood, Calif.—See "Streets and Roads."

Ornamental Lighting System—San Diego, Calif.—See "Streets and Roads."

Transmission Line—Quebec—Duke Price Co. Ltd., St. Joseph d'Alma, will build 42 mi. 350,000 hp. electric transmission line with 90 ft. steel and concrete towers, from Alma to Port Alfred. $2,000,000. Work will be done by company forces. Quebec Development Co., Ltd., 116 Cote de la Montagne, Quebec, engr.

Materials

Proposed Work

Sewer Pipe, Cement, etc.—Chatham, Ont.—Soon takes bids sewer pipe, cement, stone, sand, waterworks supplies, etc., for 1926. $30,000. C. H. Fuller, City Hall, engr.

Bids Desired

Road Oil, etc.—Boston, Mass.—Apr. 7, by Supply Dept., 300,000 gal. 45% asphaltic road oil, also asphaltic cement, Portland cement, road and Bermudez asphalt for various city depts. F. L. Brier, supt.

Pipe, Cement, etc. — Everett, (Boston P. O.), **Mass.**—Apr. 5, by Bd. Pub. Wks., City Hall, c.i. water pipe, sand, cement, sidewalk brick, sewer brick, sewer pipe, crushed stone, edgestone, granite blocks, road oil and binders required during 1926. J. Chambers, chn.

Crushed Rock, etc.—New Jersey—Apr. 12, by State Hy. Comn., Trenton, highway maintenance materials, incl. crushed trap rock, limestone, bituminous concrete, sheet asphalt, tar, etc. A. L. Grover, secy.; adv. E. N.-R. Apr. 1.

Cement, etc. — Shreveport, La. — See "Streets and Roads."

Road Signs—Iowa—Apr. 20, by State Hy. Comn., Ames, state road signs, U. S. road signs and posts; adv. E. N.-R. Apr. 1.

Culvert Pipe—Independence, Ia.—Apr. 6, at office Auditor Buchanan Co., 3,700 ft. corrugated culvert pipe. A. R. Bartwell, Independence, co. engr.

Culvert Pipe—Knoxville, Ia.—Apr. 6, at office Auditor Marion Co., 1,230 ft. corrugated culvert pipe. R. T. Johnson, Knoxville, co. engr.

Tile Drain, Intakes, etc. — Pocahontas, Ia. — Apr. 6, at office auditor Pocahontas Co., 59,500 ft. 6 in. tile drain, and 52 intakes.

Timber and Culvert Pipe—Sac City, Ia.—Apr. 9, at office Auditor Sac Co., 2 cars bridge timber and 5,448 ft. culvert pipe. M. A. Varley, Sac City, co. engr.

Culvert Pipe—Storm Lake, Ia.—Apr. 5, at office Auditor Buena Vista Co., 3,838 ft. culvert pipe. A. H. Cunningham, Storm Lake, co. engr.

Road Oil—Menasha, Wis.—Apr. 8, by J. F. DeCaro, city clk., 20,000 gal. 60% to 70% asphaltic content road oil.

Asphaltic Cement — Milwaukee, Wis. — Apr. 8, by Central Bd. Purchases, J. W. Nicholson, ch. buyer, Spec. 1, 100 tons, Spec. 2, 175 tons, Specs. 3, 4 and 5 each 125 tons asphaltic cement.

Steel—Oshkosh, Wis.—Apr. 8, by F. C. Steiner, highway comr. Winnebago Co., 37,048 ft. 18 gauge steel 6¼ in. wide, 1 in. V steel road strips 8 ft. long and stakes for same, 3,200 ft. 9 in. steel side forms and stakes for same, 9,200 pieces 4 ft. ⅝ in. smooth round bars, and 600 pieces ⅝ in. bars 30 ft. long.

Steel Tank Plates, etc.—St. Louis, Mo.—Apr. 9, by Missouri Pacific R. R. Co., Railway Exch. Bldg., W. A. Hopkins, genl. purch. agt., approximately 200 tons 7/16 in. steel tank plates; 60 tons 8, 10, 12, 14 and 16 steel blue annealed sheets; 1 ton No. 18 and lighter steel black sheets, 30 tons No. 20 steel galvanized sheets and lighter, 20 tons steel locomotive jacket, etc. E. A. Hadley, ch. engr.

Contracts Awarded

Road Oil—New Haven, Conn.—To New Haven Gas Light Co., 80 Crown St., tar road oil at $0.10 per gal.; to F. L. Ford, 195 Church St., hot asphalt $0.13 and Barker liquid $0.10 on 50,000 gal. basis total 350,000 gal. Noted Mar. 18.

Portland Cement, etc.—Brooklyn, N. Y.—J. A. Guider, pres. Brooklyn Boro, Boro Hall, 8,000 bbl. Portland cement and 4,000 cu.yd. paving concrete sand, to M. F. Hickey Co., Inc., 83 9th St., $21,920 and $4,160 respectively; 5,000 cu.yd. course aggregate and 3,000 tons limestone dust, to New York Trap Rock Co., 101 Park Ave., New York City, $8,650 and $12,900 respectively; 3,000 cu.yd. sand grit, to Rosoff Sand & Gravel Co., 152 West 42nd St., New York City, $5,370; 2,000 cu.yd. paving sand, to T. E. McCormick, 810 Lincoln Rd., $2,250; 600,000 gal. asphaltic road oil, to Standard Oil Co. of New York, 26 Bway., New York City, $37,140; 600,000 gal. asphalt cement, to Warner Quinlan Co., 79 Wall St., New York City, $38,160; 500,000 gal. fuel oil, to Texas Co., 17 Battery Pl., New York City, $22,770; 12,000 cu.yd. asphalt sand, to Z. Mahoney, 557 46th St., $12,360; 8,000 cu.yd. binder stone, etc., to Calvin Tompkins Co., 30 Church St., New York City, $15,520; and 15,000 cu.yd. steam cinders to W. F. Rourke, 259 77th St., $17,250. Grand total $198,450. Noted Mar. 25.

Rails, Timber, etc.—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., open hearth rail (Order 4) for Rapid Transit R.R., to Bethlehem Steel Co., 25 Bway., engrs. est. $3,000; ties and timber (Order 14) for portion Queensboro Subway, to A. R. Sax Lumber Co., 166 West 32nd St., $3,688. Noted Mar. 11.

Creosoted Ties — Phila., Pa. — H. E. Ehlers, dir. Dept. City Transit, 1211 Chestnut St., approximately 1,735,000 ft. southern yellow pine ties, for Broad St. subway, Contr. 122, to Jennison-Wright Co., 2463 Bway., Toledo, O., $180,627. Noted Mar. 11.

Pipe—Muskegon, Mich.—For 12,670 ft. 8- to 20-in. vitr. pipe, to York & Co., Globe Realty Bldg., Grand Rapids, $4,314; 970 ft. 27- to 36-in. concrete pipe, to Lamar Pipe & Tile Co., 331 Michigan Trust Bldg., Grand Rapids, $3,737.

Paving Blocks — Baltimore, Md. — Bd. Awards, vitr. paving blocks, f.o.b. Baltimore, for Bureau Highways during 1926, to Westport Paving Brick Co., Westport, Item 1 $38, Item 2 $35. Noted Mar. 25.

Road Oil — Carlinville, Ill. — Macoupin Co., 30 car loads road oil, f.o.b. any point, to L. Marsch, Morrisonville, at $0.0495 per gal. Noted Mar. 11 under "Streets and Roads."

Road Oil—Pekin, Ill.—Tazewell Co., 1,320,000 gal. road oil, f.o.b. cars destination, to Monarch Asphalt & Road Oil Co., Peoria Life Bldg., at $0.0474 per gal.

Road Oil — Sturgeon Bay, Wis. — E. S. Ackerman, city clk., 10,000 gal. tarvia B, to Barrett Co., 216 West Monroe St., Chicago, Ill., at $0.115 per gal.; 28,000 gal. asphalt oil, to Standard Oil Co., 414 Sycamore St., Milwaukee, $0.062; and 10,000 gal. 40% to 50% asphalt oil, to P. M. Peterson Oil Co., Sturgeon Bay, $0.06¼ per gal. Noted Mar. 4.

Road and Bridge Material—Corydon, Ia.—To Central Culvert Co., Ottumwa, 1,500 ft. 12 in. corrugated culvert pipe at $0.68 per ft., 2,000 ft. 15 in. $0.85, 600 ft. 18 in. $1.24, and 100 ft. 24 in. $1.66; to Hayes Lumber Co., Corydon, 2,000 lb. red lead at $14.75 per lb., 20 tons reinforcing $2.56, 750 bbl. cement $2.86, 64 cwt. nails $3.39, 20 cwt. No. 9 wire $3.37; and to Corydon Lumber Co., Corydon, 36 x 20 ft. I-beam bridge at $4.75.

Pipe, etc.—Toronto, Ont.—To Bowden Machine Co., Sterling Rd., twenty-seven 3 nozzle post style hydrants at $288.75 each; to Natl. Meter Co. of Canada, 151 Duchess St., positive displacement meters, 2 in. $92.50 each, 3 in. $174.40 each; to Drummond McCall & Co., 373 Front St. E., positive displacement meters, 4 in. $298.40 each, 6 in. $507.75 each, 8- to 20-in. cast steel pipe and castings, and 8 in. gate valves $84.25 each, and 20 in. check valves $670 each; to Neptune Meter Co., 345 Sorauren Ave., 3 in. compound meters $177.84 each, 4 in. $296.40 each, and 6 in. $592.80 each; to Worr Fdry., 163 Sterling Rd., 4 thirty in. c.i. ⅛ bends $197 each; to Dominion Wheel & Foundries Co., 131 Eastern Ave., two 30 in. c.i. sleeves $89.50 each, special castings $5 per 100 lb., and five 20 in. c.i. stop valves $545 each; to Bowden Machine Co., Sterling Rd., 8 in. gate valves $80 each; to Mussens Ltd., Confederation Life Bldg., two speed engines $3,060 each.

See proposal advertising on page 158, Advertising Section

Look Ahead 10 Years

And Ask Yourself These Questions About the Fence You Buy

What will be the condition of the fence framework — the backbone of its strength?

Will it be as strong as it was when the fence was built? Or will there be rust inside or out to weaken the posts? Will the barb-wire arms be all in place and standing out rigid and true? Will the alignment of the fence sway over where something pushed against it?

A good fence will still be in its youth — after 10 years. Specify a fence with steel angle posts — an

AFCO-STEWART STANDARD FACTORY FENCE.

How will the fabric look— after 10 years' weathering?

Will it be there—or gone back to earth in bits of rust? Will it hang taut and rigid, or will it have sagged and bagged under the strains of standing guard?

Not if it is Afco-Stewart Chain Link — *galvanized after weaving.*

Pick the other points in Factory Fence Specifications and question yourself along the same lines—compare and then decide.

Ask for our Factory Fence Specifications and analyze the strength and durability of Afco-Stewart Fence.

Stewart's Fences Standard of the World

The Stewart Iron Works Company
(Incorporated)
784 Stewart Block,
Cincinnati, O.

American Fence Construction Co.
(Incorporated)
221-5 West 57th Street,
New York, N. Y.

Afco Chain Link Product Plus Service

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Highways, Louisiana, State Hy. Comn., Baton Rouge, plans expending $16,000,000 during 1926.

Paving, Orlando, Fla., Orange Co. voted $7,000,000 bonds for paving 340 mi.

Theatre and office, Seattle, Wash., Publix Theatres Corp having sketches made, $5,000,000.

Apartment Hotel, St. Louis, Mo., Local Syndicate plans building, $5,000,000.

Railway extensions, equipment, and shops, San Francisco, California plans to appropriate $4,076,000.

Hotel, Santa Barbara, Calif., Biltmore Hotel Interests having plans prepared, $4,000,000.

Office, Chicago, Ill., Building Construction Employers Assn. having sketches made, $4,000,000.

Sewers, Chicago, Ill., City made plans for 10 mi. of sewers, $3,500,000.

Schools, Atlanta, Ga., voted $3,500,000 bonds for school buildings.

Sewers, Chicago, Ill., Bd. Local Impvts. plans 7.5 in. sewers, and 2 mi. relief sewers, total, $3,490,000.

Bids Wanted

Office, New York, N. Y., Lower Broadway Properties soon takes bids, $2,500,000.

Mill, Three Rivers, Que., St. Lawrence Paper Co., Ltd. taking bids for paper mill, $2,000,000.

Cold storage plant, Halifax, N. S., J. W. Norcross soon takes bids, $2,000,000.

Store, Baltimore, Md., Apr. 12, J. E. Sperry for Hockschild, Kohn & Co., $2,000,000.

City hall additions, Providence, R. I., City Com. Pub. Bldgs., Apr. 12, $1,000,000.

Theatre, store, and office, Los Angeles, Calif., G. A. Lansburgh, archt. for Warner Bros., $1,000,000.

Warehouse, New York, N. Y., Lincoln Storage Warehouse soon takes bids, $1,000,000.

Contracts

Furniture Mart, Chicago, Ill., American Furniture Mart to Wells Bros. Constr. Co., $2,000,000.

Tunnel, Pattenburg, N. J., Lehigh Valley R.R. Co. to Deats & Rogers, $1,500,000.

Office, New York, N. Y., Consolidated Gas Co. to Kenn-Well Constr. Co., $1,500,000.

Piers for bridge, Poughkeepsie, N. Y., F. S. Greene, supt. Pub. Wks. to Philipsburgh Constr. Co., $1,841,545.

Apartment, Philadelphia, Pa., Forty-third and Locust St. Building Co. to R. P. Whitty, $1,700,000.

Classified Index of Bids Wanted

Waterworks

Bids close — *See Eng. News-Record*

Apr. 9 Trenton, N. J. .....Apr. 1
Apr. 12 New Britain, Conn. .....Mar. 18
Apr. 12 Marshall, Mo. .....Apr. 1
Apr. 12 Hastings, Neb. .....Apr. 8
Apr. 13 Trenton, N. J. .....Apr. 8
Apr. 13 Isola, Miss. .....Apr. 8
Apr. 14 Cleveland, O. .....Apr. 8
Apr. 14 Providence, R. I. .....Apr. 8
Apr. 14 Okmulgee, Okla. .....Apr. 1
Apr. 15 Salisbury, Md. .....Mar. 25
Adv. Mar. 25 to Apr. 8.
Apr. 15 Kenosha, Wis. .....Apr. 1
Apr. 15 Hastings, Neb. .....Apr. 8
Apr. 16 Mackinaw, Mich. .....Mar. 25
Apr. 19 Ebensburg, Pa. .....Apr. 1
Adv. Apr. 8.
Apr. 19 St. Lambert, Que. .....Apr. 1
Apr. 19 Los Angeles, Calif. .....Apr. 8
Apr. 19 Harvey, N. D. .....Apr. 8
Apr. 20 Key West, Fla. .....Apr. 8
Adv. Apr. 8.
Apr. 20 Saltsburg, Pa. .....Apr. 8
Adv. Apr. 8.
Apr. 22 Kingston, N. Y. .....Apr. 8
Adv. Apr. 8.
Apr. 26 Northwalk, Conn. .....Apr. 8
Adv. Apr. 8.
Apr. 28 Bath, N. Y. .....Apr. 1
Adv. Apr. 1 and 8.
Apr. 29 Nyack, N .Y. .....Apr. 8
Adv. Apr. 8.
Apr. 30 New Market, Va. .....Mar. 25

Sewers

Apr. 9 Boston, Mass. .....Apr. 1
Apr. 12 Buffalo, N. Y. .....Mar. 18
Apr. 12 Greenburgh, N. Y. .....Apr. 1
Adv. Mar. 25 to Apr. 8.
Apr. 12 Schaller, Ia. .....Apr. 1
Apr. 13 Audubon, Ia. .....Apr. 8
Apr. 14 Brooklyn, N. Y. .....Apr. 8
Apr. 14 Oakhurst, N. J. .....Apr. 8
Adv. Apr. 8.
Apr. 14 Baltimore, Md. .....Apr. 8
Apr. 14 Beloit, Wis. .....Apr. 8
Apr. 14 Chicago, Ill. .....Apr. 8
Apr. 19 Okemah, Okla. .....Apr. 8
Apr. 19 Hasbrouck Heights (Ind. br. Hackensack), N. J. .....Apr. 1
Adv. Apr. 1 and 8.
Apr. 19 Harvey, N. D. .....Apr. 8
Apr. 20 Corsicana, Tex. .....Apr. 8
Adv. Apr. 8.
Apr. 20 Lakeland, Fla. .....Apr. 1
Adv. Mar. 25 to Apr. 8.
Apr. 20 Muskegon, Mich. .....Apr. 1
Apr. 21 San Francisco, Calif. .....Apr. 8
Apr. 21 Antigo, Wis. .....Mar. 25
Adv. Apr. 8.

Bids close — *See Eng. News-Record*

Apr. 21 Grand Rapids, Mich. .....Apr. 1
Apr. 29 North Chattanooga (br. Chattanooga), Tenn. .....Apr. 1
May 3 South Portland, Me. .....Apr. 8
Adv. Apr. 8.
May 6 Bloomington, Ill. .....Apr. 8
Adv. Apr. 8.

Waste Disposal

Apr. 12 Highlands, N. J. .....Apr. 8
Adv. Apr. 8.

Bridges

Apr. 10 Johnstown, Pa. .....Mar. 25
Apr. 12 Indianapolis, Ind. .....Mar. 25
Apr. 12 Marshalltown, Ia. .....Apr. 8
Apr. 13 Marengo, Ia .....Apr. 8
Apr. 13 Omaha, Neb. .....Apr. 1
Apr. 14 Mississippi .....Mar. 25
Apr. 15 Nevada, Ia. .....Apr. 8
Apr. 15 Cedar Rapids, Ia. .....Apr. 8
Apr. 15 Chicago, Ill. .....Apr. 8
Apr. 16 Cincinnati, O. .....Mar. 25
Apr. 16 Ohio .....Apr. 8
Apr. 19 Seneca, Kan. .....Apr. 8
Apr. 20 Amherst, Mass. .....Apr. 8
Apr. 21 Eldorado, Kan. .....Apr. 1
Apr. 22 North Dakota .....Mar. 18
Apr. 26 California .....Apr. 8
Apr. 29 Louisiana .....Apr. 8
Apr. 30 Olathe, Kan. .....Apr. 8
Apr. 30 Duluth, Minn. .....Mar. 25
May 1 Val Morin, Que. .....Apr. 8
May 3 Morgantown, W. Va. .....Apr. 8
Adv. Apr. 8.
May 4 Maine .....Apr. 8
May 15 Anderson, Ind. .....Apr. 8
May 19 Minneapolis, Minn. .....Apr. 8
Adv. Apr. 8.

Dams

Apr. 16 Livonia, N. Y. .....Mar. 25
Adv. Mar. 25 to Apr. 8.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Apr. 10 Pulaski, Ill. .....Apr. 1
Apr. 10 Sardis, Miss. .....Apr. 1
Apr. 13 Baton Rouge, La. .....Apr. 1
Apr. 14 Bradenton, Fla. .....Mar. 25
Adv. Mar. 25 and Apr. 1.
Apr. 14 New York .....Apr. 1
Apr. 16 Montague, Calif. .....Apr. 8
Apr. 16 Urbana, Ill. .....Apr. 8
Apr. 19 Thermalito, Calif. .....Apr. 8
Apr. 19 Cape Girardeau, Mo. .....Apr. 8
Apr. 23 Albany, N. Y. .....Apr. 8
Adv. Apr. 8.
Apr. 27 New York .....Apr. 1
Adv. Apr. 1 and 8.

Streets and Roads

Bids close — *See Eng. News-Record*

Apr. 9 Cincinnati, O. .....Apr. 1
Apr. 9 Bridgeton, N. J. .....Apr. 8
Apr. 9 St. George, N. Y. .....Apr. 8
Apr. 12 Brookline (br. Boston), Mass. .....Apr. 8
Apr. 12 Kentucky .....Mar. 11
Apr. 12 Akron, O. .....Mar. 11
Apr. 12 Kentucky .....Mar. 18
Apr. 12 Keokuk, Ia. .....Apr. 1
Apr. 12 California .....Apr. 1
Apr. 12 New Jersey .....Apr. 1
Apr. 12 Oakland, Calif. .....Apr. 1
Apr. 12 San Diego, Calif. .....Apr. 1
Apr. 12 Huntington, W. Va. .....Apr. 8
Apr. 12 West Allis, Wis. .....Apr. 8
Apr. 12 Marshalltown, Ia. .....Apr. 8
Apr. 13 Johnstown, Pa. .....Apr. 8
Apr. 13 Maryland .....Apr. 8
Adv. Apr. 1 and 8.
Apr. 13 Bridgeton, N. J. .....Apr. 8
Adv. Apr. 8.
Apr. 13 Newton, Ia. .....Apr. 8
Apr. 13 Baird, Tex. .....Apr. 8
Apr. 13 Washington .....Apr. 1
Apr. 13 Baird, Tex. .....Apr. 1
Apr. 13 Louisiana .....Mar. 18
Apr. 13 St. Louis, Mo. .....Mar. 25
Apr. 13 North Dakota .....Apr. 1
Apr. 13 St. George, N. Y. .....Apr. 8
Apr. 13 St. Paul, Minn. .....Apr. 8
Apr. 13 Grand Rapids, Mich. .....Apr. 8
Apr. 13 Towson, Md. .....Apr. 8
Apr. 14 Baltimore, Md. .....Apr. 8
Apr. 14 Bad Axe, Mich. .....Apr. 8
Apr. 14 Abilene, Tex. .....Apr. 8
Apr. 14 North Dakota .....Apr. 1
Apr. 14 Florida .....Mar. 25
Apr. 14 Delaware .....Mar. 25
Apr. 14 Houma, La. .....Apr. 1
Apr. 14 Abilene, Tex. .....Apr. 8
Apr. 14 Grundy Center, Ia. .....Apr. 8
Apr. 14 Brooklyn, N. Y. .....Apr. 8
Apr. 14 Ft. Madison, Ia. .....Apr. 8
Apr. 14 Kenosha, Wis. .....Apr. 8
Apr. 14 Platte City, Mo. .....Apr. 8
Apr. 14 Grand Junction, Colo. .....Apr. 8
Apr. 15 Kenmore, O. .....Apr. 8
Apr. 15 Cedar Rapids, Ia. .....Apr. 8
Apr. 15 Mt. Vernon, Wash. .....Apr. 8
Apr. 15 Virginia .....Apr. 8
Apr. 15 Clarendon, Tex. .....Apr. 8
Apr. 15 Sherman, Tex. .....Apr. 8
Apr. 15 Marion, O. .....Apr. 8
Apr. 15 Big Springs, Tex. .....Apr. 8
Apr. 15 Anderson, Ind. .....Apr. 1
Apr. 15 Birmingham, Ala. .....Mar. 18
Apr. 15 Birmingham, Ala. .....Mar. 11
Apr. 15 Tarrant City, Ala. .....Mar. 18
Apr. 15 North Dakota .....Apr. 1
Apr. 15 Louisiana .....Mar. 25

See proposal advertising on page 138, Advertising Section

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

A list of the Country's principal cities, large and small—

Is a list of the satisfied users of LEADITE.

Leadite Users are Leadite Boosters

EAST or West, North or South, take your pick of the cities—and you'll find many of them on the customer list of Leadite—

The country's principal cities, large and small—the country's representative water works engineers, construction companies and water works departments of industrial plants, railroads and mines are strong for Leadite for jointing cast iron water mains—

Are demonstrating what you will be able to do when you use Leadite—

What, for instance?—

You will do away with the need for caulking—or the need for digging out for large bell holes.

You will be able to use Leadite for all sizes of pipe from 4 in. to 60 in. diameter—under all pressures and conditions—

Give Leadite a trial.

Leadite resists electrolysis.

Leadite does not corrode or rust.

Leadite has been successfully tested and used for over 30 years.

Thousands of miles of pipe jointed with Leadite are in service.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.

1511 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids close		See Eng. News-Record
Apr. 15	Fine, N. Y. Adv. Apr. 1 and 8.	Apr. 1
Apr. 15	Virginia	Apr. 1
Apr. 15	Big Springs, Tex.	Apr. 8
Apr. 15	Sweetwater, Tex.	Apr. 8
Apr. 15	Colorado	Apr. 8
Apr. 15	Wisconsin	Apr. 8
Apr. 15	New York, N. Y.	Apr. 8
Apr. 16	Kaukauna, Wis.	Apr. 8
Apr. 16	Wisconsin	Apr. 8
Apr. 16	Oswego, Kan.	Mar. 25
Apr. 16	Brownsville, Tex.	Apr. 1
Apr. 16	Brownsville, Tex.	Apr. 8
Apr. 16	Ohio	Apr. 8
Apr. 17	Kelso, Wash.	Apr. 8
Apr. 17	Oconomowoc, Wis.	Apr. 1
Apr. 17	Burlington, Wis.	Apr. 8
Apr. 19	Floydada, Tex.	Apr. 1
Apr. 19	Minneapolis, Minn.	Apr. 1
Apr. 19	Boston, Tex.	Apr. 8
Apr. 19	San Diego, Calif.	Apr. 8
Apr. 19	California	Apr. 8
Apr. 19	Hannibal, Mo.	Apr. 8
Apr. 19	Dunbar, W. Va. Adv. Apr. 8.	Apr. 8
Apr. 19	Olympia, Wash.	Apr. 8
Apr. 19	Hastings, Minn.	Apr. 8
Apr. 20	Massachusetts	Apr. 8
Apr. 20	Minnesota	Apr. 8
Apr. 20	North Dakota	Apr. 8
Apr. 20	Maryland Adv. Apr. 8.	Apr. 8
Apr. 20	West Virginia Adv. Apr. 1 and 8.	Apr. 1
Apr. 20	Pennsylvania Adv. Apr. 1 and 8.	Apr. 1
Apr. 20	Birmingham, Ala.	Mar. 11
Apr. 20	Lyons, Kan.	Mar. 25
Apr. 20	New York Adv. Apr. 1 and 8.	Apr. 1
Apr. 21	Freehold, N. J. Adv. Apr. 1 and 8.	Apr. 1
Apr. 21	Greensburg, Pa.	Apr. 8
Apr. 21	North Dakota	Apr. 8
Apr. 22	North Dakota	Apr. 8
Apr. 23	North Dakota	Apr. 8
Apr. 26	California	Apr. 8
Apr. 26	Indianapolis, Ind.	Apr. 8
Apr. 26	Olympia, Wash.	Apr. 8
Apr. 27	Newton, N. J. Adv. Apr. 8.	Apr. 8
Apr. 27	Hondo, Tex.	Apr. 8
Apr. 27	Louisiana	Apr. 8
Apr. 28	Florida	Apr. 8
Apr. 28	Uvalde, Tex.	Apr. 8
Apr. 28	Dickinson, N. D.	Apr. 8
Apr. 28	Mobile, Ala. Adv. Apr. 1 and 8.	Apr. 1
Apr. 30	West Virginia Adv. Apr. 1 and 8.	Apr. 1
May 1	Birmingham, Ala.	Mar. 25
May 1	Florence, Ala.	Apr. 1
May 15	Anderson, Ind.	Apr. 8

Buildings—Commercial

Bids close		See Eng. News-Record
Apr. 9	Urbana, Ill.	Mar. 25
Apr. 9	Lockport, N. Y.	Apr. 8
Apr. 10	Allentown, Pa.	Apr. 8
Apr. 12	Baltimore, Md.	Apr. 8
Apr. 12	Des Plaines, Ill.	Apr. 8
Apr. 12	Wash., D. C.	Apr. 1
Apr. 14	Hastings, Neb.	Apr. 8
Apr. 16	San Antonio, Tex.	Apr. 1
Apr. 20	Lawrence, Kan.	Apr. 8
May 1	Birmingham, Ala.	Apr. 1
May 4	Iowa City, Ia.	Apr. 1
May 6	Thiells, N. Y. Adv. Apr. 8.	Apr. 8

Buildings—Industrial

Bids close		See Eng. News-Record
Apr. 14	Highlands, N. C.	Apr. 1

Buildings—Educational, Religious

Bids close		See Eng. News-Record
Apr. 12	Providence, R. I.	Apr. 8
Apr. 13	Jacksonville, Fla.	Mar. 25
Apr. 13	Chicago, Ill.	Apr. 1
Apr. 13	Decorah, Ia.	Apr. 8
Apr. 14	Fordson (Detroit P. O.), Mich.	Mar. 4
Apr. 15	Tuscaloosa, Ala.	Mar. 25
Apr. 15	Lawrence, Kan.	Mar. 25
Apr. 15	Canton, O.	Apr. 1
Apr. 15	Sherbrooke, Que.	Apr. 8
Apr. 15	Seward, Neb.	Apr. 8
Apr. 17	Cleveland, O.	Apr. 1
Apr. 19	Montrose, N. Y.	Apr. 8
Apr. 20	Des Moines, Ia.	Apr. 8
Apr. 21	Richmond Hill (Ind. br. Jamaica), N. Y.	Apr. 8
Apr. 22	Pelham (Ind. br. New York), N. Y.	Apr. 8
Apr. 22	Greenville, O.	Apr. 8
Apr. 22	Abbeville, La.	Apr. 8
Apr. 23	Minneapolis, Minn.	Apr. 8
Apr. 27	New York, N. Y.	Apr. 8
Apr. 28	Corning, N. Y.	Apr. 8
Apr. 28	Bowling Green, O.	Apr. 1

Federal Government Work

Bids close		See Eng. News-Record
Apr. 12	Dredging — Hartford, Conn.	Mar. 11
Apr. 12	Levee—Memphis, Tenn.	Mar. 25
Apr. 12	Remodeling—Santa Barbara, Calif.	Mar. 25
Apr. 12	Wire, etc.—Memphis, Tenn. Adv. Apr. 1 and 8.	Apr. 1
Apr. 12	Extension—Santa Barbara, Calif.	Apr. 1
Apr. 13	Remodeling—Chester, Pa.	Mar. 25
Apr. 13	Road—Idaho	Apr. 8
Apr. 14	Quarters—Astoria, Ore.	Apr. 1
Apr. 15	Earthwork—New Orleans, La.	Mar. 25
Apr. 15	Road—California	Apr. 8
Apr. 15	Reservoir—Dix, N. J. Adv. Apr. 8.	Apr. 8
Apr. 16	Dredging—Galveston, Tex. Adv. Mar. 18 to Apr. 8.	Mar. 18
Apr. 16	Quarantine Station—Mobile, Ala.	Mar. 25
Apr. 16	Mezzanine, etc.—Syracuse, N. Y.	Apr. 1
Apr. 19	Extension—Macomb, Ill.	Apr. 1
Apr. 20	Turbine, etc.—Nebraska and Wyoming	Mar 18
Apr. 20	Addition—Newark, N. Y.	Apr. 1
Apr. 20	Cable—Buffalo, N. Y. Adv. Apr. 1 and 8.	Apr. 1
Apr. 20	Fill—Gulfport, Miss.	Apr. 8
Apr. 20	Steel—San Francisco, Calif. Adv. Apr. 8.	Apr. 8
Apr. 21	Wicket Irons—St. Louis, Mo. Adv. Apr. 8.	Apr. 8
Apr. 21	Road—Nevada	Apr. 8
Apr. 21	Hospital—Wash., D. C. Adv. Mar. 25 to Apr. 8.	Mar. 25
Apr. 21	Extension—Oklahoma City, Okla.	Apr. 1
Apr. 21	Storage—Pensacola, Fla.	Apr. 1
Apr. 22	Granite—Wash., D. C. Adv. Mar. 25 to Apr. 8.	Mar. 25
Apr. 22	Dredging—Ft. Mifflin (mail Essington), Pa.	Apr. 1
Apr. 22	Remodeling—Wash., D. C.	Apr. 8
Apr. 22	Brush and Poles—Memphis, Tenn.	Apr. 1
Apr. 23	Gate Buildings—Phila., Pa. Adv. Apr. 8.	Apr. 8
Apr. 27	Recreation, etc. — Pennsylvania	Apr. 1
Apr. 28	Catamarans—Norfolk, Va.	Apr. 1
Apr. 28	Quarters—Wash., D. C.	Apr. 1
Apr. 28	Quarters—Chelsea, Mass. Adv. Apr. 8.	Apr. 8
Apr. 29	Excavation, etc.—Easton, Wash.	Apr. 1
Apr. 30	Cranes—Wash., D. C. Adv. Apr. 1 and 8.	Apr. 1
May 4	Power Plant—Wash., D. C. Adv. Apr. 8.	Apr. 8
May 5	Dredging—South Boston (sta. Boston), Mass.	Mar. 25

Unclassified

Bids close		See Eng. News-Record
Apr. 9	Special Work—New York, N. Y.	Apr. 1
Apr. 12	Power Plant Equipment—Richmond, Ind.	Mar. 25
Apr. 13	Culverts—Omaha, Neb.	Apr. 1
Apr. 15	Elevators—Saskatchewan	Apr. 8
Apr. 15	Lighting System—Oakhurst, N. J. Adv. Apr. 8.	Apr 8
Apr. 20	Unloader—New Orleans, La.	Mar. 25
May 5	Tunnel—San Francisco, Calif. Adv. Apr. 1 and 8.	Apr. 1
May 14	Tunnel—Oakland, Calif. Adv. Apr. 8.	Apr. 8
May 18	Signal System—Buffalo, N. Y.	Apr. 1

Materials

Bids close		See Eng. News-Record
Apr. 12	Binder Stone or Gravel—Minneapolis, Minn.	Apr. 8
Apr. 12	Crushed Rock — New Jersey	Apr. 1
Apr. 13	Timber—New Orleans, La.	Apr. 8
Apr. 13	Pipe, etc.—Crowley, La.	Apr. 8
Apr. 19	Road Oil—Minneapolis, Minn.	Apr. 8
Apr. 20	Asphalt, etc.—Newton, N. J. Adv. Apr. 8.	Apr. 8
Apr. 20	Road Signs—Iowa	Apr. 1
Apr. 30	Road Oil—Nashville, Tenn.	Mar. 25

News of New Work

Waterworks

Proposed Work

Mass., Melrose (br. Boston)—Voted $20,000 bonds, mains in various streets. Engineer not selected.

Conn., Mansfield — State plans 500,000 gal. water supply to furnish both Institute of Feeble Minded and Connecticut Agricultural College. $150,000. C. M. Saville, 1026 Main St., Hartford, engr.

Va., Louisa — Soon takes bids waterworks improvements, incl. 75,000 gal. steel tank on 100 ft. steel tower, 6 in. mains, etc. McCreary Eng. Co., Citizens Southern Bldg., Atlanta, Ga., engrs.

W. Va., Williamson — Election Apr. 24, $240,000 bonds, waterworks. W. F. Hatfield, mayor.

Ga., Atlanta — Voted $500,000 bonds, waterworks. W. Sims, mayor. Noted Feb. 25.

Fla., Fort Myers—Voted $400,000 bonds, extending mains in various streets. O. M. Davison, mayor. Noted Mar. 18.

Miss., Waynesboro—City retained H. A. Mentz, engr., Hammond, La., to prepare plans and specifications waterworks and sewer improvements. $60,000 bonds voted.

Tenn., Algood—Making preliminary plans new waterworks. $20,000. C. J. Hampton, mayor. Engineer not announced.

Tenn., Riverview—See "Sewers."

O., Cincinnati—Hamilton Co. plans 82,349 ft. 6- to 8-in. mains in Water Supply Line 28, Dist. 7, (Fruit Hill and Forrestville), $192,513. L. C. Boyatt, Court House, engr.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Ill., Galesburg—Plans clearing ground, artificial lake, dam, purification plants, pumps and additional mains. $1,000,000. A. L. Richey, City Hall, engr.

Kan., Eldorado—Defeated $450,000 bonds, waterworks improvements, incl. dam, 16 and 18 in. c.i. pipe, etc. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted Mar. 11.

Kan., Ft. Scott—Made preliminary plans waterworks improvements. $75,000. R. Tobs, Ft. Scott, engr.

Kan., Hillsboro—Voted $102,600 bonds, waterworks. F. E. Devlin Eng. Co., 614 Bitting Bldg., Wichita, engrs.

Mo., Bronson—Making surveys and plans complete waterworks. To exceed $15,000. Alexander Eng. Co., Woodruff Bldg., Springfield, engrs.

Tex., Olney—Voted $15,000 bonds, waterworks, extensions, additional mains, etc. M. T. McCracken, mayor.

Tex., Premont — Election soon $30,000 bonds, water system with 100 ft. steel tower and 8 in. mains in various streets. Address R. R. Mullen, Premont, judge.

Calif., Anaheim—E. B. Merritt, city clk. soon takes bids 1,000 ft. 16 in. and 5,000 ft. 4 in. Class C c.i. pipe in 12 or 16 ft. lengths with Class D fittings, etc.

Calif., Anaheim—Plans to purchase one 1,200 to 1,600 gal. deep well pump with one vertical, 440 volt. 3-phase, 50 cycle approximately 960 r.p.m. motor. E. B. Merritt, city clk.

Calif., Beverly Hills — B. J. Firminger, city clk. soon takes bids furnishing and installing 1,390 ft. 6 in. double dipped standard pipe.

Calif., Garden Grove—Orange Co. Water Works Dist. 3, making plans 125,000 gal.

See classified index on bids wanted on page 199

Quick Construction For Rush Work

Where early use is demanded of public construction, where an owner insists upon prompt occupancy or where work must be put in service promptly, ordinary concrete will not do.

In such cases it is profitable to use methods by means of which you can obtain strong concrete in *3 days* and better than ordinary concrete forever after with standard *Universal* cement, the same quality *Universal* as regularly used.

Detailed information on the methods for obtaining this time-saving, strong concrete in *3 days* is given in a folder which will be sent on request to

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Waterworks (Continued)

steel tank on 95 ft. steel tower, etc. W. K. Hillyard, Courthouse, Santa Ana, engr. Noted Mar. 11.

Calif., Monticeto — Monticeto Co. water Dist. voted $676,000 bonds extending water system and tunnel work through mountains. Noted Mar. 11.

Calif., Orange—Plans to purchase 1,000 ft. 6 in. Class "B" c.i. bell and spigot water pipe. C. D. Lester, city clk. Noted Mar. 4.

Calif., San Diego — See "Streets and Roads."

Bids Desired

R. I., Providence—Apr. 14, by Water Bd., City Hall, 41 x 41 ft., brick, granite and steel, superstructure for gate house of Scituate Dam and 10 x 18 ft. siphon chamber of Scituate Aqueduct, in Scituate. $15,000. City Engineer, 661 Westminster St., engr.

Conn., Norwalk — Apr. 26, by Dist. Comrs., 2nd Taxing Dist., City Hall, c.i. mains, etc. in various streets. N. S. Hill, Jr., 112 East 19th St., New York City, consult. engr.; adv. E. N.-R. Apr. 8.

N. Y., Kingston—Apr. 22, by Bd. Water Comrs., City Hall, c.i. pipe and special, Contr. A; and valves, Contr. B. Sanborn & Bogert, 30 Church St., New York City, consult. engrs.; adv. E. N.-R. Apr. 8.

N. Y., Nyack—Apr. 29, by Bd. Village Water Comrs., W. P. Bugbee, clk., improving waterworks, incl. filter plant, tank and tower, etc. N. S. Hill, Jr., 112 East 19th St., New York City, consult. engr.; adv. E. N.-R. Apr. 8.

N. J., Trenton—Apr. 13, by Mercer Co., steel water tank and line at workhouse, Moore's Station, here. $10,000. F. C. Carstarphen, 901 Edgewood Ave., Trenton, engr. Noted Mar. 8.

Pa., Saltsburg—Apr. 20, by R. L. McIlwain, secy. Boro Council, filtration plant and appurtenances. Hudson & Myron, 802 Wabash Bldg., Pittsburgh, engrs.; adv. E. N.-R. Apr. 8. Noted Mar. 11.

Fla., Key West—Apr. 20, by Bd. Trustees Monroe Co. Water Supply Dist., pipe lines and pumping equipment for bringing fresh water to Key West over the Florida Keys; adv. E. N.-R. Apr. 8. Noted Mar. 11.

Miss., Isola—Apr. 13, by City Clerk, completing waterworks and improving electric light plant. $15,000. H. A. Mentz, Hammond, La., engr.

O., Cleveland—Apr. 14, by Comrs. Cuyahoga Co., 6,500 ft. 8- to 12-in. c.i. mains in Wooster Pike, Impvt. 852. $20,000. F. Williams, Court House, engr.

Neb., Hastings — Apr. 12, by W. S. Watson, engr., Hastings, rein.-con. reservoir at power plant, for City. $30,000.

Neb., Hastings—Apr. 15, by Water Com., rein.-con. reservoir. $27,750.

N. D., Harvey—Apr. 19, by L. W. Miller, city aud., 12,800 ft. 8 in. c.i. pipe, 2 centrifugal pumps, power house, well, etc. $20,000. T. R. Atkinson, Bismarck, engr.

Ark., Little Rock — See "Contracts Awarded."

Calif., Los Angeles—Apr. 19, by Supervs. Los Angeles Co., centrifugal pump for well for 40 acre tract at county farm.

Bids Received

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Mar. 30, mains, etc., in 32nd, 81st Aves., Dartmouth, Loubey, Pansy Sts., etc., here, from B. Costanzo, 2777 Myrtle Ave., Brooklyn, $10,400. Noted Mar. 25.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, Mar. 30, 16 and 24 in. pipe lines in Northeast Sect., Contr. 793, from M. and J. B. McHugh, 892 North Markoe St., $228,271 and $234,048.

Md., Baltimore—Bd. Awards, Mar. 31, excavating trenches in Western Dist. for Bureau Water Supply, from M. L. Quinn, 5308 York Rd., $34,965. Noted Mar. 25.

Mich., Detroit—Bd. Water Comrs., 35,315 ft. 6- to 16-in. c.i. mains, etc., Contr. 1926-4, and 40,820 ft. 6- to 16-in. Contr. 1926-6, from Robeck-Humphreys Co., 408 Securities Bldg., $20,787 and $26,912 respectively; 40,795 ft. 6- to 16-in. Contr. 1926-5, from J. W. Toyne, City Hall, South Bend, Ind., $25,250. Noted Mar. 11.

Wis., Milwaukee—Central Bd. Purchases, J. W. Nicholson, ch. buyer, Mar. 23, from U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., 2,279.705 tons plain straight pipe at $46.90 per ton, 94.50 tons lugged pipe $66.90, and 71.664 tons special castings $160. Noted Mar. 18.

Wis., Milwaukee — J. W. Nicholson, ch. buyer Central Bd. Purchases, Mar. 31, from Chapman Valve Mfg. Co., 650 West Lake St., Chicago, Ill., one 54 in. gate valve at $2,543 each, three 48 in. $2,079, three 42 in. $1,552, twelve 30 in. $662, and two 20 in. $283, total $28,132. Noted Mar. 25.

Tex., Floresville—Waterworks improvements, incl. large mains, pumps, etc., from J. W. Moore, Eastland, $26,177. Noted Mar. 4.

Tex., Greenville—Class B c.i. pipe, from A. D. Duck, Greenville, $54,256.

Contracts Awarded

N. Y., Saugerties—Bd. Water Comrs., 46 Market St., 1,674 tons 6- to 16-in. c.i. pipe to Warren Fdry. & Pipe Co., Phillipsburg, N. J., at $47.90 per ton; construction, to F. Hartman, Charlottesville, Va., $74,900. Noted Feb. 25.

D. C., Wash. — Washington Suburban Sanitary Comn., Evans Bldg., New York Ave. N. W., watermains and owners Constr. 58-W & S and 59-W & S, to W. H. Angle, Hagerstown, Md., $137,357 and $52,796 respectively. Noted Mar. 4.

Va., New Market—G. A. Woods, mayor, and Town Council, waterworks improvements, incl. Ambursen Dam, etc., to Boyd & Goforth, Charlotte, N. C., $91,243. Noted Mar. 25.

O., Avon Lake—Bd. Comrs., Lorain Co. (Elyria) mains in Sewer Dist. 1, to F. L. Cothrell, 1706 Jefferson Ave., Toledo, $118,000. Noted Jan. 7.

Wis., Milwaukee — Dept. Pub. Wks., R. Stoelting, comr., 25 m.g. pumping engine for Riverside Pumping Station, to Allis Chalmers Mfg. Co., National Ave., West Allis, $222,800. Noted Mar. 25.

Mo., St. Louis — G. J. Dietz, comr. supplies, City Hall, to Builders Iron Fdry., 9 Codding St., Providence, R. I., 60 controllers for filter plant at Howards Bend, St. Louis Co. $40,017; 2 venturi meter tables $3,860, 2 venturi registers complete $2,212; one master controller $1,700; to F. B. Leopold Co., Inc., 422 1st Ave., Pittsburgh, Pa., 20 marble top tables $10,800. Grand total $58,589. Noted Mar. 18.

Mo., Sedalia—City Water Co., 7.5 mi. 20 in. c.i. pipe line from Spring Fork Dam, to Cook & O'Bryan, 430 Ry. Exch. Bldg., Kansas City; and furnishing above pipe, to U. S. Cast Iron Pipe & Fdry. Co., Bessemer, Ala.

Ark., Little Rock—Arkansas Water Co., 112 East 7th St., S. R. Brough, supt., will lay new mains connecting city with North Little Rock system, incl. 16 in. c.i. mains to connect with 12 in. mains on this side, 16 in. steel pipe across Arkansas River, and 3,000 ft. 16 in. c.i. mains in North Little Rock, will be done by day labor. $50,000. Work involves 1,000 ft. 16 in. steel and 3,500 ft. 16 in. c.i. pipe. Will also install 5,000 ft. 12 in. rein.-con. mains for city high pressure system and 1.5 m.g. pump.

Tex., Abilene—Class "B" filtration plant, to R. J. Estep & Co., Praetorian Bldg., Dallas, $55,000. Noted Mar. 11.

Tex., Greenville—City, c/o M. C. Hale, secy., 3 m.g. filtration plant, to Natl. Water Purifying Co., Kaufman, $46,060.

Okla., Bethany—F. H. Stockton, city clk., new waterworks, to E. W. Baker, 1116 West Main St., Oklahoma City, $33,268. Noted Nov. 5.

Okla., Tulsa—Water Bd. Comrs., waterworks improvements, incl. Mohawk high-pressure water line, to Standard Paving Co., 1742 East 6th St., $245,000. Noted Feb. 11.

Wash., Tacoma—City Comrs., replacing decayed mains on overflow lines with electric welded steel pipe, to Birchfield Boiler Co., 2503 East 11th St., $19,236.

Calif., Ontario—City Council, 10 m.g. concrete lined reservoir, 20,000 cu.yd. excav., 19,000 cu.yd. fill, etc., to Herz & Co., San Bernardino, $50,971. Noted Dec. 10.

Calif., San Rafael — Marin Municipal Water Dist., welded steel pipe, to Western Pipe & Steel Co., 444 Market St., San Francisco, $153,485.

B. C., Vancouver—C. Brackenridge, City Hall, 2,100 ft. 36 in. and 5,600 ft. 26 in. steel riveted mains in various streets, to Hodgson, King & Marble, 626 Pender St. W., $39,920.

Sewers

Proposed Work

Mass., Melrose (br. Boston)—Voted $30,000 bonds, sewers and surface drainage. Engineer not selected.

Ga., Atlanta — Voted $2,000,000 bonds, sewers in various streets. W. Sims, mayor. Noted Feb. 25.

Fla., Fort Myers—Voted $815,000 bonds, sewers in various streets. O. M. Davison, mayor. Noted Mar. 18.

Miss., McComb—Election Apr. 9, $40,000 bonds, disposal plant, Imhoff tank and extending sewers in various streets. H. A. Mentz, Citizens Bank Bldg., Hammond, La., engr. Noted Mar. 25.

Miss., Waynesboro—See "Waterworks."

Tenn., Riverview—Election Apr. 9, $38,000 bonds, sewerage system and water mains, etc., in various streets.

Ky., Madisonville — Made preliminary plans new sewage disposal plant, incl. 9,000 ft. 21 in. vitr. clay pipe. $35,000. F. C. Newcom, Madisonville, engr.

O., Youngstown—Bd. Control soon takes bids 2 mi. 18- to 42-in. sanitary sewer in Bears Den Dist. $100,000. R. E. Turner, Youngstown, eng. comr.

Mich., Albion—Making preliminary plans sanitary sewers in various streets and disposal plant. $100,000. Burns and McDonnell, 401 Interstate Bldg., Kansas City, Mo., engrs.

Ill., Chicago—Made plans 10 mi. 3 to 12 ft. concrete or brick sewers in Clearing Dist. $3,500,000. H. E. Hudson, Room 207, City Hall, engr.

Ill., Chicago—Bd. Local Impvts. plans 7.5 mi. 3 ft. diam. concrete and brick sewers in Bertram Ave., $2,750,000; and 2 mi. 6 and 7 ft. diam. brick relief sewers in 74th St., $740,000. H. E. Hudson, Room 207, City Hall, engr.

Ill., Chicago — Bd. Local Impvts. soon takes bids 2.5 mi. 5 and 6 ft. brick sewers in Peterson Ave. $185,000. H. E. Hudson, City Hall, engr.

Ill., Melrose Park — Takes bids about July 1, concrete and tile sewers in various streets. $275,000. W. Thomas, City Hall, Oak Park, engr.

Ia., Cedar Rapids—Making plans sewer improvements, incl. disposal plant, sewage pumping station, 3 mains, etc. $90,000. L. J. Storey, city clk.

Neb., Columbus—Election soon $75,000 bonds, sewers in various streets.

Neb., Lincoln — Plans election $75,000 bonds, sewers in Meridian Rd. between 19th St. and Loup River, and 18th Ave. and Loup River. W. Becker, Columbus, clk.

Tex., Olney — Voted $30,000 bonds, new sewers in various streets. Montgomery & Ward, 545 Harvey Snider Bldg., Wichita Falls, engrs.

Okla., Medford — Plans new sewerage system. $25,000. E. T. Archer & Co., New England Bldg., Kansas City, Mo., engrs.

Okla., Prague — Made plans sanitary sewers in 4 mi. various streets. $25,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Feb. 4.

California—Cities of Santa Ana, Orange, Anaheim, Placentia, Habra, Fullerton, Garden Grove, etc., making preliminary plans 2,700 lin.ft. 42 in. c.i. pipe laid in ocean, addition to screening plant of two screens, etc. $355,000 bond election soon for same. Burns-McDonnell-Smith Eng. Co., Rives-Strong Bldg., Los Angeles, engrs.

Calif., Arroyo Grande—Made plans 20,000 lin.ft. 6 and 8 in. sewer and 6,000 lin. ft. 4 in. house connections, etc., in various streets. To exceed $25,000. Burch & Beck, Commercial Bank Bldg., San Luis Obispo, engrs.

Calif., Bakersfield—Made plans 11,967 ft. 6 and 8 in. vitr. sewer, etc. in A and Palm Sts. W. D. Clark, city engr.

Calif., Marysville — City rejected bids sewer in F St.

Calif., San Francisco — Plans to appropriate $1,291,000 extending sewers in various streets. M. M. O'Shaughnessy, city engr.

Ont., Toronto—Scarborough Twp. plans 20,000 ft. vitr. clay and concrete sewer in Eastwood and Kilmer Ave. area. $150,000. C. E. Fraser, 1361 Kingston Rd., engr.

Ont., Toronto—York Twp., plans 1,900 ft. 6- to 12-in. vitr. tile sewer in Robina and Vimy Ridge Aves., $10,535, 2,250 ft. Weston Rd., $13,230, private drain connections on Holmesdale Crescent $2,400. F. B. Goedike, 40 Jarvis St., engr.

Bids Desired

Me., South Portland—May 3, by W. E. Brown, secy. South Portland Sewerage Dist., City Hall, constructing Sect. 2 of trunk sewer, Contr. B. G. H. Minott, pres.; adv. E. N.-R. Apr. 8.

N. Y., Brooklyn — Apr. 14, by J. A. Guider, pres. Brooklyn Boro, Boro Hall, relief sewers in 78th St., 5th and Narrows Aves.; reconstructing and enlarging sewer in 79th St.; sanitary and storm sewers in East 9th St. between Quentin Rd. and Kings Highway, and storm sewers in East 9th St. between Kings Highway and Avenue R, East 10th St. and 1st Court; also sewers in East 8th St. and Avenue O.

N. J., Oakhurst—Apr. 14, by Interlaken Boro Sewerage Dists. 1, 2, 3 and 4, Ocean Twp., Monmouth Co., H. M. Phoenix, chn., Mechanics Hall, settling tank and sea outlet into Atlantic Ocean, at Lock Arbour, here. J. W. Seaman, 210 Bway., Long Branch, engr.; adv. E. N.-R. Apr. 8.

Pa., Johnstown—See "Streets and Roads."

Md., Baltimore—Apr. 14, by Bd. Awards, constructing Sludge Drying Beds 11 to 14

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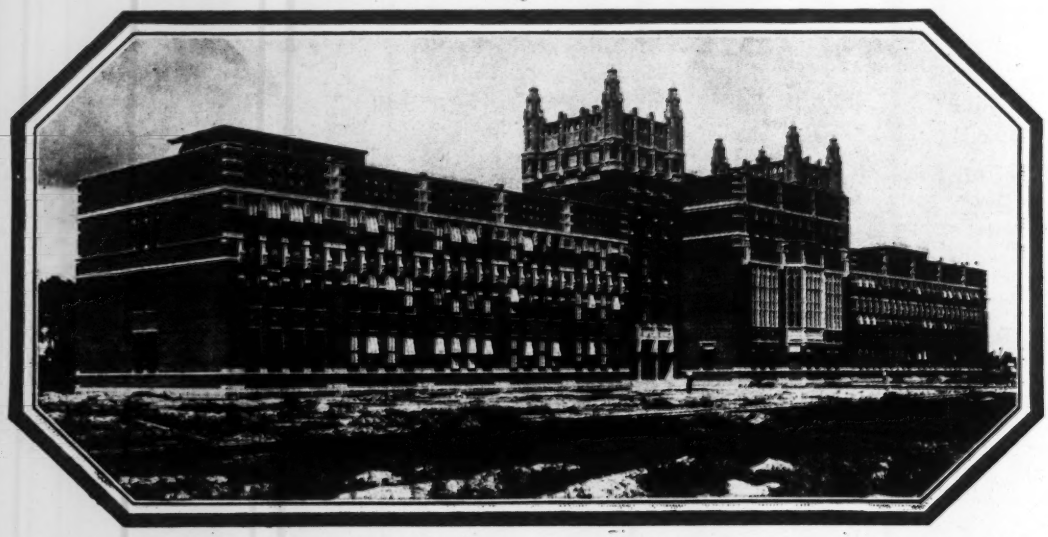

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Sewers (Continued)

(inclusive) at Back River Sewage Treatment Works, 57,200 cu.yd. excav., 45,100 cu.yd. rolled embankment, 68,490 lb. reinforcing bars, 120 tons c.i. pipe, and 2,500 ft. industrial railroad track, etc. M. J. Rourk, 311 Courtland St., sewage engr.

Mich., Muskegon — Apr. 20, by E. R. Cockerill, supt. Muskegon Co. Drains, City Hall, Muskegon Heights, Ruddiman Creek Drain, 5,386 ft. 18- to 60-in. rein.-con. vitr. clay or segmental block pipe, etc., here. $75,000. M. M. Buck, Union Bank Bldg., engr. Noted Feb. 18.

Ill., Bloomington — May 6, by Bd. Trustees Bloomington and Normal Sanitary Dist., J. W. Harber, pres., 422 Unity Bldg., sewage treatment plant and appurtenances. Taylor & Woltmann, 225 Unity Bldg., engrs.; adv. E. N.-R. Apr. 8.

Ill., Chicago — Apr. 14, by Bd. Local Imprvts., 12- to 27-in. tile sewers in various streets. $150,000. H. E. Hudson, City Hall, engr.

Wis., Beloit—Apr. 14, by G. E. Heebink, City Hall, engr., 17,120 ft. 8- to 21-in. concrete or vitr. pipe sewers, etc., in various streets for city. Noted Jan. 14.

Ia., Audubon—Apr. 13, by City, J. L. Rippey, city clk., sewage disposal plant, rock filter, Imhoff tanks and 12,000 ft. 18 in. outlet sewers in various streets. $60,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs. Noted Mar. 4.

N. D., Harvey—Apr. 19, by L. W. Miller, city aud., 4,000 lin.ft. 24 in., 3,000 lin.ft. 18 in. and 3,000 lin.ft. smaller pipe, etc., in various streets. $25,000. T. R. Atkinson, Bismarck, engr.

Tex., Corsicana — Apr. 20, by J. P. Welch, city secy., extending sewerage system. W. W. McClendon, city engr.; adv. E. N.-R. Apr. 8.

Okla., Okemah—Apr. 19, by J. S. Price, city clk., 21,200 ft. 8- to 12-in. vitr. clay lateral sewers in Atlanta, Date, Plum, 5th, Columbia, Cherry and Poplar Sts. $32,316. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Calif., North Sacramento—City Trustees taking bids 62,700 lin.ft. 6- to 15-in. vitr. sewers, etc., in various streets. $70,000 or more. Noted Mar. 18.

Calif., San Diego — See "Streets and Roads."

Calif., San Francisco—Apr. 21, by Bd. Pub. Wks., sewer in 43rd St., 620 lin.ft. 2 x 3 ft., 3,400 lin.ft. 2 ft. 6 in. and 3 ft. 9 in., and 1,244 lin.ft. 3 ft. x 4 ft. 6 in. rein.-con. sewer with portion of invert lined with vitr. brick, also 273 lin.ft. 8 and 18 in. iron stone pipe, etc. $70,000. M. M. O'Shaughnessy, city engr.

B. C., Vancouver — See "Contracts Awarded."

Bids Received

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, Mar. 31, general contract, 1 story, basement and sub-basement, 64 x 139 ft., brick and steel encased in concrete pumping station, at Northeast Sewage Treatment Works, Wheatsheaf Lane east of Richmond St., from Evans-Steele Inc., 2217 Chestnut St., $329,876; mechanical equipment, from C. M. Brown & Co., Lafayette Bldg., $253,000; and electrical equipment, from Ross Electric Constr. Co., 106 Fairmont St., $95,800. Noted Mar. 18.

La., Baton Rouge—Comn. Council, Mar. 24, sanitary sewers in McCall and Lake Hills subdivision, from C. B. Stewart, Baton Rouge, $17,500. Noted Mar. 18.

Minn., St. Paul — A. E. Eggert, city purch. agt., Mar. 23, 13,852 lin.ft. 12- to 66-in. sewer in St. Paul Ave. Sewer Dist. 2, Div. B, from Thornton Bros., 318 Endicott Bldg., $93,887. Noted Mar. 18.

Calif., Los Angeles — From Chutuk & Vukojevich, 1506 Pleasant St., sewer in portion of Sawtelle Blvd. $37,165, and 22,355 ft. house sewers $0.99 per ft.; from G. M. Wucetich, 1057 North Chicago St., sewer in portion of Cantiela Ave. $25,635, and 7,920 ft. house sewers $0.92; from M. Miller, 208 West 2nd St., sewer in Hyde Park Blvd. between Van Ness Ave. and West Blvd., $36,799, and 17,148 ft. house sewers $1.26, also sewer in Arlington, 2nd and 3rd Aves., etc., $13,571, and 15,892 ft. house sewers $0.90; from L. Militich, 610 West 64th St., 62,790 ft. 6- to 12-in. vitr. sewer in Milton Ave. $74,726, also storm drain in Beverly Blvd. between La Brea Ave. and Highland Ave., $50,000. Noted Feb. 25 and Mar. 25.

Contracts Awarded

N. Y., New York — W. J. Flynn, acting pres. Bronx Boro, Crotona Park, Tremont and 3rd Aves., sewers in East 22nd St., to C. Turiano Contg. Co., 3185 East Tremont Ave., $31,389; Warring Ave., to C. E. Farrell Contg. Co., 1981 Pilgrim Ave., $2,290; Truxton St., to Slack & Slack, 143 Westchester Sq., $11,551; in Randall Ave. and receiving basins in Warring and Laconia Aves., to F. Spedero, 3185 East Tremont Ave., $3,963 and $1,130 respectively. Grand total $50,323. Noted Apr. 1.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, to J. Hastie, 5720 Virginia Rd., branch sewer in Ashville St. $3,904, Decatur Ave. $4,035, and Brill St. $9,542, to Perna Engineering & Contg. Co., 362 North 65th St., Caster St. $5,053, to De Mayo Bros., 8175 Hutchinson St., Comly St. $10,802, to J. J. McHugh, 1617 Race St., Cottman St. $5,460, to P. Pinciotto, 4103 Roosevelt Blvd., Devereaux St. $39,304, to F. and A. J. Ellis, 4th and Wyoming Sts., 11th St. $23,354, to Vattieri & Pontarelli, 523 Rising Sun Lane, James St. $1,976, Large St. $4,534, Longshore St. $13,788, Sanger St. $10,347, Loretto St. $10,233, Rowland St. $7,908, and Marsden St. $3,245, to E. F. Bennis, 825 East Washington Lane, Moorland St. $22,272, to A. Mattia, 310 North 65th St., Pickwick St. $2,468, and Thompson St. $4,725, to A. J. Henderson, 825 East Washington Lane, Pittville St. $8,462, to A. DiSandro & Son, 3906 North 5th St., Sanger St. between Fontenoc and Loretto Sts. $4,515, to A. Bonitatibus, 300 West Mt. Pleasant Ave., 17th St. $18,581, to A. Frenzi, 513 High St., 20th St. $20,787, to A. Perna & Son, 752 South 10th St., Upland Way $8,042; to F. T. Buckins, 4050 Kensington Ave., main sewer in Tulip St. $45,723, and to J. and R. Lombardi, Lincoln Bldg., Greenwood St. $45,975. Grand total $335,036.

W. Va., Morgantown—W. E. Brooks, city mgr., sewers in various streets, to B. M. Chapin Constr. Co., Morgantown, $30,831. Noted Mar. 18.

Fla., Wauchula—Storm sewers in various streets, to E. M. Scheflow Co., Wauchula, $78,000.

O., Akron — F. Peters, dir. Pub. Serv., (*e. e. means engrs. est.*) 4,700 ft. 8- to 36-in. vitr. clay sewer in Diagonal Rd. et al., and 815 ft. 18 in. in West Market St., to McCourt Constr. Co., 369 South Main St., $28,804 and $13,019 respectively, e. e. $38,800 and $16,800 respectively; 1,830 ft. 8- to 15-in. in Elinor and Norton Sts. and 3,750 ft. 8- to 30-in. in Lucille St. et al., to Shullo & De Luca Constr. Co., 140 North Summit St., $8,390 and $16,595 respectively, e. e. $9,200 and $22,100 respectively; 1,140 ft. 8 in. in Spring and Stuber Sts., to F. A. Jordano, 1232 Andrus St., $3,710, e. e. $4,400. Grand total $70,518. Noted Apr. 1.

O., Cleveland—For 1,925 ft. 12- to 24-in. vitr. tile sewers in Delora Ave., and 360 ft. 12 in. in West 41st St., to E. Cesa, 2462 Baldwin Rd., $6,194 and $1,090 respectively; 600 ft. 3 C brick, and 1,565 ft. 12- to 24-in. vitr. tile sewer in East 53rd St., to Manson Co., Engineers Bldg., $14,919; 350 ft. 2 C brick, and 1,050 ft. 12-in. vitr. tile sewer in East 39th St., to Amata Constr. Co., 5910 Kinsman Rd., $8,187; sewer in Mohican Ave., to J. B. Lynn Constr. Co., 16311 Saranec Rd., $4,540; 1,950 ft. 15- to 24-in. vitr. tile sewer in Elsienna Ave., to A. J. Galvin, 16509 Clare Ave., Lakewood, $4,415; and 2,175 ft. 12- to 24-in. vitr. tile sewer in Caine Ave., to Angelo Marra Co., Engineers Bldg., $9,765. Grand total $49,110.

Wis., Milwaukee — J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., two 2,500 gal. motor operated, float controlled, centrifugal pumps for Dillard Ave., low level sewage booster station, to Yeomans Bros. Co., 1433 Dayton Ave., Chicago, Ill., $9,560. Noted Mar. 25.

Kan., Lyons—Sewers in various streets, to Gjeelefeld & Chapman Co., Forest City, $31,400.

Kan., Mankato — City Clerk, sewers in various streets, and disposal plant, to Reed & Wheelock, Clay Center, $25,579.

Mo., Kansas City—Bd. Pub. Wks., City Hall, sanitary sewers in Blue River Dist. 1, to Whitmire Constr. Co., North Kansas City, $247,961; and Dist. 2, to Chanute Constr. Co., 200 Walsix Bldg., $68,132. Noted Mar. 4.

Tex., Alice—Complete sewerage system, to Kirkwood, Wharton & Lee, 121 Commerce St., San Antonio, $50,000. Noted Mar. 18.

Tex., Waco — Sewage treatment plant, general contract, to J. E. Johnson, Waco, $145,277; piping and sluice gates complete, to McCall Eng. Co., Waco, $36,450; motors and compressors, to San Antonio Machine Supply Co., 325 North Center St., $15,903; 3 centrifugal pumps complete, to Industrial Electric Co., 505 Exposition Bldg., Dallas, $3,559; 2 diaphram type sludge pumps complete, and 3 rotary sludge drag with clarification tanks complete, to Dorr Co., 310 South Michigan Blvd., Chicago, Ill., $3,000 and $12,060 respectively; 2 horizontal sludge drags with pre-sedimentation tanks complete, to Link Belt Co., Hunting Park opposite Nicetown St., $3,960. Grand total $220,209. Noted Apr. 1.

Tex., Wichita Falls—Sewage treatment works, incl. North Side River Syphon, pumping station, force mains and screen chamber, 2 story settling tanks, sludge drying beds, dosing tanks and equipment, trickling filter and equipment, final settling tank, mains, operators house, etc., to Callahan-Whitham-McFarlane, Wichita Falls, $267,800. Noted Jan. 28.

S. D., Sioux Falls—City Comrs., sewage disposal plant, incl. Dorr mechanism, to Sioux Falls Constr. Co., 267 Boyce & Greeley Bldg., $559,452. Noted Mar. 4.

Wash., Longview—Storm and sanitary sewers in L. I. D. 14 and 12, to McAuliffe & Whitney, Longview, $11,064 and $193,256 respectively; and L. I. D. 13, to F. A. Keasal Co., 1004 North Cushman St., $10,067. Grand total $214,387. Noted Mar. 18.

Calif., Los Angeles—Storm drain in La Brea Ave. between 1st and 9th Sts., etc., to United Concrete Pipe & Constr. Co., P. O. Box 6, Ventura, $66,000. Noted Mar. 25.

B. C., North Burnaby — Municipality, sewers and lateral connections in various streets, to N. Cosco, 1174 Bway., West Vancouver, $23,825; to Harrison & Lamond Constr. Co., Bank of Nova Scotia Bldg., Vancouver, $18,050, and to J. W. Kelly, 510 Boundary Rd., Burnaby, $14,326. Grand total $56,201.

B. C., Vancouver—W. McQueen, city clk., will build sewers in various streets, by day labor. $25,000. C. Brackenbridge, city engr.

Waste Disposal

Proposed Work

Fla., Fort Myers—Voted $45,000 bonds, incinerator. O. M. Davison, mayor. Noted Mar. 18.

Ont., St. Catharines—City council plans incinerator. $35,000. A. Lamson, City Hall, engr.

Ont., St. Catharines—City Council plans garbage incinerator, concrete and brick, etc. $31,000. B. J. Lamson, City Hall, engr.

Bids Desired

N. J., Highlands—Apr. 12, at Boro Hall, 30 ton incinerator. U. G. Johnson, boro clk.; adv. E. N.-R. Apr. 8.

Bids Received

Tex., Ft. Worth—O. E. Carr, city mgr., incinerator at North Fort Worth and one at Arlington Heights, from Superior Incinerator Co., Wilson Blvd., Dallas, 3¾ ton. $67,000; from Nye Odorless Crematory, Macon, Ga., 4½ ton $68,000. Noted Dec. 17.

Bridges

Proposed Work

Mass., Boston—Dept. Pub. Wks., making plans rebuilding steel and concrete bridge over New York, New Haven and Hartford R.R. tracks, at West Newton St. $45,000. J. E. Carty, City Hall, engr.

Ga., Atlanta — Voted $1,000,000 bonds, viaducts. W. Sims, mayor. Noted Feb. 25.

Tenn., Bolivar—State Dept. Highways & Pub. Wks., Nashville, making surveys bridge over Hatchie River, on State Road 15, Hardemen Co., near here. C. N. Bass, highway comr.

Tenn., Smithville — De Kalb Co. plans bridge over Caney Fork River at Loves Ferry, here. $105,000 available.

Tenn., Sparta—State Dept. Highways & Pub. Wks., Nashville making preliminary plans 1 span 68 ft. steel truss bridge on concrete piers, De Kalb Co., here. $40,000. C. N. Bass, comr.

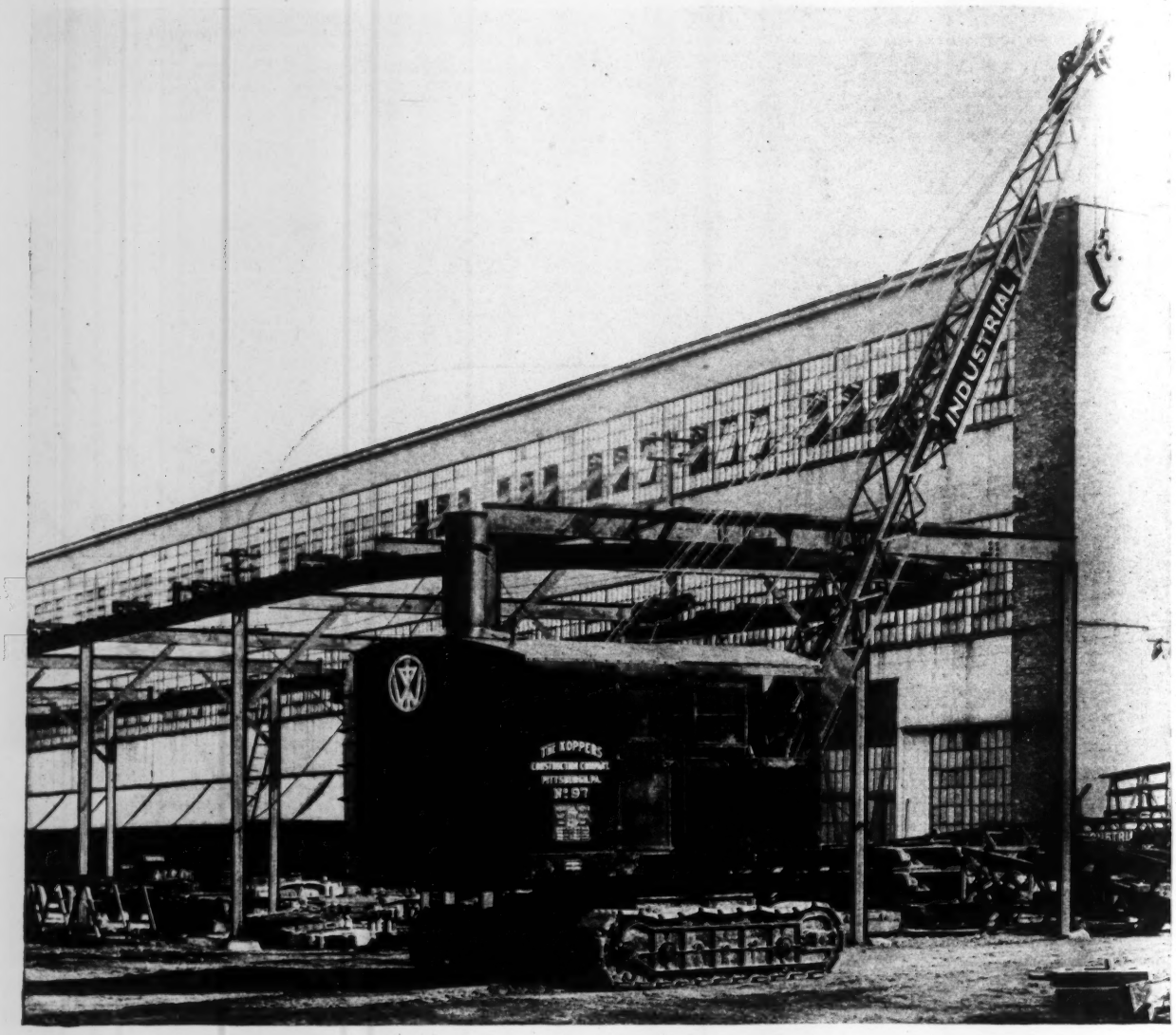
O., Akron—Bd. Comrs. Summit Co. takes bids in spring 40 ft. span rein.-con. and steel bridge, 30 ft. roadway New Portage Uniontown Rd., $18,000; two 28½ ft. span flat slab rein.-con. bridge, Brittan Rd., $15,300; and 143½ ft. span rein.-con. and steel truss bridge, 30 ft. roadway, on Cuyahoga St. $62,000. H. G. Sours, Courthouse, engr.

Tex., Carthage—See "Streets and Roads."

Tex., Cuero—See "Streets and Roads."

Tex., Tulia—See "Streets and Roads."

Calif., Los Angeles—Plans election $1,900,000 bonds, constructing new and replacing old bridges in various sections of city.



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Bridges (Continued)

Bids Desired

Maine—May 4 (extended date), by State Hy. Dept., Augusta, bridge over Kennebec River in Bath and Woolworth. $3,000,000. J. H. L. Waddell, 150 Bway., New York City, engr. Noted Apr. 1.

Mass., Amherst—Apr. 20, by Dept. Pub. Wks., Boston, 2 concrete bridges and bituminous macadam approaches, each approximately 750 ft. long, here. $25,000 or more. W. F. Williams, comr.

W. Va., Morgantown—May 3, by Morgantown Co. Court, W. L. Parks, pres., 80 ft. Pony truss steel bridge, etc., over White Day Creek at Smithtown, Clinton Dist. A. J. Baritell, co. road engr.; adv. E. N.-R. Apr. 8.

Louisiana—Apr. 29, by State Hy. Dept., Baton Rouge, Leathermans Creek Bridge, 80 ft. low riveted, concrete and steel, on Arcadia-Homer Highway, Federal Aid Project 85-D, 1 mi. south Athens, Claiborne Parish; also reconstructing and repairing Calcasieu River Bridge, on Lake Charles-West Lake Highway, State Aid Project 461, at Lake Charles, Calcasieu Parish. W. B. Robert, Reymond Bldg., Baton Rouge, highway engr.

Ohio—Apr. 16, by Dept. Hys. and Pub. Wks., Columbus, steel and concrete bridges in Vinton, Lawrence, Perry, Pike, Morgan, Clermont and Athens Co. $91,093. G. Schlesinger, highway engr.

Ind., Anderson—May 15, by Comrs. Madison Co., 700 ft. steel and concrete bridge over White River, on Anderson-Rerkinserville Pike. $95,000. W. H. Steel, Court House, engr.

Ill., Chicago—Apr. 15, by H. E. Wallace, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., approaches for bascule bridge over main drainage channel Sanitary Dist. of Chicago, on line South Cicero Ave. $150,000. M. Eller, chn.

Ia., Cedar Rapids—Apr. 15, at office Auditor Linn Co., 160 x 20 ft. high truss bridge, rebuilding 24 ft. I-beam bridge and 23 box culverts on Federal Aid Project 255; 50 x 20 ft. pony truss bridge and 12 box culverts on Federal Aid Project 230; 24 culverts on Federal Aid Project 341; one 40 ft. I-beam and one 150 x 20 ft. high truss bridge also 16 culverts on Federal Aid Project 264; 40 x 20 ft. I-beam bridge and 22 box culverts on Federal Aid Project 229. R. Gearhart, Cedar Rapids, co. engr.

Ia., Marengo—Apr. 13, at office Auditor Marengo Co., one 96 x 20 ft. pony truss and one 110 x 20 ft. high truss bridges, also two 40 x 20 ft. I-beam approaches. F. A. Peterson, Marengo, co. engr.

Ia., Marshalltown — Apr. 12, at office Auditor Marshall Co., one I-beam bridge, 43 circular and 12 box culverts, also extending 6 culverts. D. C. Elder, Marshalltown, co. engr.

Ia., Nevada — Apr. 15, at office Auditor Story Co., one I-beam bridge and 18 box culverts. Address S. Steigerwalt.

Minn., Minneapolis—May 19, at office F. S. Gram, city purch. agt., City Hall, Cedar Ave. bridge over Mississippi River, at 10th Ave. S. E. and University Ave. to 15th Ave. S. and 2nd St.; adv. E. N.-R. Apr. 8.

Kan., Ft. Scott—See "Streets and Roads."

Kan., Olathe—Apr. 30, by Clerk Johnson Co., three 18 ft. slab span bridge, four 26½ ft. span girder bridge and one 53½ ft. span concrete girder bridge on Federal Aid Project 312-A. E. J. Terrill, Court House, co. engr.

Kan., Seneca—Apr. 19, by Clerk Nemaha Co., one 100 ft. and one 60 ft. steel truss, also two 30 ft. and two 20 ft. I-beam spans on Federal Aid Project 225-C. L. T. Price, Court House, co. engr.

Tex., Abilene—See "Streets and Roads."

Tex., Boston—See "Streets and Roads."

Tex., Brownsville — See "Streets and Roads."

Tex., Sweetwater — See "Streets and Roads."

California—Apr. 26, by State Hy. Comn., Sacramento, rein.-con. bridge to have 180 ft. open spandrel arch and four 32 ft. girder approach spans over Smith River near Adams Station, Del Norte Co. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Que., Val Moriu—May 1, by A. Lapierre, Val Moriu, concrete bridge over North River. $35,000. I. E. Vallee, 67 St. Cyrille St., Quebec, engr.

Bids Received

Louisiana — State Hy. Comn., Baton Rouge, Mar. 23, Sabine River Bridge, incl. 75 ft. pony truss span and 300 ft. steel swing span, etc., Federal Aid Project 336-B, at Orange, Tex., from Womack Constr. Co. and Brown-Abbott Co., Wilson Bldg., Dallas, Tex., $246,642. Noted Mar. 11.

Michigan — State Hy. Dept., at office Comrs. Kent Co., Grand Rapids, State Bridge 410803, Contr. 1, 150 ft. long, 22 ft. wide, from Price Bros., Tussing Bldg., Lansing, $39,909.

Texas—See "Louisiana."

California—State Hy. Comn., Sacramento, Mar. 29, thirty-six 39 ft. span rein.-con. girder bridge over Santa Maria River, north of Santa Maria, San Luis Obispo Co., from Rocca & Coletti, San Rafael, $107,440. Engrs. est. $124,750. Noted Mar. 18.

Calif., Los Angeles—For 29,468 ft. 6- to 10-in. cement sewer, etc. in 3rd Ave., and 38,777 ft. 6- to 24-in. vitr. clay sewer, etc. in Hyde Park Blvd., from M. Miller, 208 West 2nd St., $27,873 and $58,874 respectively; 25,990 ft. 6- to 18-in. concrete and vitr. clay sewer in Centenella Ave., from G. M. Wucetich, 1057 North Chicago St., $32,918; and 51,737 ft. 6- to 12-in. vitr. clay sewer, etc. in Sawtelle Blvd., from N. Chutuk & M. Vukojevich, 1230 Bon Bon St., $59,286.

Calif., San Diego — See "Streets and Roads."

Contracts Awarded

Mass., Boston — City, Dept. Pub. Wks., J. H. Sullivan comr., widening Arlington Sq. bridge, concrete and steel, Tremont St., to J. F. Kennedy Constr. Co., 755 Boylston St., $41,497.

N. Y., Poughkeepsie—F. S. Greene, supt. Pub. Wks., 55 Lancaster St., Albany, 2 main piers Mid-Hudson River Bridge, across Hudson River, Dutchess Co., here, Contr. 3, to Philipsburgh Constr. Co., 15 North Bway., Yonkers, $1,841,545. Noted Mar. 4.

N. J., Camden—State Hy. Dept., Trenton, double leaf deck girder simple trunnion bascule bridge over Cooper River, on Entrance Rd. to Delaware River Bridge, here, to Kolyn Constr. Co. & M. Staub, Commonwealth Bldg., Trenton, $469,990. Noted Mar. 11.

Tex., Linden—See "Streets and Roads."

Dams

Proposed Work

Tex., Del Rio—Texas Central Power Co., c/o Frost Bldg., San Antonio, making surveys large power dam on Devils River, near here, to supply hydro-electric energy to Del Rio and surrounding farms and ranches. $250,000. Private plans.

Railways

Proposed Work

North Carolina—New Holland, Higginsport & Mt. Vernon Ry., New Holland, plans reconstructing and completing 36 mi. railway from Wenona to New Holland, on Mattamuskeet Lake, in Hyde Co.

North Carolina—Southern Ry., B. Herman, ch. engr., 1300 Penn. Ave., Wash., D. C., plans double tracking from Salisbury to point 6 mi. west on Asheville Div., also enlarging Salisbury-Spencer yards, here.

Texas—See "Unclassified, under Callado, Tex."

California—City of San Francisco plans to appropriate $4,076,000 for railway extensions, equipment and shops in San Francisco. M. M. O'Shaughnessy, San Francisco, city engr.

Contracts Awarded

Oklahoma — Gulf, Colorado & Santa Fe R. R. Co., Galveston, Tex., F. Merritt, ch. engr., 32 mi. standard gauge railroad from Fairfax to Pawhuska, here, to Sharp & Fellows Constr. Co., Central Bldg., Los Angeles, Calif., c/o A. G. Gannon in charge work, approximately $140,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Mass., Boston—Commonwealth of Massachusetts, Metropolitan Planning Bd. plans filling in Charles River Basin and changing harbor lines. To exceed $25,000. H. I. Harriman, chn.

Tex., Brownsville—El Jardin Community, near here, Cameron Co., election soon $800,000 bonds, irrigation district and drainage system. C. P. Williams, Brownsville, engr.

Tex., Orange—Orange Co., c/o D. C. Bennett, judge, plans irrigation project, incl. dam, concrete ditches, etc. Election soon $800,000 bonds for same.

Bids Desired

N. Y., Albany—Apr. 23 (extended date), at office Albany Port Dist. Comm., 100 State St., dredging in Hudson River, here. F. C. Herrick, chn.; adv. E. N.-R. Apr. 8. Noted Mar. 18.

Ill., Urbana—Apr. 16, by Comrs. Hillsbury Slough D. D. at office Clerk Champaign Co., cleaning out and extending open ditch in Sub-Dist. 2, 29,300 cu.yd. excav., etc. Danley & Smeltzer, Flatiron Bldg., Urbana, engrs.

Mo., Cape Girardeau — Apr. 19, by Supervs. Little River D. D., concrete spillway in drainage canal spoil bank, approximately 160 cu.yd. concrete slope paving, 900 sq.yd. flexible concrete block mattresses, 2,000 lb. reinforcing, 8,000 ft. timber sheet piling and 2,500 cu.yd. excav. Morgan Eng. Co., 622 Goodwyn Institute, Memphis, Tenn., engrs.

Calif., Montague — Apr. 16, by R. E. Swigart, secy. Montague Irrigation Dist., reservoir and canal system, 700,000 cu.yd. hydraulic fill dam, 1,600 cu.yd. rein.-con. in reservoir outlet works and spillway, 320,000 cu.yd. main canal excav., 160,000 cu.yd. lateral excav. and various canal and lateral structures.

Calif., Thermalito — Apr. 19, by R. A. Leonard, secy. Thermalito Irrigation Dist., furnishing, trenching, backfilling 36,865 lin. ft. riveted slip joint pipe with fittings such as valves, tees, etc.

Bids Received

N. Y., Buffalo—Dredging inner harbor and maintenance of channel, from Central Dredging Co., 1154 Union Trust Bldg., Cleveland, O., at $0.394 per cu.yd.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Apr. 2, rip-rap embankment, outside and adjacent to timber bulkhead along Beach Channell Dr. from Beach 130th to 141st Sts., from Vouker Contg. Co., 17 State St., New York City, $48,950. Noted Apr. 1.

La., New Orleans — Bd. Levee Comrs., Orleans Levee Dist. Court House, Apr. 1, driving round piles and placing sheet pile bulkhead in southern shore, Lake Pontchartrain from West End to Seabrook, from Scott & Bres, Canal-Commercial Bldg., $135,806.

Contracts Awarded

Md., Baltimore—Bd. Awards, dredging Baltimore Harbor for 1926, to Arundel Corp., Pier 4, Pratt St., $111,650. Noted Apr. 1.

Streets and Roads

Proposed Work

Mass., Boston—Plans widening Boylston St. from Arlington to Dartmouth Sts. To exceed $25,000. J. H. Sullivan, comr.

Mass., Bridgewater—Voted $32,000 appropriation improving various streets and extending waterworks. Bd. Selectmen, engrs.

Mass., Concord—Plans improving various streets. $41,500 appropriated. Bd. Selectmen, engr.

Mass., Roxbury (Boston P. O.) — Bd. Street Comrs., Boston, plans laying out and constructing Alley 1006 as public street from Huntington Ave. to South Huntington Ave. $25,000 or more. J. Sullivan, secy.

Conn., Stratford—Plans grading and oiling various streets. $45,000. Dept. Pub. Wks., Town Hall, engr.

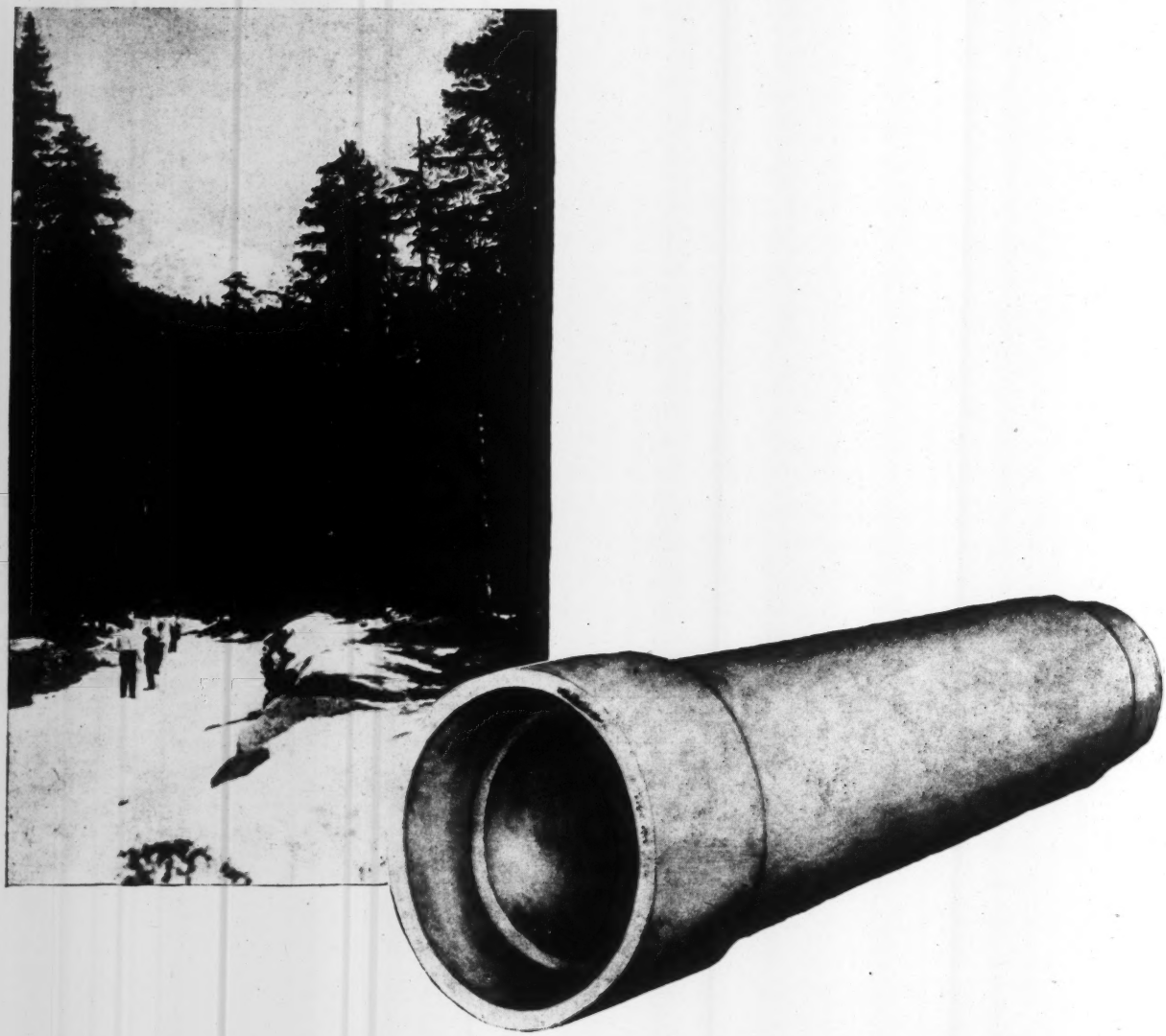
N. J., Seaside Heights—Mayor and Boro Council plans grading and graveling Ocean Terrace, $20,000; and regraveling Franklin Ave., $15,000. H. M. Herbert, Seaside Heights, engr.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, rejected bids Mar. 18, grading, 65th Ave., Bingham, Comly, Lawndale, Levick, Vankirk, Edna, Fern, Franklin, Front, Gale, Lawrence, Spencer, 2nd, 4th, 9th, 11th and 12th Sts.; and asphalt repaving Haverford St. Noted Mar. 25.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, rejected bids Mar. 25, grading Glen Echo Rd., Filmont, Ritner, 12th and Tyson Sts. G. H. Biles, dir.

Pa., Swissvale—Election May 18, $200,000 bonds, improving various streets. J. D. Hall, boro engr.

W. Va., Beckley—Marsh Fork Dist., Raleigh Co., voted $168,000 bonds, improving various roads. W. J. Campbell, Beckley, co. engr. Noted Mar. 25.



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Streets and Roads (Continued)

W. Va., Williamson—Election Apr. 24, $95,000 bonds, improving various streets. W. F. Hatfield, mayor.

N. C., Shelby—Plans to issue $125,000 bonds additional street paving.

Ga., Thomasville — Making preliminary plans improving various streets. $25,000 bond election soon for same. Robert & Co., Bona Allen Bldg., Atlanta, engrs.

Fla., Orlando — Orange Co. voted $7,000,000 bonds, paving 340 mi. various roads.

Louisiana — State Hy. Comn., Baton Rouge, plans expending $16,000,000 during 1926, of which $10,000,000 will be spent by Highway Comn., and $6,000,000 to be supplemented by amounts expended by local subdivisions. Work includes hardsurfacing 10 mi. Jefferson Highway, south of Alexandria and 7 mi. Jefferson-Dixie Overland Highway, etc. also gravel surfacing 500 mi. various roads, etc.

La., Pointe a la Hache — Police Jury Plaquemine Parish, election May 15, in new created Road Dist. 4, levying 10 mill tax for period of 15 years, hardsurfacing 6 mi. road from courthouse to Bomimer Plantation.

Ky., Hopkinsville — Making preliminary plans grading and sheet asphalt paving 16,000 sq.yd. various streets. $32,000. C. Vaughn, city engr.

Ohio—Dept. Highways & Pub. Wks., cancelled bids to have been opened Mar. 19, hauling and spreading limestone, etc., on 1.942 mi. Sect. "H-1" McConnelsville-New Lexington Rd., Morgan Co.; and 3.5 mi. Sects. "K" and "S" same road. Noted Mar. 11.

O., Akron—W. F. Peters, dir. Pub. Serv., takes bids in spring, grading, curbing, vitr. brick paving 5,900 sq.yd. Peerless Ave. $50,500. E. A. Kemmler, Municipal Bldg., engr.

O., Akron—Bd. Comrs. Summit Co. takes bids in spring grading, curbing, and paving, etc., with **(a)** vitr. brick or **(b)** concrete, 34,000 sq.yd. Kenmore-Mogadore Rd. 44-E, **(a)** $178,000 **(b)** $133,000; 35,400 sq. yd. Boston-Mills-Hudson Rd. 32-C, **(a)** $200,000 **(b)** $153,000; and 36,800 sq.yd. South Main St. 50-D, **(a)** $212,000 **(b)** $154,000. H. D. Sours, Court House, engr.

O., Akron—W. F. Peters, dir. Pub. Serv. takes bids in spring grading, curbing, paving, etc. 6,925 sq.yd. Packard Dr. $56,700. E. A. Kemmler, Municipal Bldg., engr.

O., Canton—Bd. Control soon takes bids widening, sidelighting and asphalt repaving Cleveland Ave. S. W. from Tuscarawas to 6th Sts., 60 ft. $50,000. W. E. Sarver, City Hall, engr.

O., Columbus—Franklin Co. soon takes bids grading and waterbound macadam paving 1.085 mi. Coffman Rd. $15,929, 1.15 mi. Clotts Rd. $29,054, 0.53 mi. Haper Rd. $17,464, 0.566 mi. 1st Ave. Rd. $13,424, 0.125 mi. Deshler Rd. $3,841, and 0.51 m.f Central Ave. $12,306. C. C. Lattimer, co. surv.

O., St. Clairsville—Bd. Comrs. Belmont Co. soon takes bids traffic bound macadam paving St. Clairsville-Warnock and other roads. $60,000. E. M. Shirk, St. Clairsville, engr.

O., Youngstown—Bd. Control soon takes bids widening and asphalt repaving ¾ mi. Indianola Ave., 32 ft. $50,000.

Ind., Evansville — Bd. Pub. Wks. soon takes bids asphalt, brick, concrete or asphaltic concrete on concrete paving Gum St., Benninghof, Runnymeade, Henning, and Baker Aves. To exceed $25,000. R. J. Hitch, city clk.

Mich., Detroit — Making plans 3½ in. sheet asphalt on 8 in. concrete surfacing 4,670 sq.yd. Elmira Ave. $23,320, 2,440 sq. yd. Beechdale Ave. $12,190, 1,930 sq.yd. Springle Ave. $9,680, 3,310 sq.yd. Doyle Ave. $11,560, 6,160 sq.yd. Traverse Ave. $30,800, 2,510 sq.yd. Rosemary Ave. $12,560, 1,345 sq.yd. Duane Ave. $6,720, 7,320 sq.yd. Cadet Ave. $36,550, 1,730 sq.yd. Cloverdale Ave. $8,640, all foregoing 30 ft. wide; 9,600 sq.yd. Nottingham Ave., 30 to 36 ft., $48,010; 3,310 sq.yd. Caniff St. $16,650, 5,170 sq.yd. Puritan Ave. $25,800, 9,610 sq.yd. Jerome Ave. $48,030, all 36 ft. wide; 2,050 sq.yd. Lyman Pl. $10,250, 9,540 sq.yd. Fenelon Ave. $47,710, 3,600 sq.yd. Turner Ave. $17,910, 5,200 sq.yd. Greenlawn Ave. $26,000, 1,075 sq.yd. Christiancy Ave. $5,390, 2,660 sq.yd. Burt Ave. $13,320, 2,760 sq.yd. Tarnow Ave. $3,590, 4,540 sq.yd. Appoline Ave. $22,700, 4,710 sq.yd. DeSota Ave. $23,540, 3,670 sq.yd. Sorrento Ave. $18,350, 1,800 sq.yd. Shields Ave. $8,090, 4,900 sq.yd. Kentucky Ave. $24,250, all foregoing 28 ft. wide; 12,150 sq.yd. Meyers Ave., 46 ft., $60,720; 6,400 sq.yd. Harper Ave., 50 ft., $31,960. P. A. Fellows, city engr.

Mich., River Rouge—Plans election $60,000 bonds, widening and vibrolithic or concrete paving West Jefferson Ave. M. L. Brown & Son, 407 Capitol Bldg., Detroit, engrs.

Ill., Ashland—City Clerk takes bids about Apr. 15, grading, curbing and concrete paving 12½ blocks various streets, 27 and 40 ft. Goodell & Millard, Beardstown, engrs.

Ill., Dwight — Plans curbing, widening, concrete paving, etc., 6,000 sq.yd. East Main St. $25,000. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs.

Ill., Knoxville — Plans grading, curbing and vitr. brick on concrete paving 6 blocks various streets, 36 ft. $25,000. F. M. Connolly, city engr.

Ill., Melrose Park — Takes bids about Aug. 1, concrete paving 6.5 mi. various streets. $400,000. W. Thomas, City Hall, Oak Park, engr.

Ill., Mount Carmel — Wabash Co. soon takes bids gravel surfacing 12 mi. Road Dist. 3. $32,000 bonds voted. D. A. McClung, Court House, supt. Noted Mar. 4.

Ill., Oak Park—Bd. Local Impvts. takes bids about July 1, asphalt paving 24,500 sq.yd. Woodbine Ave., $184,000; 10,000 sq.yd. Lake St., $117,000; and 16,000 sq.yd. North Ave., $140,000. W. Thomas, City Hall, engr. Noted Feb. 18.

Ill., River Forest (mail Oak Park) — Takes bids about Aug. 1, asphalt paving 1.5 mi. Division St. $150,000. W. Thomas, City Hall, Oak Park, engr.

Ill., Sterling — Soon takes bids grading, curbing and concrete asphalt or brick paving 50,000 sq.yd. 19th Ave., East and West 5th Sts. A. G. Hubbard, City Hall, engr.

Ia., Oskaloosa — Mahaska Co. election Apr. 14, $1,000,000 bonds, improving primary road system. R. H. Tumy, Oskaloosa, co. engr.

Ia., Sigourney—Keokuk Co. takes bids in spring or summer grading, bridging, etc., 6 mi. Primary Rd. 2 $60,000, and 4.5 mi. Primary Rd. 85 $65,000; also gravel surfacing Primary Rd. 2, west of here to Mahaska Co. line, $40,000. R. C. Fye, Court House, engr. Noted Apr. 1.

Kan., Perry—Making plans paving various streets. To exceed $25,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs.

North Dakota—State Hy. Dept. and Bd. Comrs. Oliver Co., Center, rejected bids Mar. 23, grading, etc., 50,425 cu.yd. Federal Aid Project 314-A. C. Christensen, highway comr. Noted Mar. 18.

Missouri—State Hy. Dept., Jefferson City, plans grading 113.905 mi. roads in Bates, Boone, Linn, Pettis, Pike, Ralls, Randolph, Saline, Vernon and St. Charles Counties; 30 ft. grading 13 mi. roads in Cass Co.; 18 ft. gravel surfacing 5 mi. road in Oregon Co.; 9 ft. brick paving 13.2 mi. road Boone Co.; 18 ft. brick paving 7.7 mi. Randolph Co.; 9 ft. concrete paving 30.7 mi. roads in Boone and Saline Counties; and 18 ft. concrete paving 73.2 mi. roads in Bates, Linn, Pettis, Pike, Ralls, Randolph, St. Charles and Vernon Counties. B. H. Piepmeier, ch. engr.

Mo., Platte City—Voted $26,000 bonds, sheet asphalt paving, etc., approximately 23,000 sq.yd. various streets. W. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, engrs. Noted Mar. 4.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids asphalt paving 27,325 sq.yd. Hawthorne and Longfellow Places, $115,200; asphaltic concrete paving 1,330 sq.yd. Dunnica St. $10,750, and 1,005 sq.yd. Duke St. $8,380; also concrete paving 2,425 sq.yd. alleys in City Blocks 4842 and 2690, $6,650. W. W. Horner, 300 City Hall, engr.

Ark., Batesville—Plans sheet asphalt surfacing 6 blocks Broad and Bates Sts., Dist. 5, 24 ft. $32,000. F. F. C. Woodward, mayor. Engineer not selected.

Ark., Fayetteville—Soon takes bids grading, curbing and concrete or asphalt paving 2,576 ft. Paving Dist. 31. $27,000. E. M. Ratliffe, Stone Bldg., engr.

Tex., Carthage—Panola Co. making plans grading and bridging 4.11 mi. Highway 43. $28,000. D. E. Martin, Carthage, co. engr.

Tex., Cuero—De Witt Co. making plans grading, bridging and hardsurfacing 11 mi. Yorktown-Westhoff Rd., 18 ft., $309,000; also gravel surfacing 6 mi. Highway 29, 16 ft., $30,000. W. H. Koether, Yorktown, engr.

Tex., Cuero—DeWitt Co. making plans grading, bridging and gravel surfacing 24 mi. Highway in Road Dists. 7 and 8. $750,000. A. H. Gulledge, Yorktown, engr.

Tex., Dallas — Dallas Co., making plans grading, constructing timber pile trestle overpass and bituminous macadam surfacing approaches on 0.159 mi. Highway 10-A, between Cedar Hill and Ellis Co. line, 18 ft. $25,300. R. H. Clinger, co. engr.

Tex., Galveston—Takes bids after Apr. 10, improving Bway., 75,000 sq.yd. rein.-con. or asphalt paving, 20,000 lin.ft. concrete curbing or curbing and guttering 20,000 lin.ft. plain concrete curbing, 3,000 lin.ft. concrete headers, etc. $250,000. C. A. Holt, Jr., Galveston, engr.

Tex., Hillsboro—Plans permanent paving 8 blocks West Elm St. $30,000. T. A. Bullock, Hillsboro, engr.

Tex., Jourdanton — Voted $40,000 bonds permanent paving 18 blocks various streets. J. B. Leggett, mayor. Noted Mar. 18.

Tex., Menard—Menard Co. election soon $150,000 bonds, hardsurfacing 11 mi. highway radiating from here. Probably state and federal aid. Address J. W. Mathews, judge.

Tex., Muleshoe—Bailey Co. election soon $90,000 bonds, grading, graveling, etc., 5 mi. Highway 7. Address W. G. Kennedy, Muleshoe, co. judge.

Tex., Port Arthur — Making preliminary plans concrete paving, etc. 8 mi. various streets, 16 ft. $500,000. Election June 1, $150,000 bonds, for same. W. O. Bower, Port Arthur, city engr.

Tex., Raymondville—Willacy Co. plans hard paving 18 mi. roads extending south from here to Cameron Co. line and on highway extending north and lateral roads. $600,000. $300,000 to be supplemented by State and Federal Aid. J. E. Hohnson, Raymondville, engr. Noted Jan. 7.

Tex., Slaton — Voted $100,000 bonds, paving 18 blocks various streets. Montgomery & Ward, 545 Harvey Snider Bldg., Wichita Falls, engrs.

Tex., Tulia—Swisher Co. making plans grading and bridging 30 mi. Highway 9. $150,000. L. O. Cox, Tulia, div. engr.

Tex., Tyler—Voted $50,000 bonds, paving various streets. Address A. B. Curtis, city secy.

Tex., Vernon — H. Mason, mayor, soon takes bids paving 4 blocks Fannin, 1 block Dawson and 1 block Wanderer Sts. $30,000. J. B. Nabors, Vernon, engr.

Oklahoma—State Hy. Dept., Oklahoma City, making surveys grading, etc., 11 mi. State Highway 9, west of Checotah, 30 ft., McIntosh Co., $60,000; and 18 mi. State Highway 9 east from Denver to county line, 30 ft., Okmulgee Co., $40,000. J. W. Page, highway engr.

Okla., Frederick — Made plans paving various streets in Paving Dist. 11. To exceed $25,000. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Hobart — Voted $36,600 bonds, grading and concrete paving 11,750 sq.yd. North Washington and North Hill Sts., 30 ft. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Mangum — Making preliminary plans paving various streets. To exceed $25,000. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Muldrow — Making preliminary plans grading, curbing and concrete paving 9,400 sq.yd. Main St. $30,000. A. Phillips, city clk. Engineer not selected.

Okla., Newkirk — Making preliminary plans concrete paving various streets. To exceed $25,000. H. E. Munson & Co., 401 Grain Exch. Bldg., Oklahoma City, engrs.

Okla., Oklahoma City — Plans grading, curbing and sheet asphalt paving 5,130 sq.yd. West 21st St. $27,610. B. M. Hart, City Hall, engr.

Calif., Los Angeles — Los Angeles Co. plans mountain road from Glendora through Sierra Madre mountains to San Gabriel dam site. To exceed $125,000.

Calif., Maywood — Made plans concrete paving and street lighting system on Atlantic Ave. between south city boundary and 52nd St. To exceed $100,000. V. Wood, Amer. Bank Bldg., Los Angeles, engr.

Calif., Oakland—Made plans improving Harrison St. between 13th and 20th Sts., 18,454 sq.ft. grading, 3,412 lin.ft. concrete curbing, 4,547 sq.ft. concrete guttering, 27,194 sq.ft. Warrenite surfacing, 13,907 sq.ft. 6 in. concrete base, etc. W. W. Harmon, city engr.

Calif., San Diego—Making plans grading, curbing, sidewalks, etc., on Crown Point, a subdivision on Mission Bay. $250,000. Watson, Valle & Gouch, 502 Spreckels Bldg., engrs.

Calif., San Diego — Bd. Supervs. San Diego Co. making plans 5 in. concrete paving Euclid Ave. from University to Imperial Aves. $150,000. Watson, Valle & Gouch, 508 Spreckels Bldg., engrs.

Calif., San Diego—Love & Touhey, Commonwealth Bldg., made plans improving Islenair Subdivision, San Diego Co., 3,629 lin.ft. cement curbing, 30,521 sq.ft. cement sidewalk, 9,951 cu.yd. earth excav., 12,513 6 in. sewer, 11,911 6 in. water pipe, and 2,317 4 in. water pipe, etc. $35,000. Watson, Valle & Gouch, 508 Spreckels Bldg., engrs.

Calif., San Diego—Common Council plans improving Rosecrans and Talbot Sts., etc., 123,828 sq.ft. 5 in. concrete paving, 8,681 cu.yd. excav., 6,844 lin.ft. concrete curbing, etc.; also University Ave. from Euclid Ave. to eastern city limits, 359,988 sq.ft. 5 in.

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Ingersoll-Rand

Streets and Roads (Continued)

concrete paving 39,085 cu.yd. excav., 16,261 lin.ft. concrete curbing, etc. F. A. Rhodes, City Hall, engr.

Calif., San Francisco — Plans to appropriate $6,000,000, widening Capp St.; also $100,000 street improvements fronting city property. M. M. O'Shaughnessy, city engr.

Ont., Hamilton — Wentworth Co. plans grading, graveling and macadamizing various roads. $125,000. H. A. Lumsden, County Bldg., engr.

Ont., Kingston — Frontenac Co., plans graveling earth and macadamizing roads. $76,500. R. H. Fair, 183 William St., engr.

Ont., Niagara Falls—Plans curbing, guttering and asphalt on concrete paving 6,000 sq.yd. Falls Ave. $25,000. T. S. Scott, City Hall, engr.

Ont., Toronto—East York Twp., plans 16 ft. concrete or asphalt on concrete paving, Stanhope Ave. $3,900, Rivercourt Ave. $4,800, Monarch Park Ave. $2,450, Mortimer Ave. $10,800, Cosbum Ave. $15,790, Westlake Ave. $7,300, Gledhill Ave. $10,100, and Coxwell Ave. 4,800. G. R. Jack, 443 Sammon Ave., engr.

Ont., Toronto — Plans concrete paving Plum Pl., $18,866; asphalt on concrete paving Willow Ave. $4,151, and Harper Ave. $7,988. R. C. Harris, City Hall, engr.

Bids Desired

Massachusetts — Apr. 20, by Dept. Pub. Wks., Boston, bituminous macadam paving, etc. 21,566 ft. highway, in Monson; 24,123 ft. highway, Bernardston and 10,700 ft. highway, Northfield, all 18 ft. W. F. Williams, comr.

Mass., Brookline (br. Boston)—Apr. 12, by Selectmen, A. G. Killion, secy., Town Hall, repairing and constructing concrete sidewalks, driveways, gutters, etc., on various streets. $25,000 or more.

N. Y., Brooklyn—Apr. 14, by J. A. Guider, pres. Brooklyn Boro, Boro Hall, permanent granite on 6 in. concrete paving 82nd St.; grading, curbing and flagging Avenue H, Ashford, East 9th, East 12th, East 27th, East 35th, East 37th, West 5th, West 7th, West 9th, 54th, 56th, 64th and 71st Sts., Bedford, Remsen, Ryder and 12th Aves.; grading and permanent asphalt on 6 in. concrete paving Bedford, Brooklyn, Riverdale, Ryder, Schenck, 10th and 11th Aves., East 8th, East 27th, East 29th, East 35th, Powell, West 7th, 54th, 56th, and 80th Sts.

N. Y., New York — Apr. 15, by H. Bruckner, pres. Bronx Boro, Crotona Park, Tremont and 3rd Aves., curbing and sheet asphalt on concrete repaving Prospect Ave. and Claremont Parkway.

N. Y., St. George—Apr. 9, by J. A. Lynch, pres. Richmond Boro, Boro Hall, concrete repaving Hylan Blvd. from line driving 4th and 5th Wards to Nelson Ave., etc.

N. Y., St. George — Apr. 13, by J. A. Lynch, Pres. Richmond Boro, Boro Hall, bituminous concrete paving Tompkins St.; also concrete paving approximately 1,200 sq.yd. in yard of garbage destructor, at West New Brighton.

N. J., Bridgeton—Apr. 9, by E. C. Ott, chn. Road Com., Cumberland Co., Courthouse, 360,000 gal. slow curing road oil on roads. W. M. Sharp, Court House, co. engr.

N. J., Bridgeton—Apr. 13, by E. C. Ott, chn. Road Com. Cumberland Co., sheet asphalt, rein.-con. bituminous concrete or vibrolithic concrete paving Sect. 4-A, Bridgeton-Port Norris Rd., Lawrence and Downe Twps. W. M. Sharp, Bridgeton, co. engr.; adv. E. N.-R. Apr. 8.

N. J., Newton — Apr. 27, by Bd. Freeholders Sussex Co., grading, etc. Sect. 1, Lafayette Sparta Rd., Sparta Twp. H. Snook, Newton, co. engr.; adv. E. N.-R. Apr. 8.

Pa., Greensburg—Apr. 21, by W. A. Arter, controller Westmoreland Co., Court House, rein.-con. reconstructing approximately 19,700 ft. Greensburg-Mutual Rd., 16 ft., Hempfield and Unity Twps.

Pa., Johnstown—Apr. 13, by City Council, M. L. Masterson, supt. streets, improving approximately 2 mi. various streets, incl. bituminous paving and storm sewers in Pine, Washington, Poplar, and Rose Sts.; brick paving and sewers in Washington, Main, Derby, and Stackhouse Sts., Middle and Pennsylvania Aves.; concrete paving and sewers in Smith, Slick, 5th, Diana and Lucas Alleys; also sanitary sewer in Sherman St., $150,000. H. L. Wilson, city engr.

Maryland — Apr. 20, by State Roads Comn., Baltimore, concrete paving and concrete shoulders and resurfacing roads in Carroll, Harford, Wicomico, Montgomery, Anne Arundel, Prince George, and Worcester Counties. J. N. Mackall, chn.; adv. E. N.-R. Apr. 8.

Maryland—Apr. 13, by State Rds. Comn., 601 Garrett Bldg., Baltimore, concrete paving 2.05 mi. Contr. G-34 Garrett Co., 1 mi. Contr. Cl-56 Carroll Co., and 1.35 mi. Contr. Q-36, Queen Annes Co.; graveling 1.69 mi. Contr. C-23, Calvert Co.; concrete shoulders 2.4 mi. Contr. M-6-A Montgomery Co., and 5.2 mi. Contr. H-7-A, Howard Co.; concrete shoulders and resurfacing Contr. Wi-6-B, Wicomico Co. J. N. Mackall, chn.; adv. E. N.-R. Apr. 8.

Md., Baltimore—Apr. 14, by Bd. Awards, paving alleys listed in Alley Contr. 119; concrete paving 19,630 sq.yd. Contr. 327; sheet asphalt paving 26,000 sq.yd. Contr. 326, and 12,860 sq.yd. Contr. 328. S. Purcell, City Hall, highways engr.

Md., Baltimore—Apr. 14, by Bd. Awards, grading and paving with cement and concrete footways as listed in Footway Contr. 91. S. Purcell, City Hall, highways engr.

Md., Towson—Apr. 13, Comrs. Baltimore Co., sheet asphalt paving 2,000 ft. 5th and Snyder Aves., and 1,000 ft. Leeds Ave., Group 5; 2,000 ft. concrete shoulders 5th Ave. from Snyder Ave. east, 1,000 ft. Leeds Ave., and 1,000 ft. Edmondson Ave., Group 6. S. A. Green, Courthouse, road engr.

Virginia—Apr. 15, by State Hy. Comn., Charleston, 4.5 ft. widening 14.79 mi. Virginia Beach Blvd., Norfolk and Princess Anne Counties; grading 1.99 mi. roadway in Charlotte Co., and 3.89 mi. road in Richmond Co.; bituminous macadam surfacing 1.72 mi. roadway in Page Co. H. G. Shirley, chn.

W. Va., Dunbar — Apr. 19, by W. T. Moore, mayor, grading, paving, etc., various streets. O. L. Williams, clk.; adv. E. N.-R. Apr. 8.

W. Va., Huntington—Apr. 12, by Bd. City Comrs., grading, curbing and paving Indiana St. from Auburn Rd. to Riverside Dr.; Elmwood Ave. from 28th St. to St. Marys Hospital; Bear St. from Davis St. to Gills Driveway; Jackson Ave. from 17th to 18th Sts. W.; 6½ Alley from 17th St. to C. & O. Hospital; and alley between Artisan and 9th Aves. and from 18th to 19th Sts. A. B. Maupin, city engr.

Florida — Apr. 28, by State Rd. Dept., Tallahassee, clearing, grubbing, grading, etc. 14.2 mi. road in Seminole Co., 30 ft. L. B. Thrasher, Ocala, engr.

Louisiana—Apr. 27, by State Hy. Dept., Baton Rouge, graveling 5.21 mi. Lake Charles-Lake Arthur Highway, State Project 512-A, Jefferson Davis Parish; also constructing 5.1 mi. roadway embankment on Hammond-New Orleans Highway, State Project 156-C, St. John the Baptist and St. Charles Parishes. W. B. Robert, Reymond Bldg., highway engr.

Ohio—Apr. 16, by Dept. Highways & Pub. Wks., Columbus, G. F. Schlesinger, ch. engr. and Highway Director, grading, macadam, limestone, concrete bituminous macadam, paving, etc. 127.273 mi. various roads in approximately 24 counties. $2,000,000.

O., Marion — Apr. 15, by Bd. Control, asphalt paving Merkle Ave. from Uncapher St. to Whittier Ave., $27,951; also East Church St. from Reed to Kensington Sts., $65,422.

Ind., Anderson—May 15, by Comrs. Madison Co., curbing and concrete paving 1¾ mi. High Hill Rd., West 22nd St. from Brown to Raible Sts., 28 ft. $79,000. M. H. Steele, Court House, engr.

Ind., Indianapolis — Apr. 26, by Comrs. Marion Co., Courthouse, improving portion of Allisonville Pike, $32,586, and retaining wall for same, $15,664. H. Dunn, aud.

Mich., Adrian—Apr. 3, by Lenawee Co., 16 ft. bituminous macadam or waterbound macadam paving 4.379 mi. Assessment Dist. Rd. 59, Sect. 1; 2.042 mi. Dist. Rd. 58, Sect. 1; and 3.26 mi. Dist. Rd. 10, Sect. 2.

Mich., Bad Axe — Apr. 14, Huron Co., graveling 4.2 mi. A. D. Rd. 16 and 18, 3 mi. A. D. Rd. 14, and 4.5 mi. A. D. Rd. 26 B; also concrete paving 2 mi. roads in Villages of Knide and Owendale.

Mich., Grand Rapids—Apr. 13, by Kent Co., graveling 3.446 mi. road, Courtland Twp.

Mich., Mt. Clemens—Apr. 6, by Macomb Co., 20 ft. concrete paving 2.22 mi. Assessment Dist. Rd. 99, 6.549 mi. Dist. Rd. 89, and 2.39 mi. Dist. Rd. 86.

Wisconsin—Apr. 15, by State Hy. Comn., Div. Office 8, 1st Natl. Bank Bldg., Superior, **(F. A. P. means Federal Aid Project)**, grading, gravel surfacing, etc., 30,930 cu.yd. Spooner-Superior Rd., F. A. P. 377-C, Washburn Co.; 11,861 cu.yd. Cameron-Weyerhauser Rd., F. A. P. 372-A, Barron Co.; 13,956 cu.yd. same road, F. A. P. 372-B, Rusk Co.; 5,580 cu.yd. New Richmond-Turtle Lake Rd., F. A. P. 438-A, Polk Co.; and 3,263 cu.yd. Luck-Cumberland Rd., S. A. P. 8282, Polk Co. J. T. Donaghey, Madison, ch. engr.

Wisconsin—Apr. 16, by State Hy. Comn., Div. Office 5, La Crosse, improving 4.48 mi. New Lisbon-Sparta Rd., Federal Aid Project 325-A, Monroe Co., 20 acres clearing, 15.6 acres grubbing, 52,231 cu.yd. excav., 5,389 cu.yd. pea gravel and 10,447 cu.yd. 18 ft. shale surfacing, etc. J. T. Donaghey, Madison, ch. engr.

Wis., Burlington — Apr. 17, (extended date), by City and Racine Co., concrete paving 9,684 sq.yd. Burlington-Wilmot Ave. Rd., Racine Co. J. T. Donaghey, Madison, ch. engr. Noted Mar. 18.

Wis., Kaukauna—Apr. 16, by L. C. Wolf, city clk., rein.-con. or vibrolithic concrete paving 11,577 sq.yd. Taylor and Depot Sts. To exceed $25,000. F. M. Charlesworth, City Hall, engr.

Wis., Kenosha—Apr. 14, by J. Herzog, highway comr. Kenosha Co., grading, concrete paving, etc. 18,673 sq.yd. Kenosha-Paris Rd.

Wis., Madison—W. R. Winckler, city clk., taking bids asphalt paving, etc. 20,000 sq.yd. various streets. E. E. Parker, City Hall, engr.

Wis., West Allis — Apr. 12, by A. L. Wichner, supt. Pub. Wks., concrete, vibrolithic concrete, sheet asphalt or cold mix bituminous paving, etc. 72,700 sq.yd. 22 streets. W. Darby, City Hall, engr.

Ia., Cedar Rapids — Apr. 15, at office Auditor Linn Co. **(F. A. P. means Federal Aid Project)**, improving 5.87 mi. Marion Rd., F. A. P. 264-A, 81,270 cu.yd. excav., 42,000 sta.yd. overhaul, etc.; 7.74 mi. Fairfax Rd., F. A. P. 255-A, 87,834 cu.yd. excav., 68,700 sta.yd. overhaul, etc.; 4.303 mi. Coggon Rd., F. A. P. 230-D, 73,880 cu. yd. excav., 28,600 sta.yd. overhaul, etc.; 5.56 mi. Walker-Center Point Rd., F. A. P. 229-H, 58,799 cu.yd. excav., 56,000 sta.yd. overhaul, etc.; 2.68 mi. Walker Rd., F. A. P. 229-I, 41,833 cu.yd. excav., 8,800 sta.yd. overhaul, etc.; 5.803 mi. Coggon-Central City Rd., F. A. P. 443-A and B, 59,371 cu. yd. excav., 48,400 sta.yd. overhaul, etc.

Ia., Ft. Madison — Apr. 14, at office Auditor Lee Co., widening, resurfacing, etc. 1.4 mi. Keokuk-Montrose River Rd., 3,800 cu.yd. stone, 8,000 gal. asphaltic road oil or tar, 150 cu.yd. stone chips, etc. Address County Engineer, Ft. Madison.

Ia., Grundy Center — Apr. 14, at office Auditor Grundy Co., improving 4.882 mi. Butler-Black Hawk Co. line Rd., Federal Aid Project 266, 58,247 cu.yd. excav., 60,940 sta.yd. overhaul, etc.

Ia., Marshalltown — Apr. 12, at office Auditor Marshall Co., improving 19.098 mi. Projects S-91, S-92 and S-93, 140,356 cu.yd. excav., 67,000 sta.yd. overhaul, etc.; and 1.9 mi. road from Ferguson west, 21,019 cu.yd. excav., etc. D. C. Elder, Marshalltown, co. engr.

Ia., Newton — Apr. 13, at office Auditor Jasper Co., grading, etc. 161,380 cu.yd. Kellogg-Poweshiek Co. line Rd., Federal Aid Project F and G.

Minnesota—Apr. 20, by State Hy. Dept., St. Paul, **(F. A. P. means Federal Aid Project and S. P. means State Project)**, gravel surfacing 21,600 cu.yd. S. P. 2-32, Sect. 1, F. A. P. 348, $25,000, and 22,300 cu.yd. S. P. 4-29, Sect. 2, F. A. P. 342, $25,000; also grading 338,000 cu.yd. S. P. 52-21, F. A. P. 381, $67,000. Eng. Dept. State Hy. Dept., engrs.

Minn., Hastings — Apr. 19, by R. W. Downs, aud. Dakota Co., 7 in. one course concrete paving approximately 8,578 sq.yd. Job 2607, State Aid Rd. 7, 18 ft. Former bids rejected. Noted Mar. 11.

Minn., St. Paul — Apr. 13, by A. E. Eggert, city purch. agt., paving Aldine St. between University and Shields Aves., and Dale St. between Como Ave. and Wheelock Parkway, Contr. B. G. Shepard, city engr.

North Dakota — Apr. 20, by State Hy. Comn. and Comrs. Foster Co., Court House, Carrington, grading, etc. 19 mi. Federal Aid Project 295-A. C. Christensen, highway comr.

North Dakota — Apr. 20, by State Hy. Comn. and Comrs. Ramsey Co., Court House, Devils Lake, **(F. A. P. means Federal Aid Project)** gravel surfacing, etc. 9.669 mi. F.A.P. 224-A; 3.176 mi. F.A.P. 222; 0.65 mi. F.A.P. 155-B; 12.082 mi. F.A.P. 225; and 13.709 mi. F.A.P. 294-A. C. Christensen, highway comr.

North Dakota — Apr. 21, by State Hy. Dept. and Bd. Comrs. Steele Co., Court House, Finley, grading, etc. 9.239 mi. Federal Aid Project 325-B. C. Christensen, highway comr.

North Dakota — Apr. 23, by State Hy. Comn. and Comrs. Eddy Co., Court House, New Rockford, grading, etc. 6.523 mi. Federal Aid Project 296-A. C. Christensen, highway comr.

N. D., Dickinson—Apr. 28, by E. R. Griffin, Mandan, city aud., paving approximately 48 blocks various streets. $180,000.

Mo., Hannibal — Apr. 19, by City Clerk, sheet asphalt on brick paving 28,000 sq.yd. and brick paving 4,250 sq.yd. Bway. W. R. Gettler, City Hall, engr. Noted Mar. 18.

Mo., Platte City—Apr. 14, by City Clerk, bituminous macadam paving, etc., 23,375 sq.yd. various streets. $26,000. W. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, engrs.

Streets and Roads (Continued)

Tex., Abilene—Apr. 14, by L. C. McCanlies, resident engr., grading and bridging 5.74 mi. Highway 1, Federal Aid Project 468, for Taylor Co. $68,600.

Tex., Abilene—Apr. 14, by C. D. Speck, judge Taylor Co., grading, etc., 5.739 mi. Highway 1, Abilene-Taylor Co. line Rd., Federal Aid Project 468, 26 ft., incl. 4 rein.-con. bridges over 20 ft. span. $62,000. L. C. McCanlies, Abilene, engr.

Tex., Baird — Apr. 13, by T. H. Webb, engr., bituminous macadam paving 6.39 mi. Highway 1, Federal Aid Project 52-E, Unit 2, 18 ft. $150,000.

Tex., Big Springs — Apr. 15, by C. E. Thomas, mayor, grading, curbing, guttering, and 2 in. vitr. brick, 2 in. Uvalde rock, 6 in. concrete, 2 in. asphaltic concrete or 2 in. warrenite bitulithic concrete on 5 in. concrete paving, 45,000 sq.yd. various streets, incl. Highway 1. $120,000. R. W. Baker, Big Springs, engr.

Tex., Boston—Apr. 19, by S. J. Robinson, judge Bowie Co., grading, bridging and gravel surfacing 10.75 mi. State Highway 98, State Aid Project 644, 26 ft. $43,000. F. E. Hess, resident engr.

Tex., Brownsville — Apr. 16, by W. O. Washington, engr., Brownsville, O. C. Dancy, judge, and Comrs. Cameron Co., grading and bridging 24.35 mi. Highway 100, Point Isabel-Bareda Rd. $65,000.

Tex., Clarendon—Apr. 15, by City Secretary, paving 40,000 sq.yd. various streets. $175,000. Devlin Eng. Co., Central Bldg., Amarillo, engrs.

Tex., Hondo—Apr. 27, by R. J. Noonan, judge Medina Co., **(F. A. P. means Federal Aid Project)** 1 in. Uvalde rock asphalt or double bituminous surface treating 11.55 mi. State Highway 3, F.A.P. 270-A, Unit 2, $62,000; 10.47 mi. State Highway 3, F.A.P. 270-C, Unit 2, $56,000; and 7.85 mi. State Highway 3, F.A.P. 270-D, Unit 2, $42,000, all 17 ft. M. B. Hodges, Uvalde, co. engr.

Tex., Sherman—Apr. 15, by J. S. Ellingson, city mgr., curbing, guttering, grading and paving 107,000 sq.yd. various streets. $325,000. Address City Engineer.

Tex., Sweetwater — Apr. 15, by A. S. Mauzey, judge Nolan Co., double bituminous on caliche and sledged stone surfacing 161,786 sq.yd. Highway 1, Federal Aid Project 444-B, Unit 2, $348,400; and grading, bridging, etc., 7.82 mi. Highway 70, State Aid Project 534-C, 26 ft., $87,000. J. A. Focht, Sweetwater, co. engr. Noted Jan. 21 and Mar. 11.

Tex., Uvalde—Apr. 28, by H. C. King, judge Uvalde Co., surfacing with 1 in. Uvalde rock asphalt or double bituminous surface treating 5.879 mi. State Highway 3, F. A. P. 360-A, Unit 2, $32,000; 14.159 mi. F. A. P. 289-AC, $73,000; also 5.234 mi. F. A. P. 360-B, $28,000, all 17 ft. M. B. Hodges, Uvalde, co. engr.

Tex., Uvalde—Apr. 28, by Comrs. Uvalde Co., bituminous surfacing 255,946 sq.yd. Highway 3, 18 ft. $340,000. M. B. Hodges, resident engr.

Colorado—Apr. 15, by State Hy. Dept., Denver, concrete paving 50,700 sq.yd. road extending northerly from Husted on State Road 1, Federal Aid Project 275-C. L. D. Blauvelt, State Office Bldg., engr.

Colo., Grand Junction—Apr. 14, by City Council, curbing, guttering and 6 in. concrete on rock paving streets in Paving Dist. 15. F. A. Peck, city aud.

Wash., Kelso—Apr. 17, by Comrs. Cowlitz Co., improving Permanent Highway 12, 18,242 cu.yd. excav., 4,141 cu.yd. solid and 1,067 cu.yd. loose rock excav., 5,320 cu.yd. crushed rock surfacing, etc. $35,000. E. A. Middlebrook, Kelso, engr.

Wash., Mt. Vernon—Apr. 15, by Comrs. Skagit Co., concrete paving 1 mi. Pacific Highway between Edison and Edison Station. R. E. Knapp, Mt. Vernon, engr. Noted Apr. 1.

Wash., Olympia — Apr. 25, by Comrs. Thurston Co., clearing, grading and gravel surfacing 2.5 mi. Butlers Cove Rd. N. R. McKay, Olympia, engr.

Wash., Olympia — Apr. 19, by Comrs. Thurston Co., improving McIntosh-Tenino Rd., 3.9 acres clearing, 3.5 acres grubbing, 7,782 cu.yd. earth, 1,820 cu.yd. loose and 1,130 cu.yd. solid rock excav., etc. N. R. McKay, Olympia, engr.

California—Apr. 19, by State Hy. Comn., Sacramento, concrete widening approximately 2.1 mi. road between Borden and Madera, Madera Co. R. M. Morton, Forum Bldg., Sacramento, highway engr. Noted Apr. 1.

California—Apr. 26, by State Hy. Comn., Sacramento, concrete widening and asphaltic concrete surfacing 5.1 mi. road between Santa Barbara and Coleta, Santa Barbara Co. R. M. Morton, Forum Bldg., Sacramento, highway engr.

California—State Hy. Dept., Sacramento, taking bids asphaltic concrete surfacing and widening 2.8 mi. road point 1 mi. south of Delano and north county boundary, Kern Co. R. M. Morton, Forum Bldg., Sacramento, engr. Noted Feb. 25.

Calif., San Diego — Apr. 19, by Bd. Supervs. San Diego Co., improving Julian Rd. 3-A, 18,307 cu.yd. concrete on 5 in. paving 18 ft. wide, 7 in. edges, 9,081 lin.ft. concrete curbing, one 26 ft. 6 in. x 26 ft. 6 in., and one 24 ft. x 20 ft. 10 in. rein.-con. bridges, 496 ft. 16- to 36-in. c.i. pipe, etc. E. R. Childs, co. surv.

Saskatchewan — Apr. 7, by Dept. Hys., H. S. Carpenter, deputy minister, constructing 9 mi. Project 38-C-St. Walburg South, 12-B-d-Hague West, 13-C Kisbey East and West. $45,000.

Bids Received

Mass., Newton (Ind. br. Boston)—Curbings, walks and driveways on various streets, from O. A. Theurer, Watertown St., Watertown, Mass., $54,034.

N. Y., Buffalo—Dept. Pub. Wks., from Rock Asphalt & Constr. Co., Morgan Bldg., paving streets during 1926, asphalt topping $8.15 per ton, labor $0.89 per sq.yd., new stone $3.25 per sq.yd.; from H. P. Burgard Co., 1968 Filmore St., paving trenches under 80 yd. labor $5.55, material $7.70 per sq.yd., paving trenches between 80 and 1,000 sq.yd. labor $4.50 per sq.yd., material $7.00 per sq.yd., paving trenches over 1,000 sq.yd. labor $4.50 per sq.yd., material $7.00 per sq.yd., replacing stone along the street, railway tracks, etc., labor $2.75 per sq.yd., material $2.25 per sq.yd.; from Standard Paving Ltd., replacing 6 in. concrete base, etc., labor $1.40 per sq.yd., material $1.50 per sq.yd.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Apr. 2, grading, curbing and sidewalks on 74th (17th) St., from O'Brien & Kurth, Inc., 8625 137th St., Richmond Hill, $6,379; grading and restoring bituminous macadam paving over trenches in Rockaway Beach Blvd., from Sprague Constr. Co., Plaza Bldg., Far Rockaway, $6,542; repairing sheet asphalt paving in 1st and 2nd Wards, from Sicilian Asphalt Paving Co., 41 Park Row, New York City, $16,657. Noted Apr. 1.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Mar. 30, granite block paving Delafield Pl., etc., from J. Johnson Sons, 455 Bway., West New Brighton, $20,904; bituminous concrete repaving Morningstar Rd., etc., from J. E. Donovan Paving Co., 2205 Richmond Terrace, $42,664. Noted Mar. 25.

N. J., Trenton—Mercer Co., Courthouse, Mar. 30, cold application of tar, etc., approximately 50 mi. various roads, from Good Roads Co., Upper Darby, Pa., $27,214. Noted Mar. 25.

Pa., Bristol—Concrete paving 8,000 ft. Mill and Radcliffe Sts., from Union Paving Co., 30th and Locust Sts., Phila., $93,105. Noted Feb. 11.

Maryland—State Rds. Comn., Baltimore, concrete paving 2.69 mi. highway from Lisbon to Florence, Contr. Ho-41, Howard Co., from M. J. Grove Lime Co., Lime Kiln, $54,224; concrete shoulders on 5.33 mi. road from Rockville to Gaithersburg, Contr. M-1-A, Montgomery Co., from Gosnell, Russell Co., Frederick, $36,188.

Md., Baltimore — Bd. Awards, concrete paving 13,450 sq.yd. Contr. 320, from Aiello Contg. Co., 4th and Gough Sts., $36,806; sheet asphalt paving 11,740 sq.yd. Contr. 321, from Baltimore Asphalt Block & Tile Co., 1320 North Monroe St. $56,792, and 22,000 sq.yd. Contr. 322, from Amer. Paving Co., Montbello Ave., $103,203. Noted Mar. 25.

W. Va., Winfield—Putnam Co., grading Projects 3326-C and 332-A, Buffalo and Union Dists., from Smith & Bender, Inc., Nitro, $47,458.

Tenn., Chattanooga — Asphalt and concrete paving 12 various streets, from Gamble Constr. Co., Power Bldg., approximately $150,000.

O., Cleveland—Bd. Comrs. Cuyahoga Co., Mar. 24, grading, curbing and Lake asphalt paving 51,000 sq.yd. Ridge Rd., from Baldwin Bros., 4500 Euclid Ave. $164,340, and 58,000 sq.yd. North Miles Rd., from Enterprise Paving & Constr. Co., 8436 Bway., $180,780; 8 in. concrete paving 6,800 sq.yd. Mackenzie Rd. 2, from Good Constr. Co., Leader-News Bldg., $24,501. Noted Mar. 18.

Wis., Beloit — Bd. Pub. Wks., Mar. 22, from Western Asphalt Corp., Sioux City, Ia., paving various streets, rein.-con. $130,220, sheet asphalt $132,300, asphaltic concrete $123,820, sheet asphalt on vibrolithic concrete $136,320; and from G. Welch, 206 Water St., vibrolithic concrete $157,620. Noted Mar. 18.

Wis., Milwaukee—Dept. Pub. Wks., R. Stoelting, comr., Mar. 25, from W. F. Hunt, 405 Bway., vibrolithic concrete paving American Ave. $32,173, Euclid Ave. $12,348, 4th Ave. $30,626, Midland Ave. [illegible] 326, Ohio St. $11,125, and 7th Ave. $34,[illegible] from Troemming Bros., 1326 Humboldt Ave. Ellen St. $38,226, from J. C. Bluhm & Son, 1298 Achilles Pl., 57th St. $11,234, from A. E. Retzlaff, 868 Island Ave., 40th St. $10,458, Galena St. $8,988, and Hadley St. $8,270, from Tex Constr. Co., 446 68th Ave. Hope Ave. $24,117, from Kroening Constr. Co., 39th Ave. and Mitchell St., 34th Ave. $4,101; from Gumz & Switalski, 831 13th Ave., Lenox St. $51,184, Hanson Ave. $7,557, Griffin Ave. $7,616, and Clement Ave. $3,264, also one course rein.-con. paving Clement St. $3,387, from White Constr. Co., 68 Wisconsin St., Ellen St. $35,297, Hanson St. $7,288, and Griffin Ave. $7,141; and from C. H. Slattery, 584 71st Ave., concrete sidewalks on 48th St. $10,458. Noted Mar. 25.

Wis., Milwaukee—Dept. Pub. Wks., R. Stoelting, comr., Mar. 26, concrete paving 26,098 sq.yd. 17 alleys, 3 alleys, from W. F. Hunt, 405 Bway., $9,748; 4 alleys, from C. H. Slattery, 584 71st Ave., $20,415; 1 alley, from N. Harris, 417 Juneau Pl., $1,634; 2 alleys, from G. W. Hirth, 1367 7th St., $1,535; 1 alley, from Ryback & Sadowski, 1092 2nd Ave., $18,451; and 3 alleys, from J. C. Bluhm & Son, 1298 Achilles Pl., $12,694.

Wis., Waukesha — C. J. Hahn, highway comr. Waukesha Co., Mar. 30, improving Genesee-Mukwonago Rd., 51,531 cu.yd. earth, 50 cu.yd. solid and 300 cu.yd. loose rock excav., and 61,452 sq.yd. concrete paving, etc., from Nolan Bros., 18 North 2nd St., Minneapolis, Minn., $147,182. Noted Mar. 25.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, Mar. 16, **(e. e. means engineers estimate)**, widening 18,800 sq.yd. Franklin St., from Blackburn-Crean Constr. Co., 4030 Chouteau Ave., $127,637, e. e. $132,000; brick on concrete paving 3,215 sq.yd. Beacon St., from Skrainka Constr. Co., Security Bldg., $19,094 e. e. $19,500, and 5,660 sq.yd. Magnolia St., from Eyerman Constr. Co., 1216 South Grand Blvd., $32,356 e. e. $33,700; Warrenite bitulithic concrete paving, etc., 3,265 sq.yd. Childress St., and 3,435 sq.yd. Geraldine St., from Bituminous Paving Co., Ry. Exch. Bldg., $18,596 e. e. $18,700 and $20,150 e. e. $20,300 respectively; asphaltic concrete paving, etc., 3,365 sq.yd. Tennessee St., from C. A. Moreno, Syndicate Trust Bldg., $24,237 e. e. $23,800; and asphalt paving 2,515 sq.yd. Maryland Ave., from Bridge Asphalt Paving Co., Buder Bldg., $15,703 e. e. $15,800. Noted Feb. 25.

Wash., Seattle—From F. Arcorace, 8423 48th Ave. S., improving Juneau St. et al., 2,700 cu.yd. subgrading at $0.70 per cu.yd., 10,660 sq.yd. concrete paving, $1.60, etc., total $26,218.

Calif., Los Angeles—Supervs. Los Angeles Co., Mar. 22, from G. D. Nichols, P. O. 572, Inglewood, improving Alameda St. et al., 16,086 lin.ft. curbing $0.40 per lin.ft., 32,976 lin.ft. 6 in. guttering $0.20 and 3,994 lin.ft. 8 in. guttering $0.25, 31,536 lin.ft. sidewalk $0.15, 10,399 cu.yd. earth excav. $0.35, 229,646 sq.ft. disintegrated granite surfacing $0.04, total $33,439. Engrs. est. $38,714.

Calif., Los Angeles—Bd. Pub. Wks., from E. L. Fleming, 105 North Park Ave., improving Sayre Ave., 1,432 lin.ft. curbing at $0.55 per lin.ft., 3,813 sq.ft. combination guttering $0.22, 182,118 sq.ft. 6 in. asphaltic concrete paving $0.24, 35,234 sq.ft. 6 in. concrete base $0.21, etc., total $120,486; from Thurston & McGovern, 518 South Catalina St., Redondo Beach, Willmington Blvd., 16,369 lin.ft. curbing $0.55, 461,551 sq.ft. sidewalk $0.135, 852 sq.ft. sheet asphalt paving $0.10, 852 sq.ft. asphaltic concrete paving $0.25, etc., total $93,229; from L. Miletich, 610 West 54th St., improving Beverly Blvd., $50,000; and from J. Martin, 789 Lyon Ave., Radford Ave., 10,714 cu.yd. earth excav. $3,400, 29,550 sq.ft. 8 in. concrete paving $0.215, and 79,906 sq.ft. on 6 in. concrete base $0.18, etc., total $26,869. Noted Mar. 11.

Calif., Los Angeles—Bd. Pub. Wks., from J. Martin, 789 Lyon St., improving Radford Ave. between Clyburn Ave. and San Fernando Rd., grading $3,400, 29,550 sq.ft. 8 in. concrete paving at $0.215 per ft., 79,906 sq.ft. 6 in. concrete paving $0.18, etc., total $26,869. Noted Mar. 11.

Calif., Palo Alto—From Warren Constr. Co., 1305 28th St., Oakland, improving Santa Ynez, California Ave., Nevada and Cowper Sts., 106,600 sq.ft. grading at $0.28 per sq.ft., 90,700 sq.ft. 1½ in. Warrenite on 2 in. rock and 2½ in. asphaltic concrete paving $0.216, etc., total $45,904.

Calif., San Diego—Common Council, Mar. 29, from G. R. Daley, 4430 Boundary St., improving Louisiana St. between El Cajon and Adams Aves., 114,912 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete paving $0.219 per sq.ft., 3,732 sq.ft. concrete sidewalk $0.22, 77 lin.ft. concrete curbing $0.65, etc., total $33,684. Noted Mar. 18.

Streets and Roads (Continued)

Calif., Santa Monica—City Council, from Kneen Paving Co., Dudley Blk., improving Colorado Ave. between 14th St. and northeast city boundary, 582,283 sq.ft. grading at $0.065 per sq.ft., 426,131 sq.ft. Warrenite bituminous paving $0.199, 15,059 ft. curbing $0.55, etc. Noted Feb. 25.

Alta., Edmonton — See "Contracts Awarded."

Contracts Awarded

Rhode Island—State Bd. Pub. Rds., State House, Providence, concrete paving roads in North Providence, to Lane Constr. Co., 37 Colony St., Meriden, Conn., $56,154; in Warick, to Hudson Constr. Co., Newport, R. I., $73,026; in North Smithfield, to Perini & Sons, Inc., Ashland, Mass., $77,876; in Foster, to Kelliher Bros., Turner Falls, Mass., $30,992. Grand total $238,048.

Conn., Manchester—Bd. Selectmen, curbing, guttering and driveways, to Ahern Bros., East Windsor Hill, East Hartford. Engrs. est. $45,000. Noted Mar. 25.

N. Y., New York—W. J. Flynn, acting pres. Bronx Boro, Crotona Park, Tremont and 3rd Aves., to C. D. Beckwith, 2875 Bway., sheet asphalt paving Bryant Ave. $11,095, Rochambeau Ave. $24,966, and East 210th St. $29,980, bituminous concrete paving Garden St. $4,277, and grading Miriam St. $8,441; to Asphalt Constr. Co., 208 Bway., sheet asphalt paving Walton Ave. $40,930, East 205th St. $29,991, granite block paving Fordham Rd. $37,968, and Tremont Ave. $46,105; to S. Nugent, 285 West 205th St., grading West 174th St., $32,536; and to L. Di Minna, 2366 Lorillard Pl., granite block paving Bronx St., $22,-216. Grand total $288,505. Noted Apr. 1.

Pennsylvania—State Hy. Dept., Harrisburg, **(R. means Route)**, rein.-con. paving, etc. 3,584 sq.yd. R. 268, Sect. 9, Washington Co., to T. W. Munro & Co., DuBois, $28,538; 13,107 sq.yd. R. 111, Greene Co., to Mosteller & Virgin, Wilkinsburg, $99,402; 50,636 sq.yd. R. 130, Delaware Co., to W. Eisenberg, Smith-Austermuhl Bldg., Camden, N. J., $174,890; 57,738 sq.yd. R. 242, Sect. 3, Washington Co., to Blue Ridge Constr. Co., Uniontown, $285,499; and 22,-166 sq.yd. R. 135, Sect. 5, Delaware Co., to Ambler Davis Co., Phila., $104,514. Grand total $588,329. Noted Mar. 4 and Mar. 11.

Pa., Ebensburg — Comrs. Cambria Co., concrete paving, etc. 3,200 ft. Menoher Highway, 18 ft., to McClure & Binger, Johnstown, $31,261.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to R. B. Wenner, 2313 Walnut St., grading Aramingo St. $3,670, Ditman St. $2,226, Glenrock and Jackson Sts. $2,328, and Loney, Loretta and Ripley Sts. $26,112, to Dewees Bros., 7200 Shelbourne St., Hunting Park Ave., Cayuga, Claridge, Dungan, Glendale, Howland, Luzerne, Markland, N. Nelson and Ormond Sts. $62,657, to S. C. Ratzell, Limekiln Pike and Haines St., Lowber, Pastorious, Rodney and Wynsam Sts. $24,389, to J. D. Dorney, 2503 East Norris St., Magee St. $12,028, and Ruth St. $754; to Eastern Asphalt Paving Co., Penn. Bldg., asphalt paving (assessment work), Alresford St. $2,695, 16th St. $10,169, asphalt repaving Wharton St. $36,991, and 43rd St. $8,692; to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., asphalt paving Walnut St. $9,404, 20th St. $14,547; to Acchione & Caruso, 804 South 12th St., redressed granite block repaving Addison, Clover, Filbert, Ludlow, Manning and St. James Sts. $37,223, to Municipal Paving Co., 702 Catharine St., track area of Spruce St. $51,617, 16th St. and 16th St. track area $31,497, 17th St. and 17th St. track area $74,518, to Baton Constr. Co., 1713 Sansom St., Spruce St. track area between 34th and Woodland Sts. $14,105, and 69th St. track area $25,128; to F. C. Graham, 5707 North 7th St., curb and footway work (property owners to pay) 3rd Highway Dist. $9,293; to Phila. Stock & Tank Wks., 50 North 23rd St., structural steel for Bridge 260, over Pennsylvania R.R. tracks $3,085; to J. Meehan & Son, 916 West Dakota St., furnishing and delivering wood blocks $880; to Union Paving Co., 30th and Locust Sts., improving Broad St. and Packer Ave. intersection $17,183; and to Headley Good Roads Co., Franklin Bldg., furnishing and applying dust layer (road oil) $1,184. Grand total $431,375. Noted Mar. 25.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to Frank Mark Constr. Co., N and Winghocking Sts., grading Bellfield and Cliveden Sts. $20,381, and Hellerman St. $7,346, to Dewees Bros., 7200 Shelbourne St., Cottage St. $3,168, to Morrissey Bros., 4345 North 7th St., Godfrey St. $4,627, Ripley and Napfle Sts. $9,364, and Smylie St. $2,951, to Root Bros., Ridge Ave. and Righter St., Manatawna St. $678, to M. J. McCrudden, Real Estate Trust Bldg., Penn and Vaux Sts. $12,762, and Tilden St. $15,-091, to S. C. Ratzell, Limekiln Pike and Haines St., Wadsworth St. $1,705; to Eastern Asphalt Paving Co., Penna. Bldg., asphalt repaving Brown, Master, Parrish, Wallace and 36th Sts. $75,896, and Orthodox St. and Orthodox St. (track area) $34,-363, to Union Paving Co., 30th and Locust Sts., Lehigh St. $94,987, and removing circular plot on Broad St. south of Oregon Ave. $2,994; to United Paving Co., Real Estate Trust Bldg., redressed granite block repaving (track areas) Chester and 65th Sts. $19,799, and to Municipal Paving Co., 702 Catharine St., 2nd St. $38,611; to W. A. Mundy, 226 South Warnock St., repairing Erie Ave. Bridge 109 $2,990 and Clarissa Bridge 88 $2,490; to J. Meehan & Son, 916 South Dakota St., smooth dressed granite blocks $2,594; and to J. A. Murray, 5141 Ludlow St., redressed granite block work $3,700. Grand total $356,497.

Pa., Uniontown — E. Huston, controller Fayette Co., concrete on slag paving 2 mi. Flat Rock-Five Forks Rd., to C. R. McIntyre, Uniontown, $97,799; and 1.55 mi. Fayette City-Bolle Vernon Rd., to Frasier & Mansfield, McKeesport, $101,538. Noted Mar. 18.

Md., Towson — Comrs. Baltimore Co., Courthouse, concrete paving 2.03 mi. Group 3, Middletown, Graystone and Old York Rds., to Ward & O'Connell, New Amsterdam Bldg., Baltimore, $57,355. Noted Apr. 1.

W. Va., Harrisville—Ritchie Co., grading, etc. 2.54 mi. Harrisville-Auburn Rd., Union Dist., to J. L. Holbert & Sons Co., Shinnston, $28,045; 7.44 mi. Parkersburg-Staunton Pike Rd., Murphy Dist., to Rice Constr. Co., Belmont, O., $90,276; and sections of Projects 3266 and 3342, to Boso & Ritchie, Ravenswood, $159,130. Grand total $277,-451.

W. Va., Williamson—Mingo Co., Bermuda asphaltic macadam paving street through Matewan, to Warwick & Linkoos, Williamson, $29,771. Noted Mar. 4.

Fla., La Belle—Bd. City Comrs., cement sidewalks, grading, guttering and paving various streets, to W. T. Taylor, LaBelle, $810,000. Noted Feb. 18.

Fla., Sarasota—Paving Payne Parkway, Morrill and Laurel Aves., West 8th and West 13th Sts., to J. Stanton Constr. Co., Sarasota. $124,063.

Fla., Wauchula—Paving 8¾ mi. various streets, to W. P. McDonald Constr. Co., Wauchula, $408,000.

Ala., Huntsville — Asphalt on concrete paving 10 mi. various streets, 40-60 ft., to W. J. Runyon Saving Co., Sheffield, $450,-000. Engrs. est. $500,000. Noted Feb. 11.

Miss., Biloxi — Curbing, guttering and concrete sidewalks on streets in Biloxi Bay Addition, to R. D. Moore, Jr., Biloxi, approximately $25,000.

La., Bastrop — Police Jury Morehouse Parish, graveling 6 mi. Bastrop-Monroe Highway, Project 5, to M. Tansey, Gallion, $20,000; also 4,500 cu.yd. washed gravel for project, to Central Gravel Co., New Orleans, $10,000. Noted Mar. 11.

Tenn., Pikeville—Bledsoe Co. and State Dept. Highways & Pub. Wks., Nashville, plans improving 10 mi. Pikeville-Spencer Rd. Work will probably be done by day labor, under supervision of Dept. Highways & Pub. Wks. C. N. Bass, comr.

Ohio—Dept. Highways & Pub. Wks., Columbus, grading and concrete paving 3.275 mi. Sect. "H" Hamilton-Eaton Rd., Butler Co., and 0.56 mi. Sect. "Somerville" same road, to Central Constr. Co., Columbus, $93,651 and $13,161 respectively, 0.531 mi. Sect. "Salineville" Salineville-Wellsville Rd., Columbiana Co., to Lewis & Copeland, Lima, $18,605, 0.158 mi. Sect. "B-1" Ceylon-Norwalk Rd., Erie Co., and 0.628 mi. Sect. "Berlin Heights" same road, to Pettibone & Graves, Lakeside, $3,980 and $25,-700 respectively, 0.256 mi. Sect. "E" Ceylon-Norwalk Rd., Huron Co., to J. A. Baltes, Norwalk, $7,783, 3.035 mi. Sect. "C-2" Mt. Vernon Mt. Gilead Rd., Knox Co., to Erman & Seible, Defiance, $80,699; surface treated macadam paving 3.12 mi. Sect. "F-1" Delaware-London Rd., Delaware Co., to L. L. Clymer, Bluffton, $48,-023; bituminous macadam paving 1.032 mi. Sect. "C" Cambridge-Barnesville Rd., Guernsey Co., to C. A. Baker, Columbus, $33,853, 5.725 mi. Sect. "A" Ohio River Rd., Hamilton Co., to O. F. Moore, Newport, Ky., $314,407, 2.789 mi. Sect. "C" Shelby-Ashland Rd., Richland Co., to J. H. Blausey, Woodsville, $78,842, 3.56 mi. Sect. "B-1" and "C" Burton-Bloomfield Rd., Trumbull Co., to Mahoning Constr. Co., Warren, $92,994; grading, etc., 2.421 mi. Sect. "L" Lancaster-New Lexington Rd., Fairfield Co., to F. H. Beckler, Athens, $34,-684, 0.322 mi. Sects. "A," "M," "N" and "O" Ohio River Rd., Gallia Co., to I. H. Kiehner, Jackson, $12,096; crushing, hauling and spreading limestone on 8.2 mi. Sects. "I" and "M" Jackson-Pomeroy Rd., Meigs Co., and 5.8 mi. Sect. "N" Jackson-Pomeroy Rd., Vinton Co., to G. R. Stinchcomb, Columbus, $7,622 and $9,253 respectively; grading, finishing shoulders and slopes, etc., on 0.322 mi. Sect. "H" Ohio River Rd., Washington Co., to W. E. McGee & Son, Chillicothe, $26,556. Grand total $901,909. Noted Apr. 1.

O., Canton — Asphalt paving Maryland Ave. S. W., from 9th St. to Navarre Rd. S. W., to Cable Co., Genl. Del., Canton, $29,746. Engrs. est. $35,000.

O., Cincinnati—Comrs. Hamilton Co., **(e. e. means engrs. est.)** tar bound macadam paving 8,600 sq.yd. School Sect. Rd. from Reemlin Rd. to Harrison Pk., to F. Franz & Sons, North Bend, $19,584, e. e. $25,000; 22,600 sq.yd. Muddy Creek Rd. from Bridgetown Pk. to Ebenzer Rd., and 12,700 sq.yd. Linneman Rd. from Muddy Creek Rd. to Neeb Rds., to J. A. Nickoson, Sayler Park Sta., $54,254 and $28,669 respectively, e. e. $58,998 and $30,705 respectively; 8,200 sq.yd. Livingston Rd. from Blue Rock to Poole Rds., to J. S. Sloan, 2312 Mound Ave., Norwood, $19,932, e. e. $25,000. Grand total $122,439. Noted Mar. 25.

O., Columbus — H. W. Duffy, dir. Pub. Serv., grading, curbing, laying necessary water services, sewer connections, widening, relocating cluster lights and asphalt paving 2,085.5 ft. Front St., 52.5 ft. and grading, curbing, asphalt paving, etc. 876 ft. Kossuth St., 26 ft., to Franklin Asphalt Paving Co., 559 Short St., $37,787 and $10,121 respectively, 800 ft. 22nd St. Ave., 26 ft., to Pyle-Burns Constr. Co., 8 East Long St., $7,125; brick paving, etc. 448 ft. Gorman St., 33 ft., to R. J. Dienst, 209 South High St., $4,173. Grand total $59,-206. Noted Mar. 18.

Mich., Corunna—Shiawasee Co., graveling 4 mi. Dist. 68 Rd., to R. B. Richardson, Hazelton, $25,587.

Mich., Grand Haven—Ottawa Co., rein.-con. paving 3½ mi. Assessment Rd. 9, on Bridge St., 18 ft., to P. W. O'Connor, 250 Charles St., Grand Rapids, $119,000.

Mich., Monroe—Monroe Co., waterbound macadam paving 4.1 mi. Bedford Erie Rd., 16 ft., to H. H. Gens, Oak Harbor, $90,529; and 3.2 mi. Bedford Erie Rd., Sect. A, 26 ft., to C. M. Gray, Waterville, O., $68,130.

Mich., Orion—Oakland Co. (Pontiac) 20 ft. paving various roads, here, to Taylor Constr. Co., Birmingham, $62,292.

Mich., Pontiac—Oakland Co., 20 ft. paving Orchard Lake Rd., to Bartling & Dull, Pontiac, $112,563.

Mich., Waterford—Oakland Co. (Pontiac) 20 ft. paving various roads, here, to Taylor Constr. Co., Birmingham, $25,014.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, grading, curbing, guttering and asphalt on 6 in. concrete paving Altgeld St. from North Lavergne to North Lockwood Aves., Cortland St. from Mansfield to North Austin Aves., Montana St. from North Cicero to North Lockwood Aves., also grading and preparing present macadam pavement to serve as foundation and 2 in. asphaltic concrete resurfacing Ferdinand St. from North Kilpatrick to North Cicero Aves., to White Paving Co., 1735 Fulton Ave.; grading, curbing, guttering and 8 in. concrete paving Throop St. from West 90th to West 95th Sts., to Smith & Brown, 111 West Washington St.; grading, curbing, guttering and asphalt on 6 in. concrete paving Wentworth Ave. from Illinois Central R.R. tracks to West 123rd St., West 121st St. from South St. to Wentworth Ave., Lafayette and Perry Aves. and South La Salle St. from West 121st to West 123rd Sts., to Amer. Asphalt Paving Co., 844 Rush St.; grading, curbing, guttering and 8 in. concrete paving Bowmanville Ave. from Berwin to Balmoral Aves., Balmoral Ave. from Bowmanville to North Hoyne Aves., North Hoyne Ave. from Balmoral to Foster Aves. and Farragut Ave. from North Hoyne Ave. to Robey St., to Marquette Constr. Co., 4726 North Winchester St.; grading, curbing, guttering and reshaping present macadam for foundation and 2 in. asphaltic concrete resurfacing Kimbark Ave. from East 60th to East 67th Sts., and East 65th St. from Woodlawn to Kimbark Aves., also grading, curbing, guttering and 6 in. concrete paving South Winchester Ave., to R. F. Conway Co., 844 Rush St.; grading, curbing, guttering and 6 in. concrete surfacing 5th Ave. from North Washtenaw to North California Aves., Estes Ave. from North Rockwell St. to North California Ave., Greenleaf Ave. from North Rockwell St. to North California Ave., and North Washtenaw Ave. from Lunt to Kenilworth Aves., to Contracting & Material Co., 133 West Washington St. Noted Feb. 25 and Mar. 18.

Ill., Kankakee—Curbing and 7 in. rein.-con. paving 11,800 sq.yd. East Merchant St., to C. Paradis Co., St. Anne, $31,014.

Ia., Elkador—Clayton Co., to Jack Brown Constr. Co., Madison Lake, Minn., improving roads, 98,821 cu.yd. excav. at $0.255 per cu.yd., 992 ft. 15 in. curbing $0.30, 304

Streets and Roads (Continued)

ft. 18 in. culvert $0.40, and 150 ft. 24 in. culvert $0.40.

Ia., Mason City—Cerro Gordo Co., to L. O. Kimball, Clear Lake, improving 7 mi. road, 55,604 cu.yd. excav. at $0.33 per cu. yd., 86,409 stable yds. overhaul $0.02, and 820 ft. culvert labor $0.25.

Ia., Sigourney—R. E. Richardson, city clk., to J. C. Blunk, Ottumwa, 6 in. rein.-con. paving, using gravel aggregate, 35 blocks various streets, at $1.91 per sq.yd., and 8 in. rein.-con. using limestone aggregate, 35 blocks at $2.28. Engrs. est. $180,000. Noted Mar. 11.

Ia., Winterset — Madison Co., to R. T. Osman, Ames, improving 5.3 mi. Primary Rd. 15, Federal Aid Project 236, 72,397 cu.yd. excav. at $0.217 per cu.yd., 200 cu.yd. excav. $0.50, 580 ft. 15 in. culvert labor $0.50 and 40 ft. 24 in. culvert labor $1; and to G. Cronkhite, Perry, 1,850 ft. 6 in. tile drain at $0.15 per ft., 350 ft. 8 in. tile drain $0.20, and 11 intake $25. Noted Mar. 18.

Minn., Fergus Falls—W. Lincoln, aud. Otter Tail Co., grading, etc., 8.25 mi. Vining-Almora Rd., to Studer & Manion, 509 Globe Bldg., Minneapolis, $28,469.

Minn., St. Paul—Grading Montreal Ave. between Edgcumbe Rd. and West 7th St., to Thornton Bros., 318 Endicott Bldg., $37,-387; and Montreal Ave. between Cleveland Ave. and Edgcumbe Rd., to M. Wunderlich, 1171 Charles St., $23,897.

Kan., Russell Springs—Logan Co., grading, etc., 2.992 mi. Federal Aid Project 247-A, to A. J. Canaday, Scott City, $14,-444. Noted Mar. 11.

Kan., Waverly—Vitr. brick on 5 in. concrete paving various streets, to C. J. McCoy Constr. Co., Emporia, $26,563.

Kan., Eldorado—City and Butler Co., concrete paving 0.96 mi. various roads, 18 ft., to Lewis, Sehide & Kennedy, Eldorado, $28,599.

Nebraska—State Hy. Dept., Lincoln, **(F. A. P. means Federal Aid Project)**, to Union Constr. Co., Kearney, 2 in. gravel surfacing 7 mi. Elwood-Smithfield Rd., F. A. P. 11, Gosper Co., $20,068, and grading, etc., 7.2 mi. Lexington-Elwood Rd., F. A. P. 252-A, Dawson Co., $25,366; to Allied Contractors, Inc., 1803 Douglas St., Omaha, grading, 2 in. gravel surfacing, bridges, etc., on 15.6 mi. Litchfield-Broken Bow Rd., F. A. P. 22-B-C-E, $48,920, concrete culverts on 7.8 mi. Arnold-Merna Rd., F. A. P. 96-C, and on 2.28 mi. same road F. A. P. 188-C, $2,433, all Custer Co.; to Custer Co. Rd., Broken Bow, grading 6.2 mi. Litchfield-Broken Bow Rd., F. A. P. 22-B, C, D and E, Custer Co., $32,283; to Reed & Kennedy, Dalton, 2 in. gravel surfacing 19.5 mi. Overton-Cozad Rd., F. A. P. 39, Dawson Co., $25,430, 9.2 mi. Dix-Kimball Rd., F. A. P. 147-A, Kimball Co., $10,111, and 10.2 mi. Sidney-West Rd., F. A. P. 149-D, Cheyenne Co., $9,101; to C. H. King, Indianola, grading 3.4 mi. McCook-Bartley Rd., F. A. P. 46, Red Willow Co., $3,113; to A. Carter, McCook, 2 and 3 in. gravel surfacing same road, $5,503; to Standard Bridge Co., Omaha, grading same road, $7,106; to D. C. Condon, Omaha, grading 7.8 mi. road from Hayes Center west, F. A. P. 63-A, Hayes Co., $25,633, 3.4 mi. Atlanta-Oxford Rd., F. A. P. 145-A, Phelps Co., $6,239, and 10.7 mi. Loomis-Bertrand Rd., F. A. P. 251-B, Phelps Co., $16,573; to A. C. Smith, Scottsbluff, grading, 2 in. gravel surfacing, etc., 5 mi. Gering-Harrisburg Rd., F. A. P. 69-B, Scottsbluff Co., $12,988, to Martin & Clark, Scottsbluff, 3.5 mi. Chadron-Bordeaux Rd., F. A. P. 124-B, Dawes Co., $13,515, and 10.2 mi. road from Sidney west, F. A. P. 149-D, Cheyenne Co., $13,647, to F. McCarter, Bayard, 11.9 mi. Merriman-Ely Rd., F. A. P. 202-D, Cherry Co., $62,638, to E. L. Marrs, Hebron, 13.5 mi. Eli-Cody Rd., F. A. P. 202-E, Cherry Co., $90,403; and to Peterson Shirley & Gunther, Omaha, 10.5 mi. Grant-Brandon Rd., F. A. P. 264-A, Perkins Co., $21,310; to Roberts Constr. Co., Lincoln, 2 in. gravel surfacing 10.9 mi. Merriman-Gordon Rd., F. A. P. 202-A, Cherry Co., $29,200, to Abel Constr. Co., 318 Terminal Bldg., Lincoln, 2 in. gravel surfacing 10.7 mi. Loomis-Bertrand Rd., F. A. P. 251-B, Phelps Co., $24,-208; to S. F. Walter, Franklin, 1 bridge on Bayard-Bridgeport Rd., F. A. P. 79-D, Morrill Co., $7,496; to Nebraska Culvert & Mfg. Co., Wahoo, corrugated culverts on 7.8 mi. road from Heyes Center west, F. A. P. 63-A, Hayes Co., $8,008. Grand total $521,302. Noted Feb. 4.

North Dakota — State Hy. Dept. and Comrs. Pierce Co., Court House, Rugby, gravel surfacing, etc., 16.034 mi. Federal Aid Project 204-A-B, to Tobin & Maloney, Madison, S. D., $23,048. Noted Feb. 25.

North Dakota — State Hy. Dept. and Comrs. Sargent Co., Court House, Forman, grading, etc., 56,600 cu.yd. Federal Aid Project 191, to N. Brolander, Wahpeton, $25,551.

North Dakota—State Hy. Dept., Bismark, **(F. A. P. means Federal Aid Project)**, gravel surfacing 9.111 mi. F. A. P. 82, Ward Co., to M. E. Thompson, Minot, $10,-181, 6.468 mi. F. A. P. 203, Benson Co., and F. A. P. 221-C, Ransom Co., to Tobin & Maloney, Madison, S. D., $6,643 and $3,360 respectively, and 11.999 mi. F. A. P. 89, Sargent Co., to H. Pickus Constr. Co., Sioux City, Ia., $18,498; also grading, etc., 5.338 mi. F. A. P. 251-B, Morton Co., to W. L. Chapin, McIntosh, S. D., $18,434. Grand total $57,116. Noted Feb. 25 and Mar. 11.

Ark., Warren—For 3 in. brick on 5 in. concrete paving 4,260 sq.yd. streets in Dist. 2, and 2½ in. brick on 5 in. concrete surfacing 11,850 sq.yd. streets in Dist. 3, to Cook & Ransome, Ottawa, Kan., $17,139 and $49,115 respectively.

Tex., Liberty—Liberty Co., making plans shell surfacing 7½ mi. Highway 61 from Devers at intersection of Highway 3 to Chambers Co. line $45,000. A. C. Love, Liberty, engr.

Tex., Liberty—Liberty Co., shell surfacing 5.821 mi. and concrete paving 16.474 mi. State Highway 3. Federal Aid Project 352. Units 3 and 4, 18 ft., to F. P. McElwrath. Corsicana. $419,220. Engrs. est. $475,000. Noted Mar. 25.

Tex., Linden—Cass Co., grading, bridging and gravel surfacing 5.64 mi. Federal Aid Project 457-A, to P. B. Price & Co., Paris, $59,782.

Tex., Memphis—Hall Co., 2½ in. brick on 4 in. concrete paving various streets, to Panhandle Constr. Co., Lubbock, $181,550. Engrs. est. $190,000.

Tex., Memphis—For 2½ in. brick on 4 in. concrete paving 60,000 yd. various streets, to Panhandle Constr. Co., Lubbock, $181,550. Noted Mar. 25.

Okla., Durant — Grading and concrete paving 12,420 sq.yd. 1st, South 9th and East Main Sts., to E. C. Baum, Durant, $38,325. Engrs. est. $40,000.

Calif., Blythe — City Trustees, curbing, walks, ornamental lighting system, and asphaltic concrete surfacing Hobsonway, Spring St., etc., to Southwest Paving Co., Washington Bldg., Los Angeles. Noted Mar. 25.

Calif., El Monte—Curbing, walks, vitrolithic concrete paving, etc., Tyler St., etc., to Hall-Johnson Co., 905 Westminster St., Alhambra, $37,872. Noted Feb. 25.

Calif., Los Angeles—Curbing, guttering, walks, and remodel asphaltic concrete paving, etc., 7,080 sq.ft. 84th St. between Bway. and Figueroa St., to W. Liddington, 420 East 60th St., $44,435. Noted Mar. 25.

Calif., Los Angeles—Grading, paving, asphaltic concrete paving, etc., Vineland Ave. between Central Ave. and Ventura Blvd., to Southern Pacific Constr. Co., 2813 South Glendale Blvd. $63,971, and Virginia Ave. between Western and Bronson Aves., to W. J. Curren, 221 A West Bway., Glendale, $43,946; also 147,029 sq.ft. cement walks in Municipal Impvt. Dist. 37, to Boulevard Land Co., 111 West 4th St., $0.175 per sq. ft. Noted Feb. 18 and Mar. 18.

Calif., Los Angeles—Supervs. Los Angeles Co., grading and concrete paving, etc. 165,-811 sq.ft. Prairie Ave. between Pine St. and Los Angeles city limits, to T. T. Crawford, Pomona, $45,775.

Calif., Los Angeles — Los Angeles Co., concrete paving, etc., portion of Woodruff Ave., to L. J. Turner, 205 East 1st St., Long Beach, $25,576; also Spencer and Carlyle Sts., etc., to H. P. Constr. Co., 5553 Western Ave., $29,820.

Calif., Monterey — Curbing, guttering, walks, asphaltic concrete paving, etc. 161,-400 sq.ft. Park and Ocean Aves., to Clark & Henery Constr. Co., Chancery Bldg., San Francisco, $59,975.

Calif., Pomona — Guttering and 5 in. oil macadam paving 268,000 sq.ft., etc. Orange Grove Ave., to Fleming Constr. Co., 105 North Park Ave., approximately $40,000.

Calif., Santa Rosa—Supervs. Sonoma Co., concrete paving, etc. 1½ mi. Petaluma-Valley Ford Highway, to Proctor & Cleghorn, Rosenberg Bldg., Santa Rosa, $32,308.

Calif., Woodland — Supervs. Yolo Co., improving Blacks to McClintocks Corner, Knights Landing Twp., 3,546 cu.yd. concrete paving, 851 cu.yd. gravel cushion, etc., to N. M. Ball, Masonic Temple Bldg., Porterville, $46,149.

Ontario—Dept. Pub. Highways, 110 University Ave., Toronto, concrete paving 7.26 mi. road from Colborne to Brighton, Contr. 1274, to Johnson Bros. Co. Ltd., 43 Market St., Brantford, $220,000; and road north of Guelph, northerly for 5.2 mi., Contr. 1277, to McArthur Eng. Co., Guelph, $150,000; macadam paving road east of Lansdowne 4 mi., Contr. 1279, to A. H. Parker, Cornwall, $60,000; concrete widening Jantzens Creek Bridge, Contr. 1288, to Ball Bros., 35 King St. E., Kitchener, $10,000. Grand total $440,000.

Alberta — Provincial Government, Dept. Pub. Wks., Edmonton, roadwork in Ellis, Clie and Lacombe, to G. B. Wood, Cartage Bldg., 409 Lougheed Bldg., Calgary. Engr. est. $65,463.

Alta., Edmonton—Will lay 6 mi. sidewalks on various streets, by day labor, under supervision A. W. Haddow, city engr., City Hall. $37,500.

Buildings—Commercial

Proposed Work

Vt., Barre—ARMORY—State of Vermont, H. T. Johnson, Montpelier, soon takes bids 3 story, 76 x 124 ft., rein.-con. and stone armory, here. $150,000. F. L. Austin, 240 College St., Burlington, archt. Noted Oct. 29.

Mass., Arlington (br. Boston) — STORE and OFFICE — W. A. Miller & Co., 55 Kilby St., Boston, plans 3 story and basement, brick, Massachusetts Ave., Arlington Center. $150,000. Engineer and architect not selected.

Mass., Boston—APARTMENT—Beacon & Hereford Realty Co., T. J. Kennedy, treas., 8 Trent St., Arlington, having plans prepared by G. N. Jacobs, 4 Park St., Boston, 10 story and basement, 35 x 90 ft., brick, stone and steel, concrete pile foundation, Back Bay Sect. $500,000.

Mass., Boston—MUNICIPAL—City, Dept. Pub. Buildings, J. P. Englert, supt., plans new municipal building. $500,000 appropriated. Engineer and architect not selected.

Mass., Boston — OFFICE — South Bay Realty Corp., 350 Madison Ave., New York City, plans 11 story and basement, brick and stone, Clarendon and Berkley Sts. $1,-000,000. Engineer and architect not selected.

Mass., Brockton—BANK—Brockton Natl. Bank, C. R. Fillebrown, pres., 90 Main St., having plans prepared by T. M. James, 3 Park St., Boston, 2 story and basement, brick and stone addition, Main and Church Sts. $150,000.

Mass., Cambridge (Boston P. O.)—HOSPITAL—Holy Ghost Hospital, Cambridge St., having plans prepared by W. H. McGinty, 241 Adams St., Dorchester, 5 story and basement, 45 x 155 ft., brick and steel addition. $500,000.

Mass., Cambridge (Boston P. O.)—HOTEL and STORE—C. Ernest, 1134 Massachusetts Ave., plans 10 story and basement hotel and store building, 18-28 Boylston St. $500,000. Engineer and architect not selected.

Mass., Dedham — THEATRE — Dedham Community Theatre Corp., c/o H. R. Duffie, archt., 333 Belgrade Ave., Rosindale, having plans prepared 2 story and basement, brick, steel and stone, High St. $200,000.

Mass., Lynn — BANK — Commonwealth Savings Bank, 345 Union St., plans 1 or 2 story and basement, brick and stone bank. $150,000 or more. Engineer and architect not selected.

Mass., Pittsfield — EXCHANGE — New England Telephone & Telegraph Co., 50 Oliver St., Boston, plans exchange, here. To exceed $150,000. A. Duffy, c/o owner, engr. Architect not selected.

Mass., Woburn — HOSPITAL — Choate Memorial Hospital, A. W. Bay, chm. trustees, having plans prepared by Stevens & Lee, 45 Newbury St., Boston, maternity hospital, brick and stone. To exceed $150,000.

R. I., Providence — BANK — Old Colony Bank, 602 Industrial Trust Bldg., having plans prepared by T. M. James, 3 Park St., Boston, Mass., brick, steel and stone, Weybosset St. To exceed $150,000.

Conn., Hartford—APARTMENT—J. A. Dolgin, 198 Vine St., had plans prepared by Berenson & Moses, 30 Allyn St., 3 story and basement, 84 x 120 ft., brick and steel, Albany Ave. and Woodland St. $150,000.

Conn., New Haven — OFFICE and APARTMENT — M. Konry, 1430 Dixwell Ave., plans 6 story, Grove and Church Sts. $600,000.

N. Y., Flushing—THEATRE—T. M. Lay, c/o Ewing & Allen, engrs. and archts., 101 Park Ave., New York City, having plans prepared brick, steel and stone, plain foundation, Maple St., here. $250,000.

N. Y., Flushing — THEATRE — B. F. Keith, Inc., 1564 Bway., New York City, having plans prepared by T. W. Lamb, engr. and archt., 644 8th Ave., New York City, 6 story, brick, steel and stone, plain foundation, Northern Blvd. $850,000.

N. Y., New York — CLINIC — New York Osteopathic Clinic, Inc., 35 East 22nd St., J. B. McKee, pres., having plans prepared by H. O. Champan, engr. and archt., 171 Madison Ave., brick, steel and stone, plain

Buildings—Commercial (Continued)

foundation, East 20th St. $200,000. Noted Jan. 7.

N. Y., New York—EXCHANGE—New York Telephone Co., 15 Dey St., having plans prepared by McKenzie, Voorhies & Gmelin, engrs. and archts., 342 Madison Ave., rein.-con., brick and steel, plain foundation, 175th St. and Grand Concourse. $1,250,000.

N. Y., New York—HOTEL—A. Kay, c/o F. P. Platt & Bro., archt., 221 West 57th St., had plans prepared brick, steel and stone, plain foundation, 6th Ave. and 46th St. $600,000. E. E. Seelye, 101 Park Ave., engr. Noted Jan. 28.

N. Y., New York — OFFICE — Lower Broadway Properties, c/o H. C. Severance, archt., 36 West 44th St., soon takes bids 35 story, brick, steel and stone, plain foundation, Bway. and New Sts., $2,500,000. D. M. Oltarsh, 36 West 44th St., engr.

N. Y., New York — WAREHOUSE — Lincoln Storage Warehouse, 60 East 42nd St., soon takes bids 12 story, rein.-con., brick and steel, plain foundation, 3rd Ave. and 69th St. $1,000,000. G. E. Kingsley, 145 West 41st St., archt.

N. Y., Rochester—OFFICE—F. J. Reidpath, archt., Mutual Life Bldg., Buffalo, preparing plans and soon takes bids 6-10 story and basement, rein.-con. and steel, plain foundation, Broad St., here; for Broad Buildings Corp. $500,000.

N. Y., Utica—EXCHANGE—New York Telephone Co., 15 Dey St., New York City, soon takes bids 3 story, brick, steel and stone, plain foundation, Cornelius and Genessee Sts., here. $150,000. McKenzie, Voorhees & Gmelin, 342 Madison Ave., New York City, engrs. and archts.

N. J., Lakewood — HOTEL — Cohen & Jacobs, c/o Rosedale Hotel, plan hotel, 10th St. and Madison Ave. $165,000. Engineer and architect not selected.

N. J., Trenton — FIRE HEADQUARTERS, etc.—City soon takes bids 3 story, fire headquarters and machine shop, Perry St. $385,000. J. O. Hunt, 219 East Hanover St., archt.

Pa., Elizabethtown—CHILDRENS HOSPITAL — State of Pennsylvania, c/o C. Minor, Capitol, Harrisburg, having plans prepared by Thomas, Martin & Kirkpatrick, 220 South 16th St., for childrens hospital, here.

Pa., McKees Rocks—BANK—First Natl. Bank having plans prepared by Simons, Brittain & English, Magee Bldg., Pittsburgh, 2 story and basement, 40 x 100 ft., brick and stone bank. $150,000.

Pa., Phila. — APARTMENT — D. Sorkin, c/o J. S. Fuller, archt., 5438 Locust St., having plans prepared 4 story and basement, 41 x 128 ft., brick and steel, plain foundation, 48th and Chestnut Sts. $150,000.

Pa., Phila.—EXHIBITION—J. Molitor, archt., 1313 Walnut St., soon lets contract Palace of Education, 1 story, 208 x 524 ft., rein.-con., stucco and steel, wood pile foundation, Broad and Pattison Sts., for Sesquicentennial Exposition, W. F. Kendrick, pres., 5th and Chestnut Sts.

Pa., Phila. — INSURANCE — Providence Life Insurance Co. having plans prepared by Cram & Ferguson, 248 Boylston St., Boston, Mass., 1st class insurance building, 46th and Market Sts. To exceed $150,000.

Pa., Phila.—OFFICE—T. Pressee Co., 1712 Chestnut St., having plans prepared by Davis, Dunlap & Barney, 1805 Walnut St., 8 story and basement, 60 x 96 ft. annex, 1723-33 Sansom St., and 54 x 60 ft. annex, 1705-11 Sansom St., both rein.-con., brick and steel, plain foundations.

Pa., Phila.—STORE — Ritter & Shay, archts., Packard Bldg., soon lets contract rein.-con., brick and steel, plain foundation, 929 Market St., for H. C. Kahn, Inc., 11th and Filbert Sts. Noted Dec. 17.

Pa., Pittsburgh—HOTEL—Kelkearys Hotel, 135 9th St., having plans prepared by E. B. Lee, Chamber of Commerce Bldg., 6 story and basement, brick and steel, 9th St. $150,000.

Pa., Pittsburgh—WAREHOUSE—Donohoes, Inc., 242 5th Ave., having plans prepared probably 5 story, 125 x 490 ft., brick and steel, Beaver and Page Sts. $300,000. Private plans.

D. C., Wash.—GARAGE—Capitol Garage Co., 1416 H St. N. W., had plans prepared by A. B. Heaton, 1211 Connecticut Ave. N. W., 10 story, 156 x 200 ft., concrete garage. $1,000,000. Noted Dec. 31.

D. C., Wash.—CONVENTION HALL and ARENA — Capitol Square Garden having plans prepared by J. H. DeSibour, Investment Bldg., altering 3 story, brick and concrete, 2nd and B Sts. N. W. $1,500,000.

N. C., Greensboro—APARTMENT—C. C. Pierce, plans 3 story and basement, North Elm St. $150,000.

N. C., Greensboro — GARAGE, etc. — Richardson Realty Corp. plans 2 story and basement, 125 x 262 ft., concrete and brick garage and car storage building, Bellemeade St. $200,000.

N. C., Raleigh—HOTEL—State Hotel Co. plans 8 story and basement, brick, terra cotta, steel and stone, Dawson St. $500,000. W. Smith, Citizens Bank Bldg., interested.

Ga., Atlanta — CITY HALL — Voted $1,000,000 bonds, new city hall. W. Sims, mayor. Noted Jan. 21.

Fla., Miami — GARAGE and HOTEL — Terminal Hotel Co. having plans prepared by F. J. DeLongchamps, Gazette Bldg., Reno, Nev., 12 story, fireproof garage and hotel. To exceed $1,000,000.

Miss., Biloxi—APARTMENT HOTEL—A. Braun & K. Dorris, plan 7 story, rein.-con., on 150 x 450 site, East Beach Blvd. between Holly and Kuhn Sts. $1,000,000. Engineer and architect not selected.

Tenn., Paris—BANK—Marr & Holman, archts., Stahlman Bldg., Nashville, soon let contract 4 story and basement, 50 x 150 ft., rein.-con. and brick, plain foundation, Main St., here, for 1st Natl. Bank. $150,000.

O., Akron—GARAGE—Bd. Control soon takes bids 1 story and basement, 156 x 200 ft., Johnson and Spicer Sts. $150,000.

O., Canton—OFFICE—Adler & Lauremon, Inc., Brant Bldg., plans 8 story, 50 x 150 ft., Cleveland and 2nd Sts. S. W. $500,000

O., Cleveland — COMMERCIAL and APARTMENT—Stotter-DeGroot-Haber Co., Leader-News Bldg., had plans prepared by Braverman & Havermaet, Ulmer Bldg., 3 story and basement, brick, Carnegie Ave. and East 86th St. $150,000.

O., Dayton—Y. M. C. A., A. C. Dixon, genl. secy., 3rd and Ludlow Sts., plans 7 story, brick and concrete addition, also 3 story, concrete and brick building for colored Y. M. C. A., 5th St. $750,000, funds being raised for same.

O., East Cleveland (br. Cleveland)—APARTMENT—Davis & Olkes, 3602 East 142nd St., Cleveland, had plans prepared by M. Altschuld, 5116 Woodland Ave., Cleveland, 3 story and basement, 40 x 120 ft., brick, 1244 Hayden Ave. $150,000.

Ind., Anderson — LODGE — Eerie of Eagles having plans prepared by E. R. Watkins, 441 Union Bldg., 2 story, 72 x 144 ft., rein.-con., plain foundation, South Meridian St. $150,000.

Ill., Chicago—APARTMENT and STORE—W. L. Wallen, Jr., 6712 North Clark St., had plans prepared by R. F. France & Co., 155 North Clark St., and takes bids about Apr. 5, 8 story and basement, 150 x 225 ft., rein.-con. and brick, 5200 Sheridan Rd. $2,500,000.

Ill., Chicago—BANK—H. L. Newhouse, archt., 4623 Drexel Ave., made plans and takes bids about Apr. 3, 3 story and basement, 50 x 100 ft., brick and stone, Northwest 79th St. and Emerald Ave., for Auburn Park Trust & Savings Bank, 7855 South Halstead St. $400,000.

Ill., Chicago—OFFICE—Building Constr. Employers Assn., Chamber Commerce Bldg., having preliminary sketches made 21 or 23 story and basement, 100 x 150 ft., La Salle St. and Wacker Dr. $4,000,000. Engineer and architect not selected.

Ill., Rock Island—CITY HALL—Cervin, Horn & Stuhr, archts., Safety Bldg., made preliminary sketches new city hall, for City. Election Apr. 20, to vote on bonds for same.

Wis., Shorewood (Milwaukee P. O.) — THEATRE and BUSINESS — H. D. Werwath, archt., 1266 Oakland Ave., takes bids about Apr. 12, 2 story and basement, 120 x 128 ft., rein.-con. and brick, plain foundation, Oakland Ave., for O. L. Gellerup, 430 Thomas St. $200,000.

Ia., Iowa City — ATHLETIC FIELD HOUSE — Proudfoot, Rawson & Souers, archts., Hubbel Bldg., Des Moines, soon lets contract 3 story and basement, 185 x 460 ft., brick and steel, plain foundation, for State University of Iowa. $400,000.

Minn., Minneapolis — GARAGE and OFFICE—Twin City Motor Bus Co., 1 11th St. S., H. Lowry, pr s., had plans prepared 2 story and basement, 135 x 300 ft., rein.-con., brick and stone, Chestnut St. and 1st Ave. $250,000. Private plans.

Kan., Kansas City — Y. M. C. A., 431 North 15th St., having preliminary plans prepared by D. P. Peterson, 818 Minnesoto Ave., 3 story and basement, 120 x 128 ft., rein.-con., brick and stone hospital. $200,000.

Mo., St. Louis—APARTMENT HOTEL—Local Syndicate, c/o P. J. Bradshaw, archt., International Life Bldg., purchased site and plans 20 story and basement, 477 x 235 ft., rein.-con., brick, steel, stone and terra cotta apartment hotel, incl. swimming pool, Lindell Stand Spring Ave. $5,000,000.

Mo., St. Louis — APARTMENT — M. Anderson, c/o O. J. Krieg, archt., Arcade Bldg., having plans prepared 7 story and basement, 53 x 63 ft., rein.-con., brick and terra cotta, Laurel Ave. south of Delmar Blvd.

Mo., St. Louis—AUDITORIUM—Bd. Pub. Serv., 208 City Hall, soon takes bids 1 and 2 story and basement, 55 x 190 ft., brick and concrete auditorium, dining hall and solari at sanitarium, Arsenal St. $238,000. L. R. Bowen & H. Updike, 301 City Hall, engrs. L. R. Bowen & A. Osburg, 301 City Hall, archts. Noted Mar. 25.

Tex., Brownsville — AUDITORIUM and CHAMBER of COMMERCE — Plans election soon $160,000 bonds, auditorium and chamber of commerce buliding. Address W. E. McDavitt, chn. building com.

Tex., Childress — HOSPITAL — Childress Co., c/o J. H. Callaway, judge, having sketches made by Voelcker & Dixon, 4 Kuhn Bldg., Wichita Falls, new hospital. $175,000.

Tex., Nacogdoches—HOTEL—Chamber of Commerce, c/o O. Beseler, secy., and J. H. Buchanan, plans 3 or 4 story, rein.-con., brick and stone addition. $200,000. Engineer and architect selected soon.

Tex., San Antonio—HOTEL and HOTEL APARTMENT — H. C. Thorman & associates, 125 East Travis St., having plans prepared by J. N. McCammon, engr. and archt., Dallas, Tourist Hotel, 12 story and basement, rein.-con., brick and tile $1,000,000; also two 12 story hotel apartments, $500,000 each, Devine and Robinson Rds. Noted Apr. 1.

Tex., San Antonio—SALES—A. B. Frank Co., 210 West Commerce St., having plans prepared by A. B. and R. M. Ayres, 626 Bedell Bldg., 5 story and basement, rein.-con. and brick, 210 Blk. West Commerce St. $200,000. W. E. Simpson, Natl. Bank of Commerce Bldg., engr.

Tex., San Antonio—WAREHOUSE, etc.—Smith Bros. Development Co., Crockett, having plans prepared by A. B. and R. M. Ayres, 626 Bedell Bldg., 7 story and basement, 114 x 190 ft., rein.-con., brick and stone, plain foundation, Navarro and Villita Sts., Bowens Island. $600,000. W. E. Simpson, c/o Natl. Bank Commerce Bldg., engr.

Miss., Biloxi — APARTMENT — Biloxi Real Estate Bd., W. E. Beasley, chn., plans apartment building. $250,000.

Tenn., Memphis — HOSPITAL—Tri-State Baptist Hospital, having plans prepared by Pfeil & Awsumb, Fidelity Bldg., and takes bids about Apr. 25, 8 story, 42 x 150 ft., rein.-con. and brick, Madison Ave. $300,000.

Ind., Anderson — APARTMENT and GARAGE — E. G. Spink Realty Co., 203 Medical Arts Bldg., Indianapolis, plans 4 story, 100 x 140 ft., brick and rein.-con. apartment, plain foundation, Central and 11th Sts., $250,000; and 3 story, 50 x 90 ft., rein.-con. garage, plain foundation, Central and 10th Sts., $160,000, here.

Ind., Bluffton—CITY HALL—City having plans prepared by E. I. Brown, Bluffton, 2 story and basement, 105 x 129 ft., brick and steel city hall and community building. $150,000.

Ind., Hammond—HOTEL—Anderson & Christianson, having plans prepared by Wainwright & Vaughn, Hammond 3 story and basement, brick and steel hotel. $200,000.

Ind., Washington — THEATRE — M. Switow & Sons, had plans prepared by C. Epping, 625 South 3rd St., Louisville, Ky., 2 story and basement, 60 x 115 ft., brick and steel, 4th and Main Sts. $150,000.

Wis., Milwaukee—APARTMENT—G. E. Zimmermann, 3402 Grand Ave., having plans prepared by M. Tullgren & Sons Co., 9 Waverly Pl., 4 or 6 story, brick and concrete, plain foundation, Grand Ave. $200,000. Noted Mar. 25.

Ia., Council Bluffs — HOTEL — Greater Council Bluffs Assn., c/o City, had plans prepared by J. C. Jensen, 305 West Bway., A. Anderson, 2534 Avenue B, and G. Spooner, 1142 East Pierce St., 8 story and basement, 156 room, brick, South Main St. $425,000.

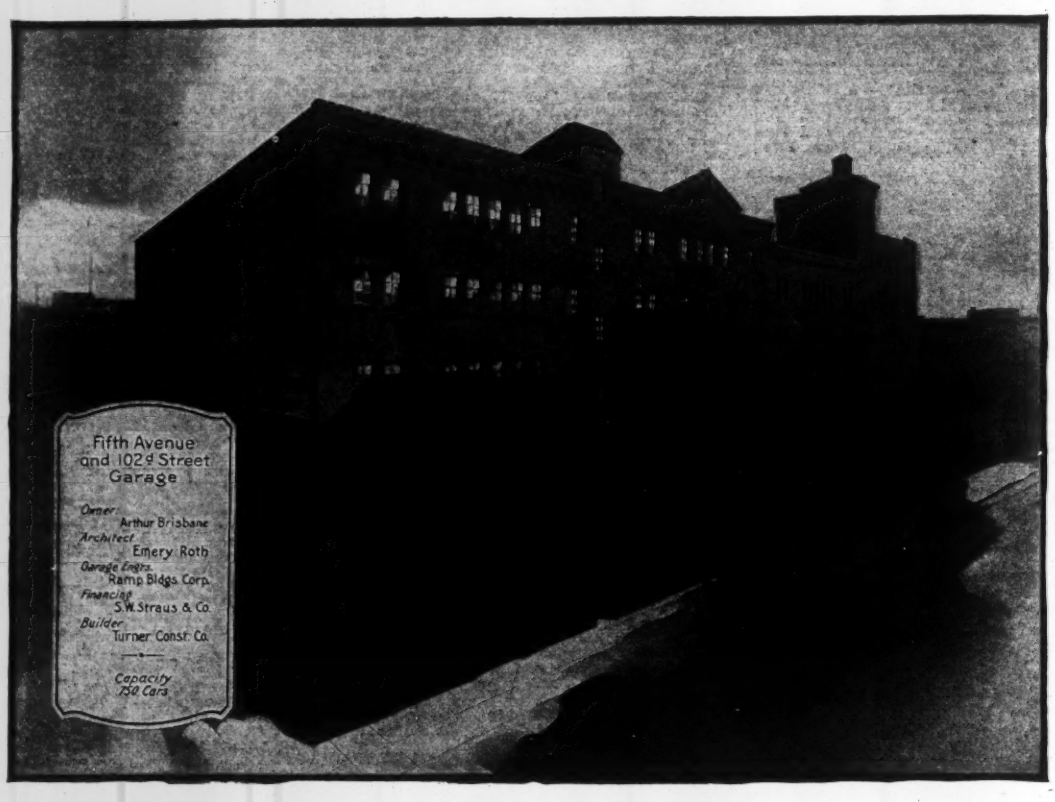
Kan., Pittsburg — HOTEL — Pittsburg Hotel Co. having plans prepared by W. T. Schmidt, 1634 West 10th St., Oklahoma City, rein.-con., brick and stone hotel. $300,000.

Kan., Topeka—Y. W. C. A., 7th and Van Buren Sts., having plans prepared by T. W. Williamson & Co., 312 Central Natl. Bank Bldg., 4 story and basement, 140 x 187 ft., rein.-con. and brick. $200,000.

Mo., Kansas City—WAREHOUSE—Great Atlantic & Pacific Tea Co., 818 Summer Ave., Newark, N. J., having plans prepared by Louck & Louck, 1004 Orear-Leslie Bldg., 3 story and basement, 122 x 200 ft., rein.-con. warehouse, 20th and Cherry Sts., here. Noted Mar. 4.

Mo., St. Louis — APARTMENT, THEATRE, etc.—J. Rubin et al, 808 Chestnut St., purchased site and plans 2 story and basement, 152 x 450 ft., rein.-con., brick and terra cotta, Cook and Taylor Sts. $200,000. Private plans.

AMERICA NEEDS MORE GARAGES IN HER CITIES



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Buildings—Commercial (Continued)

Mo., St. Louis—Y. M. C. A., Ry. Exch. Bldg., purchased site and plans 4 story and basement, 210 x 268 ft., brick, concrete and terra cotta building, Grand Blvd. and South Side. $250,000 or more.

Tex., Dallas—HOSPITAL—City Hospital Bd., c/o G. D. Thaxton, Wilson Bldg., having plans prepared rein.-con. addition, Maple Ave. near Oak Lawn St. $250,000. B. C. Hill, archt., 1111 Republic Bank Bldg., made sketches of same.

Okla., Guthrie — HOSPITAL — Methodist Episcopal Church of Oklahoma, c/o E. L. Gahl, archts., 401 Southwest Natl. Bank Bldg., Oklahoma City, having plans prepared 100 bed, rein.-con., brick and stone hospital, here. $250,000. Noted Feb. 5.

Okla., Stillwater—THEATRE and OFFICE—F. M. Tull, 901 West 17th St., Oklahoma City, had plans prepared 3 story and basement, 50 x 140 ft., rein.-con. and brick, plain foundation, 502 North Main St., here. $160,000. Engineer and architect not announced.

Wash., Seattle—THEATRE and OFFICE—Publix Theatres Corp., 485 5th Ave., New York City, N. Y., having sketches made by C. W. Rapp & G. L. Rapp, engrs. and archts., 1749 Howard St., Chicago, Ill., brick, steel and stone, here. $5,000,000.

Wash., Tacoma—APARTMENT—Hill & Mock, archts., Perkins Bldg., take bids about Apr. 22, 5 story, brick and terra cotta, 6th St. and Fawcett Ave., for C. W. Johnson, Johnson Paint Co. $250,000.

Calif., Alameda—BANK and OFFICE—Encinal Natl. Bank, c/o C. L. Tilden, Sr. (interested), 217 Front St., San Francisco, plans rein.-con. bank and office building, here. $150,000 or more.

Calif., Berkeley—STORE—P. T. Swedberg, 2060 University Ave., plans 3 story and basement, probably rein.-con., Allston Way. $150,000. Engineer and architect not selected.

Calif., Brawley—HOTEL—Sears & Patterson, c/o Noerenberg & Johnson, archts., Ry. Bldg., Los Angeles, having plans prepared, fireproof hotel. $150,000.

Calif., Burbank — PICTURE STUDIO — First Natl. Pictures, Inc., 383 Madison Ave., New York City, N. Y., had preliminary plans prepared by Austin Co. of California, 777 East Washington St., Los Angeles, motion picture studio, incl. approximately 45 buildings, here. To exceed $150,000.

Calif., Glendale—APARTMENT—A. R. Sedgley, archt., Kerckhoff Bldg., Los Angeles, preparing plans 3 story and basement, brick, Verdugo Rd. $150,000. Owner's name withheld.

Calif., Long Beach—CLUB and HOTEL—L. A. Smith, archt., Film Exch. Bldg., Los Angeles, soon takes bids 12 story, rein.-con., Ocean Blvd., here, for Consolidated Properties Co., c/o architects. Seaside Commerce Club, Long Beach, lessee.

Calif., Los Angeles — BATH HOUSE — Hollywood Baths Corp., having plans prepared by A. Monaco, 701 Pershing Sq. Bldg., 3 and 4 story, 90 x 138 ft., rein.-con. bathhouse, incl. two 30 x 50 ft. concrete swimming pools. $300,000.

Calif., Los Angeles—CLUB—Ebell Club of Los Angeles, W. Reed, pres., 1719 Figroa St., having plans prepared by Hunt & Burns, Laughlin Bldg., fireproof, Wilshire Blvd. To exceed $150,000.

Calif., Los Angeles—THEATRE, STORE and OFFICE—L. O. Calcoon, c/o L. A. Smith, archt., Film Exch. Bldg., having plans prepared 2 and 3 story, 120 x 140 ft., brick and rein.-con., South Figueroa St. $150,000.

Calif., Los Angeles—THEATRE, STORE and OFFICE — G. A. Lansburgh, archt., Consolidated Bldg., soon takes bids 6 story, rein.-con. and steel, 3,000 seating capacity, Wilcox Ave. and Hollywood Blvd., for Warner Bros., c/o architect. To exceed $1,000,000. Noted Jan. 7.

Calif., Modesto—HOSPITAL—Stanislaus Co. plans election $150,000 bonds, hospital.

Calif., Oakland—APARTMENT—C. W. McCall, archt., 1404 Franklin St., prepared plans 4 story, hollow tile and rein.-con., Webster St. $150,000. Owner's name withheld.

Calif., Pasadena — LODGE — Masonic Temple Assn., having plans prepared by Haskell & Bennett, Security Bldg., 2 story, fireproof, South Euclid Ave. $200,000 or more. Noted Mar. 4.

Calif., Sacramento—COMMERCIAL—F. C. Hill, Forum Bldg., plans fireproof, on block bounded by X, Y, 28th and 29th Sts. To exceed $150,000.

Calif., San Francisco—APARTMENT—M. Fassio, c/o C. O. Clausen, archts., Hearst Bldg., having plans prepared 5 story and basement, rein.-con., Fell St. To exceed $150,000.

Calif., San Francisco—APARTMENT—W. V. Lacey, 180 Jessie St., having preliminary plans prepared by C. O. Clausen, Hearst Bldg., 12 story and basement, rein.-con., Mason St. near Sutter St. To exceed $150,000.

Calif., San Francisco — APARTMENT — C. J. Keenan, c/o N. W. Sexton, archt., DeYoung Bldg., having plans prepared 6 story and basement, 50 x 176 ft., steel and concrete, California St. near Stockton St. $150,000.

Calif., San Francisco—APARTMENT—Wagner & Bruer, c/o Bakewell & Brown, archts., 251 Kearny St., had plans prepared 12 story and basement, steel and concrete, Gough and Bway. Sts. $600,000.

Calif., San Francisco—APARTMENT—D. Zelinsky, 165 Grove St., plans steel and rein.-con., Larkin and Francisco Sts. To exceed $150,000. Engineer and architects names withheld.

Calif., San Francisco—STORE and LOFT—W. and J. Sloane Co., 224 Sutter St., plans 10 to 17 story, fireproof, Sutter St. near Powell St. To exceed $750,000.

Calif., San Leandro—THEATRE—Beach-Krahn Amusement Co., c/o J. A. Marshall, archt., 5658 College Ave., Berkeley, having plans prepared rein.-con., Best Estate Tract. $200,000.

Calif., San Mateo — HOSPITAL — Mills Memorial Hospital, having plans prepared by L. R. Hobart, Crocker Bldg., San Francisco, fireproof annex, El Camino Real. To exceed $150,000.

Calif., Santa Barbara — HOTEL — Biltmore Hotel Interests, c/o B. G. McDougall, archt., 535 Sacramento St., San Francisco, having plans prepared fireproof, Leadbetter Point, here. $4,000,000. W. G. Clark, 318 West 9th St., Los Angeles, engr. Noted Nov. 5.

Calif., Santa Barbara — LODGE and CLUB — B. P. O. E. Santa Barbara Lodge, soon takes bids 3 story and basement, 100 x 100 ft., brick and steel lodge and clubhouse. $250,000. Parkinson & Parkinson Title Insurance Bldg., Los Angeles, archts. Noted Oct. 25.

Calif., Santa Rosa—HOSPITAL—Owner, c/o A. M. Thomson (interested) Sonoma, plans 3 wing type, fireproof, St. Helena Ave., here. $150,000.

Calif., Vacaville — THEATRE — A. W. Cornelius, archts., Merchants Natl. Bank Bldg., San Frnacisco, prepared plans rein.-con. theatre, here. $150,000. Owner's name withheld.

Ontario—DEPARTMENTAL—Dept. Pub. Wks., Parliament Bldgs., Ottawa, included $60,000 in government estimates for departmental buildings in Ottawa; $130,000 for public buildings in Gravenhurst, Kitchener, Napanee, Port Colborne, Stouffville, Wiarton; $25,000 warehouses for Dept. Agriculture, Lake Erie; and $115,000 general improvements and repairs, all concrete brick, stone and steel. R. C. Wright, Parliament Bldgs., Ottawa, ch. engr.

Ontario — PARLIAMENT, HOSPITAL etc—Provincial government, Parliament Bldg., Toronto, having plans prepared by F. R. Heakes, Parliament Bldg., Toronto, finishing east wing of Parliament buildings, Toronto, $500,000; extensions to Ontario Hospital, Brockville, $20,000; new building for Ontario Hospital, Woodstock, $100,000; new building for Provincial Reformatory, Guelph, $75,000; Boys Training School additions, Bowmanville, $100,000; mining recording office, Red Lake, $7,500; registry office, Fort Frances, $20,000; jail, Sudbury, $50,000; and jail North Bay, $50,000.

Man., Winnipeg — WAREHOUSE and SHOWROOM — International Harvester Co. of Canada, Ltd., Main and Sutherland Sts., takes bids about May 1, 5 story and basement, brick addition, Main and Southerland Sts. $175,000. Private plans. Noted Feb. 18.

Bids Desired

Mass., Boston—GARAGE—Savoy Realty Co., c/o M. Linenthal engr., 333 Washington St., taking bids 2½ story, 160,000 sq.ft. floor space, rein.-con., brick and steel, plain foundation, Washington and Perry Sts. $250,000 or more.

Mass., Boston—HOSPITAL—See "Contracts Awarded."

Mass., Brookline (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Cambridge (Boston P. O.)—HOSPITAL—Holy Ghost Hospital, taking bids 5 story and basement, 45 x 155 ft., brick, steel and rein.-con. addition, plain foundation, Cambridge St. $500,000. W. H. McGinty, 241 Adams St., Dorchester, archt.

Mass., Jamaica Plain (Boston P. O.) — HOME—Home for Italian Children, 1125 Centre St., taking bids 2 story and basement, 56 x 90 ft., brick, stucco and terra cotta, plain foundation. $150,000. W. W. Drummey, 80 Boylston St., Boston, archt.

R. I., Pawtucket — APARTMENT — See "Contracts Awarded."

N. Y., Lockport—Apr. 9, by Y. M. C. A., 19 East Ave., 196 x 200 ft., brick, steel and stone, plain foundation. $500,000. J. F. Jackson, 137 East 45th St., New York City, engr. and archt. Noted Jan. 28.

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., Rochester — FURNITURE STORAGE—O. W. Dryer, archt., 217 East Ave., taking bids 6 story and basement, rein.-con., St. Paul St., for J. A. Schantz Co., St. Paul St. and Central Ave. $500,000.

N. Y., Thiells—ATTENDANTS HOME—May 6, by Superintendent Purchase, Capitol, Albany, attendants home at Letchworth Village, here. S. W. Jones, Albany, state archt.; adv. E. N.-R. Apr. 8.

Pa., Allentown—GARAGE—W. E. Erdell, 601 North 6th St., taking bids 4 story and basement, 84 x 140 ft., brick and rein.-con., North 5th St. $150,000. Jacoby & Everett, Allentown, archts.

Pa., Allentown—GARAGE—Apr. 10, by Jacoby & Everett, archts., Commonwealth Bldg., Phila., 4 story and basement, 83 x 141 ft., rein.-con. and brick, plain foundation, 28-34 North 5th St., for Central Motoramp Garage Co. $175,000.

Pa., Phila.—APARTMENT—See "Contracts Awarded."

Pa., Somerset—STORE—See "Contracts Awarded."

Md., Baltimore—STORE—Apr. 12, by J. E. Sperry, archt., Calvert Bldg., 10 story and basement, 167 x 393 ft., rein.-con., brick and steel, sheet pile foundation, Franklin, Centre, Howard and Tyson Sts., for Hockschild, Kohn & Co., Lexington and Howard Sts. $2,000,000. Noted Feb. 12, 1925.

La., New Orleans—EXCHANGE—Marye, Alger & Alger, archts., Walton Bldg., Atlanta, Ga., taking bids rein.-con., brick and stone, Baronne St. between Poydras and Lafayette Sts., here, for Cumberland Telephone Co. $500,000. R. S. Soule, 429 Carondelet Bldg., associated architect. Noted Dec. 3.

O., Cleveland — COMMERCIAL and APARTMENT—E. J. Garson, c/o Stotter, De Groot & Haber, Leader-News Bldg., taking bids 3 story and basement, 72 x 118 ft., brick, Mayfield and Green Rds. $150,000. Braverman & Havermaet, Uimer Bldg., archts.

Ind., Bedford — BANK — Citizens Natl. Bank, taking bids 4 story, 42 x 105 ft., brick, stone and rein.-con. bank. $150,000. McGuire & Shook, Pythian Bldg., Indianapolis, archts. Noted Jan. 7.

Mich., Detroit — EXCHANGE — Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., taking bids 2 and 3 story and basement, 99 x 205 ft., rein.-con., brick and steel, plain foundation, Ferry Ave., for Michigan Bell Telephone Co., Cass Ave. $150,000.

Ill., Des Plaines—BANK—Apr. 12, by Wolf, Sexton, Harper & Trueax, archts., 7 West Madison St., Chicago, 2 story and basement, 56 x 123½ ft., brick and stone, for Des Plaines State Bank. $250,000.

Neb., Hastings—HOTEL and THEATRE—Apr. 14, by G. L. Fisher, archt., 1437 City Natl. Bank Bldg., Omaha, 3 story and basement, rein.-con., brick and terra cotta, here, for Hastings Theatre & Realty Corp., 804 North 33rd St., Omaha. $150,000. Noted Mar. 25.

Calif., Los Angeles—APARTMENT—A. Le Brun Co., archts., 5401 Hollywood Blvd., taking bids 4 story and basement, 60 x 140 ft., brick, Wilton Pl., for Niemann Investment Co., 5401 Hollywood Blvg.

Calif., Los Angeles — APARTMENT — L. A. Rose, 1274 South Western Ave., taking bids 4 story and basement, 117 x 123 ft., rein.-con., 1057 South Western Ave. $175,000. L. Callahan & Sons, 718 Edwards & Wildy Bldg., archts.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles—STORE and LOFT—Morgan, Walls & Clements, archts., Van Nuys Bldg., taking bids 2 story, 150 x 200 ft., rein.-con., 7th and Washington Sts., for Ralph Grocery Co. $150,000. Noted Feb. 11.

Calif., San Francisco—APARTMENTS—See "Contracts Awarded."

Bids Received

N. J., Trenton — TEMPLE — Masonic Temple Assn., Trenton, brick and steel, West Front and Willow Sts., from J. H. Morris Co., 211 North Montgomery St., $610,111. Noted Mar. 25.

Pa., Phila. — EXHIBITION — Sesquicentennial Exposition 5th and Chestnut Sts., W. F. Kendrick, pres., for Palace of Fine Arts, 1 story, 220 x 500 ft., concrete, stucco

Buildings—Commercial (Continued)

and steel, wood pile foundation, Broad St. near Navy Yard, from Turner Constr. Co., 1713 Sansom St., $240,000.

Miss., Greenville — HOSPITAL — Kings Daughters Hospital, F. Schelban, chn. building com., 4 story, rein.-con., hollow tile, stucco and terra cotta, from Wessel Constr. Co., Memphis, Tenn., $159,000. Noted Mar. 18.

Calif., Alhambra — HOTEL, APARTMENT and STORE — Granada Hotel Co., 5 story and basement, 90 x 171 ft., rein.-con., South Garfield Ave. and 1st St., from R. E. Campbell, 1003 Cove Way, Beverly Hills, $281,500.

Calif., San Francisco—ARMORY—State, general contract new structural steel roof and minor additions, here, from A. L. Vezina, Nevada Bank Bldg., San Francisco, $69,182; structural steel, from Judson Mfg. Co., 604 Mission St., $70,685.

Contracts Awarded

Mass., Boston—HOSPITAL—New England Deaconess Assn., 10 Deaconess Rd., will build 6 story and basement, 80 x 160 ft., brick, granite and stone, plain foundation, Deaconess and Pilgrim Rds., by day labor. $600,000. E. W. Dearing, 19 Deaconess Rd., archt. Noted Nov. 26.

Mass., Brookline (br. Boston)—APARTMENT — J. Birson & W. Berish, 18 Hiawatha Rd., Mattapan, will build 3 story and basement, brick, 1746 Commonwealth Ave., here. $150,000. Work will be done by separate contracts. S. S. Eisenberg, 46 Cornhill St., Boston, archt.

Mass., Brookline (br. Boston) — FIRE HEADQUARTERS—Town, C. F. Rowley, chn. Selectmen, 70 State St., Boston, 1 story and basement, brick and stone, here, to Crane Constr. Co., 80 Boylston St., Boston. Archts. est. to exceed $150,000. Noted Jan. 28.

Mass., Lynn—STORE and OFFICE—Haven & Gordon, 10 City Hall Sq., 2 story and basement, 100 x 132 ft., brick and stone, plain foundation, to E. M. Baxter, 92 Clark St. Archts. est. $150,000. Noted Dec. 24.

Mass., Melrose (Boston P. O.)—BANK—Melrose Savings Bank, 497 Main St., 1 and 2 story and basement, 60 x 70 ft., brick, stone and steel, plain foundation, Main and West Foster Sts., to C. S. Patten, 137 West Emerson St. Archts. est. $150,000. Noted Oct. 15.

R. I., Pawtucket — APARTMENT — Owner, c/o L. E. Danforth, 76 Dorrance St., Providence, will build 3 story, brick and steel, by day labor. $150,000. Private plans.

Conn., Greenwich — APARTMENT — Greenwich Lodge Corp., 6 story and basement, brick and steel, to Mahlstedt Steen, Inc., 32 North Ave., New Rochelle, N. Y. Archts. est. to exceed $150,000.

Conn., Hamden (br. New Haven) — THEATRE, STORE and OFFICE—Fishman Bros., 826 Dixwell Ave., New Haven, 2 story, 76 x 130 ft., brick and steel, Dixwell Ave., to J. Alpert, 136 Sherman Ave., New Haven. Archts. est. $150,000. Noted Jan. 21.

Conn., New Britain—CLUB—Y. M. T. A. & B. Society, G. Kane, pres., W. J. Kerin, chn. building com., 3 story, 90 x 150 ft., Main St., to Hayes Constr. Co., 9 Court St., $160,000.

Conn., New Haven—BUSINESS—H. M. Bullard Furniture Co., 91 Orange St., 5 story, 100 x 185 ft., brick and steel, plain foundation, Orange St., to C. W. Murdock, Inc., 505 Grand St. Archts. est. $400,000. Noted Apr. 1.

Conn., South Norwalk — THEATRE — H. Goodwin, 16 Spring St., Norwalk, 1 story and basement, brick steel and terra cotta, Washington St., to H. Frabrizio, 7 North Ave. Archts. est. $200,000. Noted Jan. 21.

N. Y., Brooklyn—BANK—Flatbush Savings Bank, 910 Flatbush Ave., brick, steel and stone, plain foundation, Flatbush Ave., to W. Kennedy Constr. Co., 215 Montague St. Archts. est. $200,000. Noted Sept. 17.

N. Y., New York — APARTMENT — L. Katz Constr. Co., c/o P. Lubroth, engr. and archt., 303 East Fordham Rd., will build brick, steel and stone, plain foundation, College Pl., by day labor. $300,000.

N. Y., New York—APARTMENT—Simmor Realty Co., c/o C. Kreymborg, engr. and archt., 2534 Marion Ave., will build brick, steel and stone, plain foundation, 189th St. and Washington Ave., by day labor. $175,000.

N. Y., New York—APARTMENT—Clarke Pl. Constr. Co., c/o C. Kreymborg, engr. and archt., will build 6 story, brick, steel and stone, plain foundation Megraw St., by day labor. $200,000.

N. Y., New York—APARTMENT—Six Hundred Eighty-Seven Lexington Ave., Inc., c/o Schwartz & Gross, engrs. and archts., 347 5th Ave., will build brick, steel and stone, plain foundation, Lexington Ave., by day labor. $350,000.

N. Y., New York — APARTMENT — Bansam Realty Co., c/o Moore & Landseidel, engrs. and archts., 148th St. and 3rd Ave., will build brick, steel and stone, plain foundation, Dykman St., by day labor. $175,000.

N. Y., New York—OFFICE—Consolidated Gas Co., 130 East 15 St., 18 story, brick, steel and stone, plain foundation, Irving Pl. and 14th St., to Kenn-Well Contg. Co., 45 East 17th St., New York City. Archts. est. approximately $1,500,000.

N. Y., New York—OFFICE—L. Gold, 270 Madison Ave., will build brick, steel and stone, plain foundation, Madison Ave. $250,000. Work will be done by separate contracts. H. C. Severance, 36 West 44th St., archt. D. M. Oltarsh, 36 West 44th St., engr.

N. Y., New York — OFFICE — Jatison Constr. Co., c/o Schwartz & Gross, engrs. and archts., 347 5th Ave., will build brick, steel and stone, plain foundation, 48 West 37th St., by day labor.

N. J., Elizabeth — MASONIC HOME — Masonic Temple Assn., general contract 3 story, 60 x 122 ft., to Sobrary-Whitcomb Co., 105 West 40th St., New York City, $404,450; heating, to J. H. Nelles, 835 Springfield Ave., Irvington, $52,740.

Pa., Altoona—HOSPITAL—W. F. Beck, secy. Mercy Hospital Assn., 8th Ave. and 26th St., 4 story and basement, 48 x 110 ft., rein.-con. and steel addition, general contract, to Cartensen & McLain, Swank Bldg., Johnstown, $91,700. Noted Feb. 11.

Pa., Homestead—BANK—Monongahela Trust Co., 8th and Ann Sts., general contract 1 and 2 story and basement bank, to Foreman & Putman, Marietta, O. Archts. est. $350,000. Noted Jan. 21.

Pa., Phila. — APARTMENT—Wellington Building Co., c/o P. M. Julian, archt., 823 15th St. N. W., Wash., D. C., 15 story and basement, 35 x 125 ft., rein.-con., brick and steel, plain foundation, 20th and Walnut Sts., to R. P. Whitty, Union Trust Bldg., Wash., D. C. Archts. est. $500,000.

Pa., Phila. — APARTMENT — Linclive Realty Corp., c/o Sugarman, Hess & Berger, archts., 346 Madison Ave., New York City, N. Y., will build 4 story and basement, 106 x 300 ft., rein.-con., brick and steel, plain foundation, Cliveden St. and Lincoln Dr., by day labor. $1,000,000.

Pa., Phila.—APARTMENT—Forty-Third and Locust St. Building Co., c/o P. M. Julian, archt., 823 15th St. N. W., Wash., D. C., 9 story and basement, 47 x 100 ft., 50 x 190 ft., and 47 x 100 ft., rein.-con., brick and steel, plain foundation, 43rd and Locust Sts., to R. P. Whitty Co., Union Trust Bldg., Wash., D. C. Archts. est. $1,700,000.

Pa., Phila. — EXHIBITION — Sesquicentennial Exposition, 5th and Chestnut Sts., W. F. Kendrick, pres., for Palace of Fine Arts, 1 story, 220 x 500 ft., concrete, stucco and steel, wood pile foundation, Broad St. near Navy Yard, to Turner Constr. Co., 1713 Sansom St. $240,000.

Pa., Somerset — STORE — Schell Hardware Co. will build 3 story and basement, 57 x 172 ft., stone, cement and brick, Main St., by day labor. $200,000.

Pa., Wilkes-Barre — HOSPITAL — Mercy Hospital, 2nd Natl. Bldg., 4 story and basement, 33 x 440 ft., and 44 x 48 ft., brick, stone and steel, Hanover St., to H. Mailander, 167 Barney St. Archts. est. $300,000.

Pa., Williamsport—LODGE—B. P. O. E. 173, H. R. Davis, chn., general contract 3 story and basement, 60 x 192 ft., brick and steel, 4th St., to J. Gehron & Co., Williamsport, $200,994; heating, to E. Keeler Co., Williamsport, $29,580.

Md., Catonsville (br. Baltimore)—HOSPITAL—H. P. Hopkins & A. Burton, archts., 347 North Charles St., Baltimore, 4 story and basement, 50 x 115 ft., brick and steel, plain foundation, for Spring Grove State Hospital, here, to J. Hiltz & Son, 345 St. Paul St., Baltimore. Archts. est. $150,000. Noted Mar. 25.

Fla., Miami — OFFICE — Dade Co. Security Co., 1107 Ave. C, concrete and steel on 50 x 146 ft. site Northeast 1st Ave. and 2nd St., to F. T. Ley & Co., Vail Arcade. Archts. est. $800,000.

Miss., Amory—HOTEL—Amory Hotel & Realty Co., 4 story, 100 x 150 ft. hotel, Main St., to Korsmo Constr. Co., Memphis, Tenn. Archts. est. $150,000.

Miss., Greenville — HOSPITAL — Kings Daughters, 2 story, rein.-con. and brick, plain foundation, to Kaucher & Hodges Co., Exch. Bldg., Memphis, Tenn. Archts. est. $253,444.

La., New Orleans—HOTEL—Syndicate, c/o E. L. Aschaffenberg, for Hotel Construction Co., chartrain, 12 story, St. Charles St., to J. V. & R. T. Burkes, Carondelet Bldg. Archts. est. $1,000,000. Noted Apr. 1.

O., Zanesville — BANK and OFFICE — First Trust & Saving Bank, W. W. Lattaman, pres., remodeling bank and office, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland. Archts. est. $150,000.

Ind., Indianapolis — WAREHOUSE — Vonnegut Hardware Co., general contract 6 story and basement, 101 x 195 ft., brick, steel and rein.-con., to Service Constr. Co., Castle Hall Bldg., $207,852. Noted Mar. 4.

Ind., Michigan City — BANK and OFFICE—A. A. Boyd, pres. Merchants Natl. Bank, general contract 2 story and basement, 26 x 141 ft., brick, steel and rein.-con., 6th and Franklin Sts., to Town & Black Constr. Co., Michigan City. Archts. est. $150,000. Noted Jan. 14.

Ind., Seymour — BANK — First Natl. Bank, general contract 2 story and basement, 40 x 132 ft., brick and steel, to H. Vahle, New Palestine. Archts. est. $150,000. Noted Mar. 4.

Ill., Chicago — APARTMENT HOTEL — Guske & Foster, archts., 750 North Michigan Ave., masonry, concrete and carpentry contract 18 story, 100 x 107 ft., rein.-con., brick and stone, 244 Pearson St., to A. Lindstrom, 77 West Washington St., for P. M. Gordon, 3167 Pine Grove Ave. Archts. est. $2,220,000. Noted Mar. 11.

Ill., Chicago — FURNITURE MART — Amer. Furniture Mart, 666 Lake Shore Dr., 21 story, 84 x 218 ft., brick, stone, steel and terra cotta addition, 400-406 East Erie St., to Wells Bros. Constr. Co., 53 West Jackson Blvd. Archts. est. $2,500,000. Noted Jan. 1, 1925.

Ill., Chicago—HOSPITAL—F. D. Chase, Inc., archts., 720 North Michigan Ave., masonry, concrete and carpentry contract 6 story, brick and steel, 33rd St. and Groveland Park, to M. B. Tilley, 844 Rush St., for Chicago Memorial Hospital, J. E. Wilder, pres., 1038 Crosby St. Archts. est. $650,000. Noted Dec. 24.

Ia., Bettendorf—SANITARIUM—Masonic Grand Lodge of Iowa, A. F. & A. M., F. Moses, secy., general contract 3 story and basement, 38 x 165 ft. and 44 x 101 ft., rein.-con. and brick wings, plain foundations, to J. Soller & Son, 618 Brady St., Davenport, $106,302; heating and ventilating, to Wheatland & Co., Cedar Rapids, $28,500. Noted Mar. 18.

Neb., Omaha—HOSPITAL—J. Latenser & Sons, archts., Peters Trust Bldg., general contract 3 story and basement, brick, addition, 42nd St. and Dewey Ave., to R. Butke, 527 Paxton Blk., $194,850; plumbing and heating, to W. M. Scott, 2847 Farnam St., $31,495. Noted Mar. 18.

Neb., Omaha — STORE — G. B. Prinz, archt., 1037 Omaha Natl. Bank Bldg., 6 story and basement, 45 x 132 ft. addition, 1511 Douglas St., to F. P. Gould & Son, 1137 City Natl. Bank Bldg., for T. Kilpatrick Co., 1511 Douglas St. Archts. est. $300,000. Noted Feb. 11.

Mo., St. Louis—OFFICE—See "Unclassified."

Wash., Olympia—BANK—A. H. Albertson, archt., Henry Bldg., Seattle, 5 story and basement, 60 x 120 ft., rein.-con., and terra cotta, 4th and Washington Sts., here, to Reid Bros., Montesano, for Security Bank. $175,000.

Calif., Burbank — STUDIO — First Natl. Pictures, Inc., 918 South Olive St., Los Angeles, forty 1 story motion picture buildings, Olive and Pass Aves., to Austin Co. of California, 777 East Washington St. Archts. est. to exceed $500,000. Noted Mar. 4.

Calif., Crescent City — HOTEL — O. B. Lauff, 4 story, rein.-con. hotel, to C. S. Mabrey Co., Ochsner Bldg., Sacramento. $150,000.

Calif., Los Angeles—APARTMENT—R. J. Dembroff, 4 story, 72 x 201 ft., brick and rein.-con., 2017 Argyle Ave., to S. F. Bard & Co., 566 Chamber of Commerce Bldg., $225,000.

Calif., Los Angeles—APARTMENT—M. P. Raab, 4 story and basement, 135 x 185 ft., concrete, Yucca St., to Bard & Co., Chamber of Commerce Bldg., approximately $350,000.

Calif., Los Angeles—APARTMENT—L. A. Rose, 1274 South Western Ave., will build 4 story, 120 x 125 ft., concrete, South Western Ave., by day labor.

Buildings—Commercial (Continued)

Calif., Los Angeles — APARTMENT — T. H. Walker, 5921 Hollywood Blvd., 4 story and basement, 88 x 140 ft., concrete, Sunset Blvd., to Whiting, Boynton & Potts, Central Bldg., $165,000.

Calif., Los Angeles—CLUB—Concordia Athletic Club, 5 story and basement, 100 x 175 ft., concrete, South Westlake Ave., to Bard & Co., Union Oil Bldg. Archts. est. $175,000.

Calif., Los Angeles—GARAGE—Los Angeles Water & Power Comn., 207 South Bway., will build 5 story, 61 x 150 ft., steel and rein.-con. addition, 220 South Hill St., by day labor. $200,000. L. L. Smith, 833 South Spring St., archt.

Calif., Los Angeles—THEATRE, STORE and OFFICE — W. H. Fisher, Union Oil Bldg., 2 story and basement, rein.-con., brick and steel, Sycamore and Wilshire Blvds., to A. Parkinson, 3977 South Vermont Ave., $200,000. Noted Apr. 1.

Calif., Los Angeles — WAREHOUSE — Prudential Storage Co., 1617 South Vermont Ave., 5 story, 50 x 120 ft., rein.-con., South Vermont Ave., to J. M. Cooper, Rives-Strong Bldg.

Calif., Oakland — HOTEL — Leamington Annex (J. W. Leamington), Ray Bldg., 10 story and basement, concrete annex, Franklin St. near 19th St., to A. Johnson, 74 New Montgomery St., San Francisco, $350,000.

Calif., Sacramento — BANK — California Natl. Bank, 4 story, concrete and steel, 7th and J Sts., to G. D. Hudnutt, 1915 South Sacramento St., approximately $154,000. Noted Oct. 22.

Calif., San Francisco—APARTMENT—L. Johnson, 729 Occidental Ave., San Mateo, will build 6 story and basement, concrete, Hyde and Ellis Sts., by day labor. $150,000.

Calif., San Francisco—APARTMENTS—E. Jose, 251 Kearny St., will build four 3 story and basement apartments, Fell St. near Stanyan St., by day labor. $40,000 each. H. C. Baumann, 251 Kearny St., archt.

Calif., San Francisco—APARTMENT—E. V. Lacey, Humboldt Bank Bldg., will build 4 story and basement, rein.-con., Gough and Ivy Aves., by day labor. $160,000. J. C. Hladik, Monadnock Bldg., archt.

Calif., San Francisco — THEATRE and STORE — A. Levin, et al., c/o Reid Bros., archts., 105 Montgomery St., 100 x 162 ft. Class A, 24th and York Sts., to MacDonald & Kahn, 130 Montgomery St., $175,500.

Ont., Toronto—OFFICE—Federal Building Corp., 85 Richmond St. W., 11 story and basement, 75 x 80 ft., rein.-con. and brick, plain foundation, Bay and Albert Sts., to Yolles & Rotenberg, Ltd., 85 Richmond St. W. Archts. est. $500,000. Noted Mar. 4.

T. H., Honolulu — J. Morgan, archt., Merchants Exch. Bldg., San Francisco, Calif., 3 story and basement, rein.-con., with swimming pool, here, for Y. W. C. A., to Young Eng. Co., Honolulu, $325,000. Noted Jan. 21.

Buildings—Industrial

Proposed Work

Mass., Brookfield — FACTORY — McLauren-Jones Co. having plans prepared by S. H. Pitcher Co., engrs. and archts., 44 Front St., Worcester, 2 story and basement, 65 x 85 ft. addition. To exceed $40,000.

Mass., Lynn—FACTORIES—T. A. Kelly & Co., 6443 Summer St., plans rebuilding 2 factories, recently destroyed by fire. To exceed $40,000. Engineer and architect not selected.

Mass., Westfield — FACTORY — Foster Machine Co. had plans prepared by M. B. Harding, Main St., 3 story, 80 x 235 ft., rein.-con. and brick addition, South Broad St. $200,000.

R. I., Bristol—FACTORY—Ford Motor Co., Highland Park, Detroit, Mich., purchased 130 acre site and plans 1 story timber factory, on shore of Narragansett Bay, here. To exceed $150,000. Private plans.

Conn., Windsor Locks—POWER PLANT—Northern Conn. Power Co., c/o J. G. White Eng. Corp., engrs. and archts., 43 Exchange St., New York, having preliminary plans prepared power plant. $200,000.

N. Y., Brooklyn—PRINTING PLANT—New York Daily News, 25 Park Pl., New York City, having plans prepared by Lockwood, Greene & Co., Inc., engrs. and archts., 1 Pershing Sq., New York City, 110 x 290 ft., brick, steel and stone, plain foundation, Carlton and 6th Aves., here. $750,000.

N. Y., Lockport—BASKET FACTORY—Barden & Robson Corp., Pen Yan, plans basket factory, Van Buren St., here. $100,000.

N. Y., Rochester—ICE CREAM PLANT—McCormick Co., archts., 127 South Negley St., Phila., Pa., soon takes bids brick, plain foundation, White St., here, for Rochester Ice Cream Co. $100,000.

N. Y., Rochester — INDUSTRIAL — Stromberg Carlson, University Ave., having plans prepared by J. F. Warner, Granite Bldg., two 1 story and basement, 160 x 460 ft., rein.-con., Blossom Rd. $300,000 each. S. Firestone, 59 South Ave., engr.

N. Y., White Plains—SERVICE and REPAIR GARAGE — International Motor Truck Co., 25 Bway., New York City, soon takes bids rein.-con., brick and stone, plain foundation, Kensico Ave., here. $200,000. E. E. Seelye, 101 Park Ave., New York City, engr. and archt.

Pa., Ellwood City—FREIGHT STATION Pittsburgh & Lake Erie R.R. Co., Pittsburgh & Lake Erie Terminal Bldg., Pittsburgh, A. R. Raymer, ch. engr., plans 1 and 2 story, brick and steel freight station, here. $150,000.

Pa., Pittsburgh — CANDY FACTORY — D. L. Clark Co., Martindale St. N. S., having plans prepared 3 story and basement, brick and steel addition, Corry St. $50,000. P. Dietz, Lyceum Bldg., engr.

Va., Richmond—POWER PLANT, etc.—Roanoke River Power Co. plans power plant on Roanoke River at Buggs Island.

N. C., Burlington — GAS PLANT — Pub. Serv. Co., plans gas plant, mains, etc.

N. C., Hallsboro—LUMBER PLANT—North Carolina Lumber Co. plans rebuilding large plant, recently destroyed by fire. $100,000.

N. C., Roseboro—COTTON MILL, etc.—Roseboro Mills, Inc., had plans prepared and soon lets contract 5,000 spindle mill and warehouse. R. C. Biberstein, Charlotte, engr.

Fla., Fort Myers—GAS PLANT—Voted $140,000 bonds, additions and extensions to gas plant. O. M. Davison, mayor. Noted Mar. 18.

Ala., Bessemer—PATTERN SHOP and STORAGE—U. S. Cast Iron Pipe & Fdry. Co., G. Jones, mgr., plans rein.-con., brick and steel shop. $100,000. Private plans.

Ala., Birmingham — PLANT — McWane Cast Iron Pipe Co., 27th Ave. N., soon lets contract 40 x 220 ft. steel addition. $100,000.

Tennessee — POWER PLANTS — See "Unclassified."

Tenn., Cookeville — FACTORY — Cookeville Shoe Co. having preliminary plans prepared 3 story, 80 x 200 ft., brick, plain foundation, Cedar St. $200,000. Engineer and architect not announced.

Tenn., Knoxville—LUMBER PLANT, etc. — Rose Lumber Co. plans power plant, warehouse, additions, etc. $250,000.

Tenn., Lewisburg — HYDRO-ELECTRIC PLANT — Southern Cities Power Co., Columbia, purchased site and plans 2,000 kw. hydro-electric plant 12 mi. north of here. $100,000. Engineer and architect not announced.

O., Alliance—FACTORY—Transue Williams Corp., West Ely St., plans 1 story, 80 x 240 ft. factory. $75,000.

Mich., Grand Rapids—FACTORY—Amer. Seating Co., 901 Bway., plans 4 story and two 1 story, rein.-con., brick and steel buildings, plain foundation. Smith, Hinchman & Grylls, 800 Marquette Bldg., Detroit, archts.

Ill., Decatur—POWER PLANT—A. E. Staley Mfg. Co. plans 2 story and basement, rein.-con., brick and steel, plain foundation, Staley Grounds. $500,000. Private plans.

Ind., Summitville — WAREHOUSE — Summitville Canning Co., having plans prepared 1 story, brick and steel warehouse. $40,000. Private plans.

Wis., Milwaukee — FOUNDRY — Loeffelholz Co., 170 Clinton St., had plans prepared by H. C. Haeuser, 445 Milwaukee St., 1 story, 52 x 140 ft., brick and steel addition, plain foundation, Oregon St. $40,000.

Mo., Pacific—BRICK PLANT, etc.—Missouri Hardstone Brick & Tile Co., c/o World Utilities Corp., Inc., 706 Laclede Gas Light Bldg., St. Louis, having plans prepared by F. O. Taxis, Chemical Bldg., St. Louis, 1 story, 41 x 70 ft. and 70 x 95 ft., also 4 story, 61 x 95 ft., rein.-con., brick and tile administration and brick plant, here. $100,000.

Ark., El Dorado—ICE PLANT—Terry Dairy Co., 18th and Scott Sts., Little Rock, made plans 1 story, 40 x 100 ft., 25 ton daily capacity, concrete and brick, Rock Island R.R. tracks, here. $40,000. Private plans.

Tex., Brady—BRICK PLANT—Stock Co., c/o J. D. McKee, 230 Argyle Ave., San Antonio, plans brick plant. $50,000. Engineer and architect selected soon.

Tex., Gonzales — ICE PLANT — Texas Central Power Co., c/o Frost Bldg., San Antonio, plans 1 story, 40 ton capacity, brick, concrete and steel plant. $135,000. J. Marriott, Frost Bldg., San Antonio, engr.

Tex., Houston—WAREHOUSE—Missouri Kansas & Texas R.R. Co., Ringer, ch. engr., St. Louis, Mo., having plans prepared by L. A. Sparks, Ry. Exch. Bldg., St. Louis, Mo., 6 story, 191 x 280 ft., rein.-con., brick, steel and tile warehouse with one story 53 x 220 ft. wing, North Main and Shea Sts., here. $1,000,000.

Tex., Kingsville—PLANT—San Antonio Cotton Mills, plans plant addition. $50,000. Private plans.

Tex., Panhandle—ICE PLANT—Holcroft & Simpson, Wynona, Okla., plans 1 and 2 story, 200 ton capacity, concrete and steel plant. $200,000. Private plans.

Tex., Raymondville—GIN PLANT—Willacy Gin Co., had plans prepared 6 stand 80 saw capacity gin plant. $40,000. Private plans.

Tex., Sinton — PLANT — Texas Central Power Co., Frost Bldg., San Antonio, plans concrete, brick and steel, 30 ton capacity ice plant. $60,000. Private plans.

Okla., Bartlesville — COTTON COMPRESS — Sharp & Hatcher Co., Muskogee, plans cotton compress, here. $60,000.

Okla., Muskogee—PLANT—Pure Oil Co., Cherokee St., here, and Chestnut and High Sts., Columbus, O., plans enlarging plant, from 2,000 to 5,000 bbl. capacity, two 2,000 bbl. cross-cracking plants, one 5,000 bbl. tube still, two 600 bbl. stills, erecting two 55,000 bbl. capacity steel storage tanks, 12 machine sharp processes to make tube cold test cylinder stock, and additions to smaller storage tanks. $600,000. Private plans.

Calif., Fresno — MORTAR MIXING PLANT—Fresno Builders Supply Co., 2150 G St., had plans prepared 2 story, 50 x 100 ft., rein.-con., Tehama and Divisadero Sts. $40,000. Private plans.

Calif., Los Angeles—FACTORY—White Motor Truck Co., 842 East 79th St., Cleveland, O., purchased site and having tentative plans prepared factory, Washington St. and Maple Ave., here.

Calif., Marysville—GAS PLANT—Pacific Gas & Electric Co., 245 Market St., San Francisco, plans gas generating plant, here. $500,000.

Calif., Oakland — PAINT FACTORY — Pacific Paint & Varnish Co., 85 2nd St., San Francisco, plans rein.-con., 4th. and Cedar Sts. $40,000 or more.

Calif., Richmond—FACTORY—Standard Sanitary Mfg. Co., 1000 Brannan St., San Francisco, having plans prepared by J. J. Donovan, Tapscott Bldg., Oakland, 2 story, 135 x 250 ft., rein.-con. factory. $250,000. Noted Mar. 18.

Calif., Sacramento — GARAGE, etc. — Jacobs Motor Co., 16th and K Sts., plans 2 or 3 story, fireproof garage, auto sales rooms and service shops, 13th and J Sts. $60,000.

Calif., San Francisco — GARAGE and SERVICE SHOPS—Mercantile Trust Co., 464 California St., having plans prepared 4 story, rein.-con., Clay St. near Kearny St. To exceed $75,000. C. H. Snyder, 251 Kearny St., engr.

Calif., San Francisco — FACTORY — Couchot & Rosenwald, engrs., 60 Sansome St., soon take bids 2 story and basement, rein.-con., Pacific St. near Battery St., for Traung Label & Lithograph Co., 962 Battery St. $160,000.

Calif., Wilson (mail Tudor)—SUB-STATION—Great Western Power Co. of California, 530 Bush St., San Francisco, had plans prepared by Ashley & Evers, 58 Sutter St., 2 story, rein.-con., here, near Tuttle Sta. $100,000.

N. S., Halifax — COLD STORAGE PLANT — J. W. Norcross, 65 Victoria St., Montreal, Que., soon takes bids cold storage plant, here. $2,000,000.

Que., Cap-de-la-Madeleine—FACTORY—St. Maurice Valley Corp., plans 4 story building containing steel digester. $100,000. S. W. Slater, Cap-de-la-Madeleine, engr.

Ont., Port Arthur—MILL—Thunder Bay Paper Co. plans 60 ton per day sulphide plant, supplementary to 400 ton paper mill, which company also proposes building.

Buildings—Industrial (Continued)

Ont., Tillsonburg—FACTORY—International Cooperage Co., Sugar St., Niagara Falls, N. Y., plans branch factory, here. $50,000.

Bids Desired

Mass., Cambridge (Boston P. O.) — FACTORY — Natl. Co., W. A. Ready, pres., 110 Brookline St., taking bids 2 story, 45 x 95 ft., brick addition. $40,000. Private plans.

Mass., East Walpole—STORAGE—Apr. 8, by Bird & Son, Inc., 3 story and basement, 75 x 260 ft., brick storage building. $150,000. Monks & Johnson, 99 Chauncy St., Boston, archts.

Mass., Everett—REPAIR and SERVICE GARAGE—See "Contracts Awarded."

Mass., Everett (Boston P. O.)—REPAIR GARAGE—See "Contracts Awarded."

Mass., Somerville — FACTORY — E. F. Kemp, Skelton Ave., taking bids 2 and 3 story, timber addition. $40,000. W. Sidebottom, 101 Tremont St., Boston, archt.

Mass., Somerville—REPAIR and SERVICE GARAGE — Winter Hill Realty Co., Inc., 383 Bway., taking bids 2 story, 11,000 sq.ft. floor space, rein.-con. and brick, plain foundation, Bond St. $100,000. S. H. Watkins, 164 Federal St., Boston, archt.

Mass., Quincy (Boston P. O.) — MANUFACTURING—See "Contracts Awarded."

Conn., New Haven—ROUND HOUSE—See "Contracts Awarded."

N. Y., New York — SERVICE and REPAIR GARAGE—See "Contracts Awarded."

Pa., Sharpsville — INGOT MOULD PLANT—See "Contracts Awarded."

Ala. Gadsden—TEXTILE—Secretary Sauquoit Spinning Co. of Alabama soon lets contract 2 story, 104 x 400 ft. with 50 x 80 ft. wing, also one 40 x 80 ft. building, and three 50 x 100 ft. warehouses. $500,000. Private plans.

O., Cleveland—FACTORY—Bohnard & Parsson, archts., 1900 Euclid Bldg., taking bids 2 story and basement, 52 x 165 ft., rein.-con., brick and steel, 14025 Aspinwall Ave., for Lindsay Wire Weaving Co., H. L. Lindsay, pres., 14025 Aspinwall Ave. $75,000.

Ill., Chicago — FACTORY — Marshall & Fox, archts., 431 North Michigan Ave., taking bids 6 story and basement, 66 x 196 ft., rein.-con., and brick addition, West 21st St. and Union Ave., for S. Karpen & Bros., West 21st St. and Union Ave. $300,000.

Wis., Gap Mills — POWER PLANT — Interstate Power Co., c/o A. Ortin, mgr., Dubuque, Ia., taking bids 1 story, 75 x 90 ft., rein.-con., brick and steel hydro-electric power plant on Kickapoo River. $60,000. Private plans.

Wis., Milwaukee — LIGHT MANUFACTURING — W. J. Kozick, archt., 664 26th St., taking bids 3 story and basement, 32 x 100 ft., brick and concrete, plain foundation, Bway., for Ruesch Printing Mchy. Co., 485 Bway. $50,000.

Wis., Milwaukee—FACTORY—Dick & Bauer, archts., 811 State St., taking bids 2 story and basement, 52 x 150 ft., brick and concrete addition, plain foundation, for Aderaft Realty Co., 337 7th St. $50,000.

Calif., Los Angeles—SUB-STATION—See "Contracts Awarded."

Que., Three Rivers—MILL—St. Lawrence Paper Co., Ltd., taking bids paper mill. $2,000,000. O. H. White, Three Rivers, and Montreal, archt.

Contracts Awarded

Mass., Boston—MACHINE SHOP—D. R. Campbell Machine Co., 52 Purchase St., 1 story, 40 x 110 ft., brick, Mildred Ave., to C. C. Temple Co., 99 Chauncy St. Archts. est. $40,000.

Mass., Boston—REPAIR and SERVICE GARAGE — W. Saitz, 18 Harold St., Dorchester, 1 story, 75 x 180 ft., rein.-con. and brick, 1048 Harrison Ave., here, to Hub Constr. Co., 333 Washington St. Archts. est. $50,000.

Mass., Cambridge (Boston P. O.) — POWER PLANT — Cambridge Electric Light Co., altering 1 story, rein.-con., brick power plant, to H. R. Kent & Co., 5 Erie Ave., Rutherford, N. J.

Mass., Everett—REPAIR and SERVICE GARAGE—P. Levine, 29 Creston St., Roxbury, will build 1 story, 150 x 375 ft., brick and steel, Ferry St. near Glendale Sq., here, by day labor. $175,000. Miller & Levi, 46 Cornhill, Boston, archts.

Mass., Everett (Boston P. O.)—REPAIR GARAGE—R. & B. Fuel Co., 108 Bow St., will build 1 story, 70 x 80 ft. garage. $40,000. Work will be done by separate contracts. Schein & Levine, 448 Bway., Chelsea, archts.

Mass., Medford—REPAIR—J. J. Mahoney, 10 Fountain St., 1 story, 21 x 88 x 114 ft., rein.-con., plain foundation, to Frankini Bros., 30 Mystic Ave. Archts. est. $50,000.

Mass., Quincy (Boston P. O.) — MANUFACTURING — Norfolk Iron Co., 33 Newport Ave., will build 1 story 70 x 150 ft., brick and steel, Norfolk Downs. $40,000. Work will be done by separate contracts. Private plans.

Mass., Roxbury (Boston P. O.)—PLANT —F. E. Gordon, 420 Talbot Ave., Dorchester, 1 story, 60 x 90 ft. and ell, rein.-con. and brick, Sedrick and Langdon Sts., to J. McDonald Constr. Co., 77 Summer St., Boston. Archts. est. $40,000.

Mass., Somerville (Boston P. O.)—REPAIR and SERVICE GARAGE — A. S. Schatman, Old South Bldg., Boston, 1 story, rein.-con., brick and stone, here, to Frankini Bros., 30 Mystic Ave., Medford. Archts. est. $60,000.

Mass., Worcester—PLANT—Amer. Steel & Wire Co., Grove St., new mills, replacing old structures, to Morgan Constr. Co., 15 Belmont St. Archts. est. $1,000,000.

R. I., Providence — PAINT PLANT — U. S. Gutta Percha Paint Co., 12 Dudley St., brick and steel addition, Dudley St., to A. W. Merchant, Inc., 728 Hospital Trust Bldg. Archts. est. $40,000.

Conn., New Haven — WAREHOUSE — Standard Oil Co., 138 Forbes Ave., 1 story, 60 x 80 ft. and 52 x 122 ft., brick and concrete, to Immick Co., State St., Meriden. Archts. est. $50,000.

Conn., New Haven—ROUND HOUSE—New York, New Haven & Hartford R.R., E. Gagel, ch. engr., will build 1 story, 255 x 300 ft., brick and steel, Cedar Hill. $50,000. Work will be done by separate contracts. Private plans.

N. Y., Brooklyn — REFINERY and WAREHOUSE—Amer. Sugar Refining Co., 117 Wall St., New York City, warehouse, syrup station, boiler house, wharf, etc., here, to Stone & Webster, 127 Milk St., Boston, Mass. Noted Jan. 7.

N. Y., New York—RADIO PLANT—Ballinger Co., archts., 12th and Chestnut Sts., Phila., Pa., 4 story, 80 x 89 x 100 x 140 x 158 x 225 ft. and 89 x 140 ft., Eastern Blvd., Walton and Mott Aves., here, to White Contg. Co., 95 Madison Ave., for Andrea Healding Corp., Walton and Mott Aves. Noted Jan. 28.

N. Y., New York — SERVICE and REPAIR GARAGE—J. DeHart, 1041 Fox St., will build rein.-con., brick and steel, plain foundation, Cromwell Ave. $75,000. Work will be done by separate contracts.

N. Y., Portland Point—MACHINE SHOP and PACK HOUSE—Pennsylvania Cement Co., 131 East 46th St., New York City, rein.-con., brick and steel, plain foundation, to Turner Constr. Co., 244 Madison Ave., New York City. Archts. est. $300,000.

N. J., Bloomfield—FACTORY—Amer. La France Fire Engine Co., 67 Brookside Pl., 1 story, rein.-con., brick and steel, plain foundation, to W. Kidde & Co., 140 Cedar St., New York City. Archts. est. $50,000.

N. J., Harrison — CAR SHOP — Otis Elevator Co., Inc., 17 East 42nd St., New York City, 1 story, 80 x 100 ft., rein.-con., brick and steel, plain foundation, here, to J. Stewart & Co., Inc., 17 East 42nd St., New York City.

Pa., Phila. — BOX FACTORY — E. J. Schoetle Co., 533 North 11th St., 9 story and basement, 50 x 101 ft., concrete and brick, plain foundation, 11th and Brandywine Sts., to Nelson Pedley Co., Corn Exch. Bldg.

Pa., Phila. — MANUFACTURING — Certainteed Products Co., 2nd and Erie Sts., two 1 story, 71 x 144 ft., and 50 x 105 ft., also 3 story, 50 x 210 ft., rein.-con. and brick additions, plain foundations, 2nd and Erie Sts., to Stofflet & Tillotson, Wesley Bldg., $200,000.

Pa., Scottdale — FORGE and BLACKSMITH SHOP — U. S. Cast Iron Pipe & Fdry. Co., 71 Bway., New York City, N. Y., 1 story, rein.-con., brick and steel forge and blacksmith shop, to Austin Co., 217 Bway., New York City, N. Y.

Pa., Sharpsville — INGOT MOULD PLANT — Shenango Furnaces Co., will build 1 story, 120 x 216 ft., and 210 x 584 ft., steel and corrugated iron, 6th and High Sts. Work will be done by separate contracts. Private plans.

N. C., Greensboro—MILLWORK WAREHOUSE—Morgan Millwork Co., 2 story, 200 ft. long, brick, Scott Ave., to J. R. Owen, Greensboro. Engrs. est. $100,000.

Fla., Tampa — FACTORY — R. Hoffman, Inc., 606 Northern Blvd., Long Island City, N. Y., 2 story, 86 x 150 ft., 22nd Ave. and 26th St., here, to Friend & Bouner, 305 Cass St., Tampa. Archts. est. $250,000.

La., Lake Charles—RICE MILL—Lake Charles Milling Co. of Louisiana, J. A. Foster, pres., 5 story, 47 x 77 ft. mill, 100 x 400 ft. warehouse, 2 story, 32 x 50 ft. office building, etc., to P. Olivier & Son, Lake Charles. Archts. est. $500,000.

La., New Orleans — GARAGE and WAGON WORKS—M. H. Goldstein, archt., Hibernia Bank Bldg., 5 story, rein.-con., Gravier St. between Saratoga and Rampart Sts., to L. F. Favret, Louisiana Bldg., for Thomson Bros. $86,998. Noted Mar. 11.

Ohio—ELECTRIC CONTROL STATIONS —Cleveland Electric Illuminating Co., W. H. Hartman, purch. agt., Illuminating Bldg., Cleveland, three 1 story and basement, 36 x 58 ft., brick and concrete, one on Front St., Beres one on Pleasant Valley Rd., Brecksville, and other on Hillside and Center Ridge Rds., Cleveland, to D. Gilchrist, Berea. Archts. est. $100,000.

O., Akron—FACTORY—A. Schrader & Sons, Inc., 705 Johnson St., 5 story and basement, 52 x 200 ft., brick and steel, to Turner Constr. Co., 11 Goodell St., Buffalo, N. Y., $300,000.

O., Akron — BAKERY — Purity Bakeries Corp., 118 West 47th St., Kansas City, Mo., 2 story, brick and concrete addition, to Fogel Constr. Co., 619 Reliance Bldg., Kansas City, Mo. Archts. est. $75,000.

O., Cincinnati—GALVANIZING PLANT —Witt Cornice Co., 2118 Winchell St., 1 story, 100 x 300 ft., steel, to Austin Co., 16112 Euclid Ave., Cleveland.

O., Cleveland — FACTORY — Empire Phone Parts Co., c/o W. J. McNamara, 2261 East 14th St., 2 story and basement, 61 x 110 ft., brick and timber, 10316 Madison Ave., to T. P. Carey, 10500 Lake Ave. Archts. est. $50,000.

O., Gallipolis — POWER HOUSE — Dept. Welfare, 9th and Oak Sts., Columbus, 2 story and basement, 51 x 105 ft., brick addition at Institution for Epileptics, to R. B. Childs, Findlay, $37,000. Noted Feb. 4.

Ind., Indianapolis — FACTORY — T. L. Green & Co., 202 Miley Ave., general contract 2 story, 82 x 90 ft., brick and rein.-con., to E. H. Pierson, 2934 Kenwood Ave. Archts. est. $40,000.

Ind., Indianapolis — BAKERY — Purity Bakeries Corp., 118 West 47th St., Kansas City, Mo., 2 story and basement, 60 x 80 ft., rein.-con. addition, to Fogel Constr. Co., 619 Reliance Bldg., Kansas City, Mo. Archts. est. $40,000.

Ind., South Bend—FACTORY—Hibberd Printing Co., 116 Hibberd Court, general contract 2 story and basement, 81 x 165 ft., brick and steel factory, to H. G. Christman Co., 306 South Notre Dame St. Archts. est. $150,000.

Mich., Detroit — HEATING PLANT — Dept. Pub. Wks., City Hall, general contract 2 story and basement, 50 x 99 ft., rein.-con., brick and steel, plain foundation, Mullet and St. Antoine Sts., to Martin & Krausman Co., 955 Jefferson Ave., $81,000; boilers, etc., to Drake Avery, 210 State St., $210,150. Noted Feb. 25.

Ill., Chicago—NEWSPAPER PLANT—Chicago Tribune, 431 North Michigan Ave., substructure contract of north addition Tribune Tower, consisting 3 basements and press room floor, 118 x 132 ft., rein.-con. and steel, caisson foundation, etc., to R. C. Wieboldt, 1534 West Van Buren St. Archts. est. to exceed $1,000,000.

Ill., Chicago—FACTORY—S. C. Joy, archt., 2001 West Pershing Rd., masonry contract 6 story, 50 x 180 ft., rein.-con. and brick addition, 2164 Claybourn Ave., to A. Nenson, 1100 North Central Park Blvd., carpentry, to F. E. Doherty, Jr., Chamber Commerce Bldg., for Zangerle & Peterson, 2164 Claybourn Ave. Archts. est. $145,000. Noted Jan. 14.

Ill., Evanston — MACHINE SHOP and POWER PLANT — Natl. Biscuit Co., West 15th St., New York City, 3 story, rein.-con., brick, steel, stone, brick and terra cotta, here, to R. C. Wieboldt 1534 West Van Buren St., Chicago. Archts. est. $300,000.

Wis., Milwaukee—BAKERY—O. Jaeger Baking Co., 914 Central Ave., 2 story, 100 x 150 ft., rein.-con., brick and steel addition, plain foundation, to Reisinger & Co., 464 Oakland Ave. Archts. est. $150,000.

Wis., West Allis—MACHINE SHOP—Fulton Co., 732 75th Ave., 1 story, 60 x 180 ft., brick and steel addition, plain foundation, 75th Ave., to Pfeifer Constr. Co., 486 66th Ave. Archts. est. $40,000.

Mo., St. Louis—SASH and DOOR PLANT —Huttig Sash & Door Co., 1208 South

Buildings—Industrial (Continued)

Vandeventer Ave., 4 story and basement, 31 x 117 ft., brick and concrete addition, to Seldon Breck Constr. Co., 1108 Fullerton Bldg. Archts. est. $100,000.

Tex., Amarillo — PRODUCE — A. J. Thompson Produce Co., c/o H. Bartlett, mgr., 1 story and basement, 50 x 130 ft., brick and concrete, Grant St., to F. Bone Constr. Co., Amarillo, $40,000.

Calif., Los Angeles — CREAMERY — Adamson Corp., Trust and Savings Bldg., 3 story, 50 x 110 ft., rein.-con., Severy St., to May & Grimwood, Haas Bldg., cost plus percentage basis.

Calif., Los Angeles—SUB-STATION—Los Angeles Gas & Electric Co., 810 South Flower St., will build 2 story, 50 x 120 ft., rein.-con., 717 Jackson St., by day labor. $45,000. Private plans.

Calif., Oakland — FACTORY — Tuttle Cheese Co., 701 7th St., 1 story, brick, Magnolia and 28th Sts., to E. W. Larmer, 90 Fairview Ave. $40,000.

Calif., Sacramento — PLANT — Pioneer Bakery, 3226 Montgomery St., baking plant annex, to H. W. Robertson, 2633 6th Ave., $40,000.

Calif., San Jose—CANNERY—California Packing Corp., 101 California St., San Francisco, 2 story, 200 x 225 ft., brick and timber, at Plant 51, to R. W. Littlefield, 354 Hobart St., Oakland.

Calif., Sunnyvale—PLANT—Schuckel & Co., 16 California St., San Francisco, frame and galvanized iron canning plant addition, to Bridges & Munton, San Jose, $42,000.

Calif., Watsonville—CREAMERY—W. H. Weeks, archt., 369 Pine St., San Francisco, 2 story, rein.-con. creamery, Main St., here, to A. L. Short, Watsonville, for Watsonville Creamery. Approximately, $42,000. Noted Mar. 18.

Man., Winnipeg—PRINTING PLANT—T. Eaton Co., Ltd., 190 Yonge St., Toronto, general contract 2 story and basement, 132 x 163 ft., rein.-con. and brick, plain foundation, Robert St., here, to J. Gunn & Sons, Ltd., Avenue Bldg. Archts. est. approximately $190,000. Noted Feb. 25.

Buildings—Educational, Religious

Proposed Work

Vt., Rockingham — HIGH SCHOOL — Town, Bd. Selectmen, soon take bids 2 story and basement high school. $240,000. Tooker & Marsh, 101 Park Ave., New York, archts.

Mass., East Boston (Boston P. O.)—SCHOOL—Our Lady of Mt. Carmel, A. Martenucci, pastor, 124 Gove St., having sketches made by W. B. Colleary, 80 Boylston St., Boston, 2 story and basement, brick, Gove St. $200,000.

Mass., Natick—HIGH SCHOOL—Town plans Junior High School, 25 room, Coolidge Lot. $300,000 appropriated. Engineer and architect not selected.

Mass., Peabody—SCHOOL—Mayors Office, City Hall, having sketches made by P. Varney, 25 Exchange St., Lynn, 2 story and basement, brick and steel school. $150,000 or more.

Conn., Branford — HIGH SCHOOL — Town, School Bd., Town Hall, plans new high school. $150,000 or more. Engineer and architect not selected.

Conn., Hartford—SYNAGOGUE—Agudud Achim Congregation, D. Traub, chn. building com., having plans prepared by Golden Storrs & Co., 983 Main St., 3 story, stone, Oakland Terrace. $200,000.

Conn., New Haven — FRATERNAL — Yale Architectural Plan Com. Yale University, plans 3 building, one for Zeta Psi, one for Beta Theta Pi and other for Psi Upsilon, York St. $350,000. Dean Everett Meeks, Yale Art School, archt. for former, and James Gamble Rogers, 368 Lexington Ave., New York City, archts. for latter 2 buildings.

Conn., West Haven (New Haven P. O.)—HOME—Methodist Home for Aged, 111 Elm St., having preliminary plans prepared by R. W. Foote, 185 Church St., New Haven, 2 story and basement, 135 x 135 ft., brick and steel, Elm St. and 2nd Ave. $200,000.

N. Y., Astoria (sta. Long Island City)—CHURCH—Trinity Lutheran Church of Astoria, 346 8th Ave., F. H. Lindeman, pastor, soon takes bids brick, steel and stone, plain foundation. $200,000. G. W. Conable, 46 West 24th St., New York City, engr. and archt. Noted Feb. 4.

N. Y., Buffalo—CHURCH, SCHOOL, etc.—St. Martins Roman Catholic Church, Abbott Rd., W. Turner, bishop, Delaware Ave. and West Utica St., plans church, school and convent, Abbott Rd. $200,000.

N. Y., Kenmore—CHURCH, etc.—Kenmore Evangelical Church, plans church, parish house and parsonage, Delaware Rd. $150,000.

N. Y., Little Falls—HIGH SCHOOL—Bd. Educ. having plans prepared by Tooker & Marsh, engrs. and archts., 101 Park Ave., New York City, brick, steel and stone, plain foundation, here. $250,000. This corrects report under Niagara Falls in Mar. 11 issue.

Pa., Pittsburgh—AUDITORIUM—Catholic Diocese of Pittsburgh, Craig St. and 5th Ave., having plans prepared by E. J. Weber, Knights of Columbus Bldg., and A. F. Link, associated archt., 407 North Craig St., 1 story, 56 x 125 ft., brick and steel, 5th Ave. and Boundary St. $150,000.

Pa., Pittsburgh — DORMITORY — St. Pauls Orphanage, Idlewood St., having plans prepared by E. Stotz, Monon Bank Bldg., 3 story and basement, 62 x 150 ft., brick and hollow tile, Idlewood St. $150,000.

Pa., Sharon—SCHOOL—Bd. Educ. having plans prepared by Hanna & Clapper, Sharon, 2 story and basement, 65 x 161 ft., brick on hollow tile school. $200,000.

Md., Baltimore—ART MUSEUM—Mayor and City Council plan irregular shaped, stone, plain foundation, Wyman Park. $1,000,000. H. Sill, 12 East Pleasant St., archt. J. R. Pope, 542 5th Ave. New York City, associated archt. Noted Feb. 4.

Ga., Atlanta—SCHOOLS—Voted $3,500,000 bonds, school buildings and equipment. W. Sims, mayor. Noted Feb. 25.

Fla., Ft. Lauderdale — CHURCH — First Methodist Church having plans prepared by T. D. McLaughlin, Ft. Lauderdale, church in Rio Vista Isles at El Vado St. $200,000.

La., Shreveport — ADMINISTRATION — M. E. Dodd Foundation, having plans prepared by C. W. King, Shreveport, administration building for Girls Junior College, Ockley Dr. $200,000.

Tenn., Chattanooga—SCHOOLS—Hamilton Co. plans election $350,000 bonds, new schools, additions and annexes to present buildings. S. Conner, Court House, co. judge. Engineer and architect not selected.

Ky., Murray—SCHOOL—Murray State Normal School having preliminary plans prepared 3 story and basement, 80 x 170 ft., rein.-con. and brick, plain foundation, on campus. $225,000. J. Carr, pres. Engineer and architect not announced.

Ky., Vanceburg—HIGH SCHOOL—Bd. Educ. having plans prepared by De Voss & Donaldson, Portsmouth, O., 2 story and basement, brick and concrete high school. $200,000.

O., Cincinnati — CHURCH — St. Cecilia Catholic Church, Taylor Ave., having plans prepared by Crowe & Schulte, 2436 Reading Rd., 2 story and basement, 60 x 157 ft., rein.-con. and stone, plain foundation, Madison Rd. $300,000.

O., Cincinnati — GYMNASIUM — St. Xavier College, Victory Blvd., having plans prepared by J. G. Steinkamp & Bro., 1212 Mercantile Library, 1 story and basement, 220 x 250 ft., rein.-con. and brick, Victory Blvd. $250,000. Lieberman & Hein, Chicago, Ill., engrs.

O., Columbus—SCHOOLS—Bd. Educ., E. L. McCune, clk., 207 East State St., having plans prepared by H. D. Smith, 207 East State St., Junior High School, 3 story and boiler room, 150 x 180 ft., brick and concrete, Dresden Ave., $450,000, and Junior and Senior High School, 3 story and boiler room, 200 x 280 ft., stone and brick, Powell Ave., $795,000; also had plans prepared by above architect, 2 story and boiler room, 150 x 170 ft., stone and brick, McGuffey Pike, $185,000.

O., Kent—LIBRARY—Bd. Trustees Kent State Normal School, W. A. Kluff, secy., having plans prepared by Ronan & Ingleson, 1614½ North High St., Columbus, 2 story and basement, 100 x 100 ft., stone and concrete library. $250,000.

Ind., McCordsville — SCHOOL — School Trustees having plans prepared by Henkel & Hanson, Connersville, 2 story and basement, brick and steel school, $150,000. Bevington & Williams, 524 Knights of Pythias Bldg., Indianapolis, engrs.

Ind., Richmond — SCHOOL — Bd. City Trustees having plans prepared by Perkins & Hamilton, 814 Tower Court, Chicago, Ill., brick and steel school. $250,000.

Wis., Fort Atkinson—HIGH SCHOOL—Bd. Educ., c/o J. F. Schreiner, secy., having plans prepared by Parkinson & Dockendoorff, Linker Bldg., La Crosse, Junior High School, 2 story and basement, brick, tile and concrete, plain foundation. $150,000. Noted Mar. 25.

Ia., Ottumwa—CHURCH—C. P. Shockley, archt., 719 Black Bldg., Waterloo, soon lets contract 1 and 3 story, 45 x 110 ft. rein.-con., brick, steel and stone, plain foundation, here, for First Presbyterian Church. $170,000. Noted Oct. 29.

Minn., Duluth — HIGH SCHOOL — Bd. Educ., C. Bronson, secy., soon takes bids 3 story and basement, 66 x 260 ft. with 65 x 235 ft. auditorium wing and 76 x 165 ft. gymnasium, rein.-con., brick and tile, 29th Ave. E. $470,000. C. W. Kelly, 505 Lonsdale Bldg., archt. and engr.

Neb., Lincoln — HIGH SCHOOL — Bd. Educ., c/o J. G. Ludlam, secy., had preliminary plans prepared brick and stone addition, 525 South 13th St. $225,000.

Ark., Fayetteville—COLLEGE—University of Arkansas takes bids about Apr. 10, Engineering Building, 3 story, 88 x 216 ft., and Agricultural Building, 58 x 256 ft., concrete, brick and terra cotta, on campus. $650,000. Jamieson & Spearal, Arcade Bldg., St. Louis, Mo., and H. R. Burke, 307 Southern Trust Bldg., Little Rock, archts. Noted Dec. 17.

Mo., Kansas City—NURSES HOME—Research Hospital having plans prepared by J. G. Bracklein, 220 Kresge Bldg., 4 story and basement, 80 x 140 ft., rein.-con., brick and terra cotta nurses home. $150,000.

Mo., Lexington — SCHOOL — Bd. Educ., c/o Secretary, soon takes bids 3 story, brick, concrete and stone high school. $180,000. J. H. Felt & Co., 300 West 47th St., Kansas City, archts. Noted Dec. 31.

Mo., St. Louis—NURSES HOME—Barnes Hospital and Washington University, 600 South Kingshighway, having plans prepared by W. T. Trueblood & H. G. Graf, Chemical Bldg., 11 story and basement, 55 x 58 x 103 ft., rein.-con., brick, steel and stone, Kingshighway at Forest Park.

Tex., Dallas—SCHOOL—Bd. Educ., C. M. Moore, secy., having preliminary plans prepared by T. J. Galbraith, 517 Slaughter Bldg., 2 story and basement, rein.-con., brick and stone school. $150,000.

Tex., Eastland—SCHOOL—Bd. Educ., J. H. Carton, plans rein.-con., brick and stone school. $200,000. D. S. Castle Co., 701 Alexander Bldg., Abilene, archts.

Tex., San Antonio—CHURCH—Baptist Temple, c/o J. L. Yelvington, pastor, 911 St. Anthony St., plans 2 story church, Gevers and Drexel Aves. $150,000. J. W. Conger, 711 Rigsby Ave., chn. building com.

Tex., Texarkana—COLLEGE—Bd. Educ., c/o W. H. Stilmell, Texarkana, having plans prepared by Witt, Seibert & Halsey, c/o Texarkana Natl. Bank Bldg., for Junior College, 2 story and basement, rein.-con. and brick, plain foundation. $150,000.

Calif., Fresno — SCHOOL — Convent of Holy Cross having plans prepared by E. G. Martin, 520 Citizens Natl. Bank Bldg., Los Angeles, group building for Catholic Girls School, steel and rein.-con., 5 mi. west of here. $500,000 will be expended at this time. Total $1,000,000.

Calif., Los Angeles—SCHOOL—Bd. Educ. soon takes bids Riis School, 1 and 2 story, brick, 69th St. near Main St. $200,000 or more. Dodd & Richards, Bracks-Shops Bldg., archts.

Calif., San Diego—NURSES HOME—Mercy Hospital had plans prepared by I. E. Loveless, Commonwealth Bldg., 4 story, 95 x 150 ft. nurses home.

Calif., San Pedro—SCHOOL—Los Angeles Bd. Educ. had plans prepared by E. C. and E. W. Taylor, 810 West 6th St., Los Angeles, 2 story and basement, 91 x 243 ft. grammar school, Cabrillo Ave., here. $150,000.

Calif., San Rafael — COLLEGE — Marin Co. plans election bonds to exceed $150,000, Junior College buildings.

Calif., Stockton—CHURCH—First Congregational Church plans fireproof, on 150 x 200 ft. site, Willow and Madison Sts. $150,000.

Ont., Toronto—LIBRARY—Pub. Library Bd., 226 College St., plans 2 story, rein.-con., brick and steel, plain foundation, College and St. George Sts. $260,000. Wickson & Gregg, Temple Bldg., and A. H. Chapman, Northern Ontario Bldg., archts. Noted Feb. 11.

Que., Nicolet — COLLEGE — Roman Catholic Church, M. A. Bourgeois, plans 4 story, 100 x 100 ft. college. $300,000 funds being subscribed. Engineer and architect not selected.

Buildings—Educational, Religious (Cont.)

Que., Shawinigan Falls — CHURCH — Roman Catholic Church, M. E. Cloutier, curate, plans St. Peters Church 100 x 200 ft., rein.-con., steel and stone. $175,000. Engineer and architect not selected.

Bids Desired

R. I., Providence—SCHOOL—Apr. 12, by City, Com. Pub. Buildings, City Hall, 2 and 3 story, 86 x 104 ft., and 70 x 190 ft., rein.-con., brick and steel additions, plain foundations. America St. $1,000,000. W. E. Hartwell, City Hall, archt.

N. Y., Corning — HIGH SCHOOL — Apr. 28 (extended date), by Bd. Educ., D. Gilbert, secy., Northside High School, brick, steel and stone, plain foundation, for Union Free High School Dist. 13. Palmer Rogers, 101 Park Ave., New York City, archt. Noted Mar. 18.

N. Y., Montrose—HIGH SCHOOL—Apr. 19, by Union Dist. 6 Bd. Educ., brick, steel and stone, plain foundation. $325,000. Knappe & Morris, 171 Madison Ave., New York City, engrs. and archts.

N. Y., New York—HIGH SCHOOL—Apr. 27, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, Theodore Roosevelt High School, East Fordham Rd. and Bathgate Ave., here, for Bd. Educ., 500 Park Ave.

N. Y., Richmond Hill (Ind. br. Jamaica) —SCHOOL—Apr. 21, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 124, Stanley and Blackstone Aves., here, for Bd. Educ., 500 Park Ave., New York City.

N. Y., Pelham (Ind. br. New York), **N. Y.** —SCHOOL—Apr. 22, by Bd. Educ., 2 story, 50 x 100 ft., brick, steel and stone, plain foundation. $300,000. Starrett & Van Vleck, 393 7th Ave., New York City, engrs. and archts. Noted Jan. 14.

La., Abbeville—HIGH SCHOOL—Apr. 23, by Vermillion Parish School Bd., Courthouse, 2 story, brick high school.

O., Greenville—SCHOOL—Apr. 22, by J. W. Pearce, clk., Butler Twp. Rural School Dist., Darke Co. R. R. 1, 2 story, rein.-con. and brick, plain foundation, near here. $175,000. Walker & Norwick, Amer. Bldg., Dayton, archts.

Ia., Decorah—GYMNASIUM—Apr. 13, by Luther College, 2 story and basement, 100 x 120 ft., rein.-con., steel and stone gymnasium. $175,000. Hansen & Altfillisch, Decorah, archt. Noted Jan. 21.

Ia., Des Moines—CHURCH—Apr. 20, by Dougher, Rich & Woodburn, archts. and engrs., 806 Valley Natl. Bank Bldg., 3 story, 185 x 191 ft., rein.-con. and steel, plain foundation. 41st St. and Ingersoll Ave., for Plymouth-Congregational Church. $300,000. Noted Mar. 25.

Minn., Minneapolis—SCHOOL—Apr. 23, by Bd. Educ., 305 City Hall, 2 story and basement, rein.-con., brick and stone, 50th St. and Humboldt Ave. S. $195,000. Architectural Dept. of Owner, archts.

Kan., Lawrence — AUDITORIUM — Apr. 20 (extended date), by C. D. Cuthbert, state archt., State Capitol Bldg., Topeka, 1 story and basement, 135 x 180 ft., steel, plain foundation, here, for State University of Kansas. $250,000. Noted Mar. 25.

Neb., Seward — REFECTORY — Apr. 15, by Local Bd. Directors, Teachers Seminary of Evangelical Lutheran Seminary of Missouri, Ohio and other states, at Seward, refectory building, here. To exceed $150,000. A. D. Baker, Grand Island, archt.

Mo., Kansas City—HIGH SCHOOL—Bd. Educ. taking bids rein.-con., brick and stone addition to Southwest High School. $350,000. C. A. Smith, 800 Finance Bldg., archt.

Calif., Beverly Hills — SCHOOL — Bd. Trustees Beverly Hills School Dist., taking bids, 2 story and basement, rein.-con. school. To exceed $150,000. Gable & Wyant, 634 South Western Ave., Los Angeles, archt. Noted Feb. 11.

Calif., Los Angeles — GARAGE — See "Contracts Awarded."

Que., Sherbrooke—SCHOOL—Apr. 15, by L. N. Audet, 30 Wellington St. N., 4 story, 60 x 200 ft., rein.-con. and brick, Marquette St., for Sister St. Famille. $600,000. Noted Apr. 24, 1924.

Bids Received

N. J., Nutley (br. Newark) — HIGH SCHOOL—Bd. Educ., Park School Bldg., Franklin Ave., Mar. 26, high school, Franklin Ave., from T. M. Day & Sons, Fitz-Charles Bldg., Trenton, $503,983. Noted Mar. 11.

Neb., Omaha—SCHOOL—Bd. Educ., M. E. Bird, secy., general contract 2 story and basement school, 45th and Hamilton Sts., from A. Borchman Sons, 4205 Lake St., $132,000; heating, plumbing, etc., from Interstate Heating & Plumbing Co., 1914 Farnam St., $29,200.

Calif., Los Angeles—COLLEGE—A. C. Martin, archt., Higgins Bldg., general contract 2 story, 120 x 250 ft., rein.-con. and brick, 3rd and Detroit Sts., from Sumner-Sollitt Co., Delta Bldg., for Roman Catholic Archbishop of Los Angeles. $239,700. Noted Mar. 18.

Calif., Los Angeles—HIGH SCHOOL—Bd. Educ., Horace Mann Junior High School, part 1, 2 and 3 story, 180 x 527 ft. main construction, and 75 x 150 ft. shop, rein.-con., from C. P. Day Corp., Boston Bldg., Pasadena, $267,655. Noted Apr. 1.

Contracts Awarded

Mass., Allston (Boston P. O.)—SCHOOL —City, Schoolhouse Dept., Boston, Auburn School, 1 story and basement, stone and granite, Thomas Gardner Dist., to J. Rugo, 80 Boylston St., Boston. Archts. est. $150,000.

Mass., Medford (Boston P. O.)—DORMITORY—Tufts College, S. Robbins, chn., 20 Pemberton Sq., Boston, 3 story and basement, 110 x 125 ft., brick and limestone, plain foundation, College Grounds, to J. Driscoll & Sons Co., 94 Washington St., Brookline. Archts. est. $200,000. Noted Mar. 25.

Mass., Somerville (Boston P. O.) — SCHOOL—St. Catherine's Roman Catholic Church, J. J. O'Brien, 2 story and basement, 70 x 135 ft., brick and stone, Summer St., Spring Hill Sect., to F. S. Shannan, 11 Beacon St., Boston. Archts. est. $150,000.

Pa., Pittsburgh — CHURCH — German Lutheran Church, 205 South Neville St., general contract 2 story and basement, irregularly shaped, brick and stone, Neville St., to E. A. Wehr, Highland Bldg. Archts. est. $400,000. Noted Oct. 22.

La., Plaquemine — CHURCH — St. John the Evangelist, Catholic Church, G. Bosch, pastor, general contract 2 story and tower, 74 x 210 ft., brick, steel and stone, to J. V. and R. T. Burkes, Carondelet Bldg., New Orleans. Archts. est. $300,000. Noted Sept. 24.

O., Ashtabula — HIGH SCHOOL — Bd. Educ., general contract 3 story and basement, brick, steel and concrete, to Payne & Beymer, Painesville, $750,000. Noted Mar. 25.

O., Kent — TRAINING SCHOOL — Kent State Normal School, 3 story and basement, 65 x 274 ft., rein.-con., brick and steel, to V. W. Surber, 109 North Union St., Akron, $264,000. Noted Mar. 18.

O., Madisonville — CHURCH — Madisonville Methodist Episcopal Church, 3 story and basement, rein.-con. and stone, plain foundation, Madison Rd., to Weber-Bell Co., Townsend St., Cincinnati. $185,000.

O., Oakharbor — CHURCH — Corbusier, Lenski & Foster, archts., B. F. Keith Bldg., 1 story and basement, 56 x 140 ft., brick, to Boldt Constr. Co., 1969 East 70th St., Cleveland, here, for St. Johns Lutheran Church, B. F. Brandt, pastor. Archts. est. $150,000. Noted Feb. 25.

Ind., Fowler — SCHOOL — L. Gunnels, Trustees and Advisory Com. Center School Twp. Benton Co., 1st Natl. Bank Bldg., 2 story and basement, brick and stone school, to Medland Bros., Logansport. Archts. est. $150,000. Noted Mar. 11.

Ind., Greensburg — CHURCH — First Methodist Church, A. Whitman, pastor, 311 North Bway., general contract brick and steel church, to Dunlap & Co., Columbus. Archts. est. $150,000.

Ind., Mishawaka—SCHOOL—Bd. School Trustees, general contract 2 story, 112 x 162 ft., brick and stone school, to Smoger Lumber Co., 501 Carlisle St. Archts. est. $160,000. Noted Jan. 21.

Minn., Duluth—SCHOOL—C. A. Bronson, secy. Bd. Educ., 226 North 1st Ave., general contract 2 story, 71 x 125 ft., rein.-con. and brick addition, 1st St. and 1st Ave. E., to G. H. Lounsberry, 322 East Superior St., $179,915. Noted Mar. 18.

Tex., Denton—LIBRARY—College of Industrial Arts, c/o Superintendent, for Bradley Memorial Library, 2 story and sub-basement, to Hanger & Chambers, Denton, $121,680. Noted Aug. 20.

Tex., Ft. Worth—SCHOOL—Bd. Educ., c/o E. A. Corbett, chn. W. T. Waggoner Bldg., Carroll Peak School, 2 story and basement, 62 x 258 ft., brick, rein.-con. and steel, to Butcher & Sweeney, 806½ Taylor St., $138,456.

Calif., Glendale — CHURCH — First Church of Christ Science, general contract 2 story, 110 x 139 ft., brick, South Central Ave., to Meyer & Holler, Wright-Callendar Bldg., Los Angeles, $175,000.

Calif., Los Angeles — CHURCH — A. C. Martin, archt., Higgins Bldg., 3 story, 120 x 250 ft., rein.-con. and brick, 3rd and Detroit Sts., to Sumner-Sollitt Co., Delta Bldg., for Roman Catholic Archbishop of Los Angeles. $239,700. Noted Mar. 18.

Calif., Los Angeles — SCHOOL — Bd. Educ., general contract Wiggins Trade School, 2 story, 120 x 250 ft. and one 10 story, 97 x 115 ft., rein.-con., to [illegible] Warne, Rivers-Strong Bldg., $[illegible]. Noted Mar. 18.

Calif., San Francisco — SCHOOL — Bd. Pub. Wks., general contract, West Portal School, fireproof, Taraval St., to O. Monsen, 251 Kearny St., for City and San Francisco Co. $142,840. Noted Mar. 18.

Calif., Ventura — HIGH SCHOOL — Ventura Union High School Dist., 2 story, rein.-con., to C. P. Day Corp., Boston Bldg., Pasadena, $176,350. Noted Mar. 11.

Federal Government Work

Proposed Work

Mass., Boston—Pier Fenders—Emergency Fleet Corp., Terminal Dept., Wash., D. C., having plans prepared pier fenders, here.

D. C., Wash.—Hospital—U. S. Veterans Bureau, Arlington Bldg., having plans prepared reconstructing 6 buildings at Walter Reed Hospital. $2,000,000.

Bids Desired

Mass., Chelsea—Quarters—Spec. 5168—Apr. 28, by Bureau Yards & Docks, Navy Dept., Wash., D. C., 2 double quarters, concrete, brick, and steel, at U. S. Naval Hospital, here. L. E. Gregory, ch. Bureau; adv. E. N.-R. Apr. 8. Noted Mar. 11.

N. J., Dix—Reservoir—Apr. 15, by Quartermaster, Camp Dix, 75,000 gal. concrete reservoir, at Camp Dix; adv. E. N.-R. Apr. 8.

Pa., Phila.—Gate Buildings—Spec. 5196—Apr. 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., 2 gate buildings, at Navy Yard, here. L. E. Gregory, ch. of Bureau; adv. E. N.-R. Apr. 8.

D. C., Wash.—Remodeling—Apr. 22, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Courthouse, here.

D. C., Wash.—Power Plant—May 4, by U. S. Engineer Office, 1068 Navy Dept. Bldg., power plant for Dist. of Columbia water supply; adv. E. N.-R. Apr. 8.

Miss., Gulfport—Fill—Apr. 20, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., sand fill at U. S. Veterans Hospital, here.

Ky., Louisville—Wicket Irons, etc.—Apr. 21, by U. S. Engineers Office, Post Office Box 72, wicket irons, horses and props, for Dam 51, Ohio River; adv. E. N.-R. Apr. 8.

Nevada—Road—Apr. 21, by C. H. Sweetser, dist. engr. U. S. Bureau Roads Dept. Agriculture, 9 Main St., San Francisco, Calif., grading, etc., 9.68 mi. Austin-East Section Forest Road Project, here.

Idaho — Apr. 13, by B. J. Finch, dist. engr., 403 Kiesel Bldg., Ogden, Utah, improving Payette Highway, or McCall-New Meadows, Sect. 2, National Forest Road Project, in Idaho Natl. Forest, Adams Co., here.

Calif., San Francisco—Steel—Apr. 20, by L. I. Hewes, deputy ch. engr. Bureau Pub. Roads, U. S. Dept. Agriculture, 9 Main St., approximately 910,000 lb. structural steel, steel and iron castings, etc.; adv. E. N.-R. Apr. 8.

Bids Received

Mass., Lynn—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., Mar. 31, remodeling U. S. Post Office, here, from S. Pasquale, 8 Bartlett Pl., Boston, $14,950. Noted Mar. 11.

Pa., McKeesport — Remodeling — Treas. Dept. at office Supervising Archt., Wash., D. C., Apr. 1, remodeling U. S. Post Office, here, from Landes Constr. Co., Charlestown, W. Va., $5,400. Noted Mar. 18.

Ky., Louisville—Wicket Irons, etc.—U. S. Engineer Office, P. O. Box 72, Mar. 16, wicket irons, from Pittsburgh Trolley & Forge Co., 117 Water St., Pittsburgh, Pa., $10,340; and horses, props, etc., from Amer. Car & Fdry. Co., 4th and Missouri Sts., Jeffersonville, Ind., $22,950. Noted Mar. 4.

O., Lorain—Vestibule—Treas. Dept., at office Supervising Archt., Wash., D. C., Mar. 29, mail vestibule, etc., here, from W. A. Steane, Lorain, $3,960. Noted Mar. 11.

Wis., Milwaukee — Foundation Pier — Supt. Lighthouses, Mar. 31, from Vulcan Mfg. Co., 490 North Main St., Fond du Lac, 197,000 lb. reinforcing for foundation pier at Milwaukee North Breakwater, $2.50 per 100 lbs. straight, and $2.90 per 100 lb. bent. Noted Mar. 18.

Mo., St. Louis—Barges—U. S. Engineers Office, 428 Customhouse, Mar. 31, 20 small steel barges for use St. Louis Div., U. S. Eng. Corps., from Dravo Constr. Co., Neville Island, Pittsburgh, Pa., $49,600. Noted Mar. 11.

Federal Government Work (Continued)

Contracts Awarded

N. Y., Northport — Deep Well — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., well, 200 ft. deep, at proposed U. S. Veterans Hospital, here, to A. J. Connolly, Jr., 200 South 10th St., Newark, N. J., $3,000, etc. Noted Mar. 11.

O., Lima—Vestibule, etc.—Treas. Dept. at office Supervising Archt., Wash., D. C., vestibule, etc., here, to Green & Sawyer, Lima, $4,000. Noted Mar. 11.

Wis., Milwaukee—Cement—U. S. Engineers Office, Mar. 30, 4,800 bbl. Portland cement, to H. Scheele, 712 North 8th St., Sheboygan, $10,464. Noted Mar. 25.

Unclassified

Proposed Work

Playground — Brighton (Boston P. O.), **Mass.** — City, Schoolhouse Dept., Boston, plans improving Rogers Park Playground, here. $45,000. J. H. Mahoney, chn.

Lighting System—Jamaica Plain (Boston P. O.), **Mass.**—City, Dept. Pub. Wks., Boston, plans Great White Way lighting system along Green St., here, which is main thoroughfare between Dorchester, Roxbury and Brookline. To exceed $25,000. J. H. Sullivan, comr.

Bleachers — Roxbury (Boston P. O.), **Mass.** — City, Park Dept., 33 Beacon St., Boston, J. B. Shea, comr., plans concrete bleachers, Randolf St. Playground, here. $75,000. Private plans.

Coal Handling Plant—Somerville (Boston P. O.), **Mass.**—Wellington Coal Co., E. H. Wellington, pres., 211 Bridge St., East Cambridge, plans coal handling plant, here. $40,000 or more. Private plans.

Transmission Lines, etc.—North Carolina and South Carolina — Carolina Power & Light Co., Raleigh, P. A. Tillery, vice-pres. and genl. mgr., plans extensive developments, incl. large mileage transmission lines, substations, etc., here.

Power Line—North Carolina—Virginia Electric & Power Co., Richmond, Va., plans power line from Roanoke Rapids, to Rocky Mount, here, and probably several other neighboring cities and towns. L. C. Bradley, Richmond, Va., pres.

Fire Alarm System—Fort Myers, Fla.—Voted $125,000 bonds, improving fire alarm system, etc.

Playgrounds—Fort Myers, Fla.—Voted $225,000 bonds, playgrounds and equipment for same.

Transmission Lines, etc. — Tennessee — Southern Cities Power Co., Chattanooga, plans transmission lines and electric power plants, Waynesboro, Savannah, Clifton, Collinwood and Chattanooga. To exceed $25,000.

Electric Transmission Line—Tennessee—Tennessee Electric Power Co., 540 Market St., Chattanooga, made preliminary plans 45 mi. 33,000 volt electric high line from Sparta to Monterey via Algood; and 30 mi. line from Sparta to Crossville and a distribution system at Crossville. $45,000 each. L. C. Parks, Alberta Apts., Chattanooga, engr.

Bus Terminal—Knoxville, Tenn.—Southern Motor Coach Co. plans modern bus terminal, probably concrete and steel. $50,000. Engineer and architect not selected.

Boiler House—Columbus, O.—See "Buildings—Educational, Religious.'

Golf Course — Janesville, Wis. — Janesville Country Club, Magnolia Ave., plans golf course, here. $30,000. Engineer not selected.

Athletic Field, Stadium, etc.—St. Louis, Mo.—St. Louis University, Grand and West Pine Blvds., purchased 11 acre tract and plans athletic field stadium, running track, etc., Oakland St. between Mackland Ave. and River Des Peres.

Swimming Pool — St. Louis, Mo. — See "Buildings—Commercial."

Transmission Line—Texas—Crystal City Electric Light & Ice Co., plans 30 mi. line from Crystal City to Spur. $30,000. Private plans.

Stone Plant, etc.—Callado, Tex.—Mitholic Co., A. F. Fisher, soon takes bids 500 ton stone plant and 6 mi. railway line. $200,000. Private plans.

Natatorium — Beverly Hills, Calif. — Beverly Hills Sulphur Bath Co., having plans prepared by B. J. Bloser, Citizens Natl. Bank Bldg., Los Angeles, 1 and part 2 story, 100 x 190 ft. natatorium incl. 65 x 170 ft. tile lined swimming pool, here. To exceed $40,000.

Police Alarm System—Glendale, Calif.—Plans election $100,000 bonds, police and fire alarm system.

Lighting System—Maywood, Calif.—See "Streets and Roads."

Park, etc. — Santa Ana, Calif. — Plans election $250,000 bonds, park and equipment.

Bids Desired

Lighting System—Oakhurst, N. J.—Apr. 15, by Ocean Twp., Mechanics Hall, G. E. Van Note, chn., ornamental lighting system on Edgmont Ave., at Lock Arbour, here. J. W. Seaman, 210 Bway., Long Branch, civil engr.; adv. E. N.-R. Apr. 8.

Retaining Wall—Indianapolis, Ind.—See "Streets and Roads."

Gas Holder—Beaver Dam, Wis.—Wisconsin Power & Light Co., 16 North Carroll St., Madison, taking bids gas holder, 200,000 cu.ft. capacity. E. J. Kallevang, c/o owner, engr.

Culverts — Cedar Rapids, Ia. — See "Bridges."

Culverts — Marshalltown, Ia. — See "Bridges."

Culverts—Nevada, Ia.—See "Bridges."

Silos—St. Louis, Mo.—See "Contracts Awarded."

Storage Tanks—Los Angeles, Calif.—See "Contracts Awarded."

Tunnel — Oakland, Calif. — May 14, by East Bay Municipal Utility Dist., Ray Bldg., 1924 Bway., constructing Claremont tunnel, portion of East Bay Aqueduct of Modelumne River Project. J. H. Kimball, secy.; adv. E. N.-R. Apr. 8. Noted Mar. 25.

Transmission Line—L'Ile d'Orleans, Que.—See "Contracts Awarded."

Elevators — Regina, Sask. — Apr. 15, by Saskatchewan Pool Elevators, Ltd., Sherwod Bldg., constructing thirty 32,000 bu. capacity elevators. $400,000.

Bids Received

Swimming Pool — South Lawrence (mail Lawrence) **Mass.** — City of Lawrence, J. M. Flanagan, chn., swimming pool, here, from W. J. Delaney, 283 Essex St., $53,522. Engrs. est. $55,000. Noted Mar. 25.

Signal Tower—New York—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, Apr. 5, interlocking signal tower at New Utrecht Ave. and 62nd St., Brooklyn, also sewer and water connections in various locations of Rapid Transit R.R. in Boros Brooklyn, Manhattan, Bronx and Queens, from Ascher Eng. & Constr. Co., 1757 Bway., New York City, $18,295. Noted Mar. 25.

Stable, etc. — Brooklyn, N. Y. — Armory Bd., J. B. Trainer, secy., City Hall, New York City, Apr. 1, additional stables and storage accomodation at armory of 101st Cavalry, 1579 Bedford Ave., here, from Eastern Constr. Co., 110 West 40th St., New York City, $95,900. Noted Mar. 25.

Contracts Awarded

Subway—Buffalo, N. Y.—New York Central R.R. Co., 466 Lexington Ave., New York City, subway extension in William St., here, to J. Johnson Co., 765 Abbott Rd., $125,000.

Tunnel—Pattenburg, N. J.—Lehigh Valley R.R. Co., 143 Liberty St., New York City, 2 track tunnel, here, to Bates & Rogers Constr. Co., 37 West Van Buren St., Chicago, Ill. Engrs. est. $1,500,000.

Athletic Track—Alexandria, La.—Constructing athletic cinder track, also roadway, parkway, sidewalks grading grounds, etc., at Bolton High School, to Caldwell Bros., 816 Howard St., New Orleans, $37,062; tile drainage and laying water pipe, to Brasheur, Alexandria, $7,000.

Signals—Mississippi and Tennessee—Mobile & Ohio R.R. Co., Fullerton Bldg., Kansas City, Mo., 83 a.c. automatic color light signals between Corinth, Miss., and Jackson, Tenn., to General Railway Signal Co., Ry. Exch. Bldg., St. Louis, Mo. Engrs. est. $200,000.

Silo and Shop — Detroit, Mich. — Dept. Pub. Wks., 44 ft. diam. silo, 87½ ft. high, and 1 story, 37 x 37 ft. shop, at asphalt plant, Western Yard, Lynch and French Rds., to J. L. Beecher Co., 8014 Grand River Ave., $25,065. Noted Mar. 11.

Cinder, Coal and Sand Plant—Peoria, Ill.—Peoria & Pekin Union Ry. Co., Peoria, E. I. Rogers, ch. engr., one 500 ton capacity rein.-con. 3 track Simplex automatic electrically operated roller skip hoist type coal and sanding plant, and 2 N & W type electric cinder plants with selective control, etc. for handling cinders from 6 locomotives at one time, to Roberts & Schaefer Co., Wrigley Bldg., Chicago.

Silos — Milwaukee, Wis. — Manitowoc Portland Cement Co., Manitowoc, two 26 ft. diam. x 90 ft. high, rein.-con. cement storage silos, 16th Ave. and Burnham Canal, to H. Schmidt & Son, 14 Burleigh St. $40,000.

Transmission Line — Missouri — Missouri Edison Co., Louisiana, approximately 80 mi. power transmission lines radiating from Louisiana, to Connor Constr. Co., 348 Ohio Ave., Wichita, Kan.

Silos—St. Louis, Mo.—Donk Bros. Coal & Coke Co., 314 North 4th St., will build twenty-two rein.-con. silos for sand and gravel storage; also 3 story, 45 x 170 ft., brick and concrete office building, by day labor. $75,000. Private plans.

Penstocks etc. — California — Feather River Power Co., Hobart Bldg., San Francisco 3,500 tons steel penstocks in connection with Bucks Creek power project on Feather River, Plumas Co., to Western Pipe & Steel Co., 444 Market St., San Francisco, approximately $750,000; also equipment for power plant and substation for above, to General Electric Co., Rialto Bldg., San Francisco, and Pelton Water Wheel Co., 2919 19th St., San Francisco, approximately $1,000,000.

Storage Tanks — Los Angeles, Calif. — Union Oil Co. will build 4 steel oil storage tanks, 1501 Wilmington and San Pedro Sts., by day labor. $140,000.

Transmission Line—L'Ile d'Orleans, Que.—Cie Montmorency Electric Ltd., Quebec, will build 10 mi. electric transmission line, here, by own forces. $125,000.

Swimming Pool—Honolulu, T. H.—See "Buildings—Commercial."

Materials

Bids Desired

Asphalt, etc.—Newton, N. J.—Apr. 20, by Bd. Freeholders Sussex Co., asphalt, tar, gravel, etc., for various roads. H. Snook, Newton, co. engr.; adv. E. N.-R. Apr. 8.

Timber—New Orleans, La.—Apr. 13, by Bd. Port Comrs., 200 New Court House Bldg., approximately 985,000 ft. creosoted timber. T. S. McChesney, assistant genl. mgr.

Pipe, etc. — Crowley, La. — Apr. 13, by Police Jury Acadia Parish, 5 cars 12- to 14-in. concrete pipe, delivered one each, here and at Rayne, Church Point, Iota, and Morse; 4 cars treated creosoted lumber, 2 x 12, 3 x8 and 8 x 8 ft., 20 ft. long, 2 x 10, 12 to 20-ft. long, 2 x 6, 14 ft. long, piling, etc. delivered here and at Rayne, Church Point and Iota, J. E. Doigle, clk.

Cement—Indianapolis, Ind.—State Hy. Dept., J. D. Williams, dir., State House, taking bids 1,000,000 bbl. cement. $2,400,000.

Road Oil—Williamsfield, Ill.—Truro Twp. taking bids furnishing and spreading 10,000 gal. road oil on roads. W. H. Machin, highway comr.

Road Oil — Williamsfield, Ill. — Taking bids furnishing and spreading 2 car loads road oil on various streets. W. Cotton, mayor.

Binder Stone or Gravel — Minneapolis, Minn.—Apr. 12, by F. S. Gram, city purch. agt., 4,110 cu.yd. binder stone or gravel. $6,200. N. W. Elsberg, city engr.

Road Oil—Minneapolis, Minn.—Apr. 19, by F. S. Gram, city purch. agt., 2,500,000 gal. road oil for Dept. Engineering. N. W. Elsberg, city engr. Noted Mar. 11.

Contracts Awarded

Conduit—Baltimore, Md.—Bd. Awards, virt. clay conduit for Bureau Mechanical-Electrical Service for 1926, to Graybar Electric Co., 106 South St., $0.104 per ft. Noted Feb. 25.

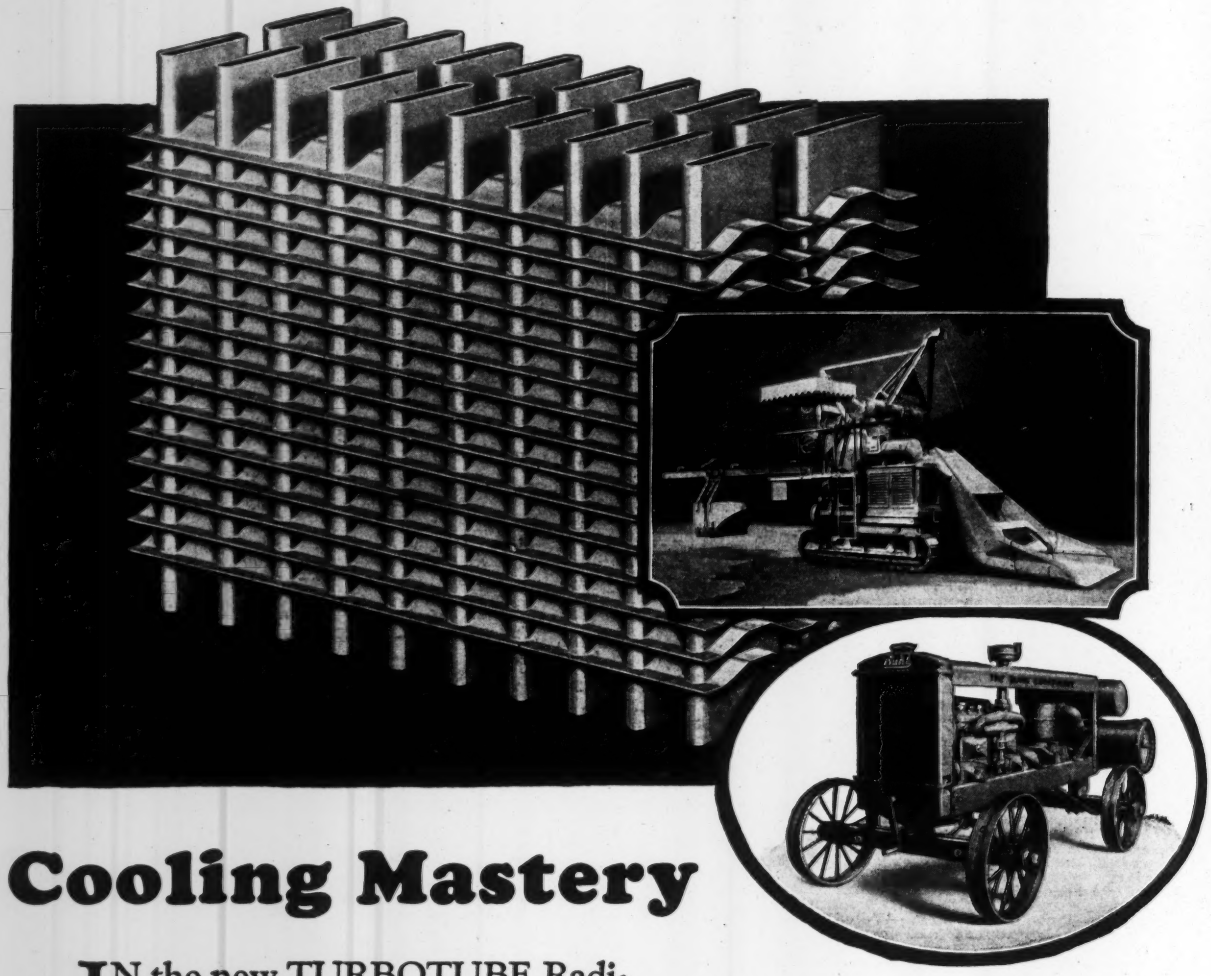
Steel Pipe — Chicago, Ill. — Dept. Pub. Wks., Mar. 25, Room 406, City Hall, 4,800 ft. 18 in. steel pipe in 20 ft. lengths, by truck, to Frank-Orleans St. Bridge, from Chicago Metal Mfg. Co., 3724 South Rockwell St., at $25.50.

Road Oil, etc.—Milwaukee, Wis.—Central Bd. Purchases, W. J. Nicholson, ch. buyer, Specifications 1 and 2, to Texas Co., 10 South La Salle St., Chicago, Ill., $18,300; and Specifications 3, 4 and 5, to Amer. Tar Products Co., 208 South La Salle St., Chicago, Ill., $87,430. Noted Mar. 11.

Reinforcing—Minneapolis, Minn.—F. S. Gram, city purch. agt., 385 tons reinforcing, to C. A. P. Turner, 300 Builders Exch. Bldg., $18,126.

Road Oil—St. Louis, Mo.—G. J. Dietz, City Hall, supply comr., 250,000 gal. road oil, to R. J. Brown Petroleum Co., Boatmens Bank Bldg., at $4.64 per gal.; Mexican oil asphalt, to Standard Oil Co., 314 North Jefferson St., $19.37 per ton.

See proposal advertising on page 138, Advertising Section



Cooling Mastery

IN the new TURBOTUBE Radiator, Modine presents a cooling unit that is master of the job it has to do.

Free, unrestricted water circulation, high cooling capacity, and light weight are combined with new limits of strength in the design and construction of TURBOTUBE.

MODINE MANUFACTURING CO.
"Specializing in the Special Problems of Radiation"
RACINE, WISCONSIN

Upper illustration shows Model 26-E Multi-Foote Road Paver, with Modine Turbotube cooling unit.

The lower illustration is of the Buhl Air Compressor — another heavy duty machine with Turbotube.

1 to 1000 H. P.— Any Type — Tubular or Cellular (Spirex)—Sectional — Conventional Cast — Sheet Metal, or if preferred only cores or sections.

MODINE RADIATORS

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Office and loft, New York, N. Y., A. E. Lefcourt plans three 23 story buildings, $7,000,000, $8,000,000 and $10,000,000, respectively.

Office, New York, N. Y., M. Greenstein plans building, $15,000,000.

Paving, Chicago, Ill., Cook Co. plans 192 mi. paving, $5,000,000.

Irrigation work, Eagle Pass, Tex., Maverick Co. Water Impvt. Dist. plans irrigation work, $3,000,000.

Office, Chicago, Ill., Illinois Society of Architects plans office building, $3,000,000.

Park extension, San Francisco, Calif. plans park extension, $3,000,000.

Theater, store and office, San Jose, Calif., J. A. Kidward having preliminary plans prepared, $2,500,000.

Auditorium, Worcester, Mass., city plans building, $2,500,000.

Office, Philadelphia, Pa., Philadelphia Electric Co having plans prepared, $2,000,000.

Road Improvement, Newton, Ia., Jasper Co. plans bond election, $1,500,000.

Club, San Francisco, Calif., Olympic Club having plans prepared, $1,500,000.

Hospital, Indianapolis, Ind., Indiana Christian Hospital had plans prepared, $1,500,000.

Bids Wanted

Subway, Toronto, Ont., April 21, J. R. W. Ambrose, ch. engr. Toronto Terminals Ry. Co., $2,500,000.

Hospital, Iowa City, Ia., May 25 by W. H. Genmill, Secy. State Bd. Educ., $2,000,000.

School, Philadelphia, Pa., Apr. 20, J. T. Windrim, archt. for University of Pennsylvania, $1,500,000.

Hotel, Cedar Rapids, Iowa, N. B. Beidler, archt., $1,250,000.

City Hall, Columbus, O., May 18, W. H. Duffy, dir. Pub. Service, $1,000,000.

Apartment, Buffalo, N. Y., Carr & Andrews soon takes bids, $1,000,000.

Office, Chicago, Ill., Hyland & Corse, takes bids about May 1, $1,000,000.

Contracts

High School, Chicago, Ill., Bd. Educ., J. E. Byres, bus. mgr. to Paschen Bros., $4,000,000.

Apartment, Chicago, Ill., M. Callner will build. Work done by separate contract, $3,250,000.

Hotel, Albany, N. Y., Equitable Life Assurance Society to E. F. Carlson Co., $2,000,000.

Garage and store, Boston, Mass., Motor Mart Garage to Chase & Gilbert, $2,000,000.

Wharves and piers, Galveston, Tex., Galveston Wharf Co. by day labor, $1,500,000.

Classified Index of Bids Wanted

Waterworks

Bids close		See Eng. News-Record
Apr. 19	Ebensburg, Pa.	Apr. 1
Apr. 19	St. Lambert, Que.	Apr. 1
Apr. 20	Key West, Fla.	Apr. 8
Apr. 20	Saltsburg, Pa.	Apr. 8
Apr. 20	McCormick, N. C.	Apr. 15
Apr. 20	Cincinnati, O.	Apr. 15
Apr. 20	Newton (Ind. br. Boston), Mass.	Apr. 15
Apr. 20	Phila., Pa.	Apr. 15
Apr. 21	Agurs, La.	Apr. 15
Apr. 22	Kingston, N. Y. Adv. Apr. 8 and 15.	Apr. 8
Apr. 22	Haledon (mail Paterson), N. J. Adv. Apr. 15.	Apr. 15
Apr. 24	Falmouth, Mass. Adv. Apr. 15.	Apr. 15
Apr. 26	Huntingdon, Pa. Adv. Apr. 15.	Apr. 15
Apr. 26	Norwalk, Conn. Adv. Apr. 8 and 15.	Apr. 8
Apr. 28	Bath, N. Y.	Apr. 1
Apr. 29	Nyack, N. Y.	Apr. 8
Apr. 30	Hawthorne (Ind. br. Paterson), N. J.	Apr. 15
Apr. 30	New Market, Va.	Mar. 25
May 11	Perry, N. Y.	Apr. 15

Sewers

Apr. 16	St. George, N. Y.	Apr. 15
Apr. 19	Okemah, Okla.	Apr. 8
Apr. 19	Hasbrouck Heights (Ind. br. Hackensack), N. J.	Apr. 1
Apr. 20	Corsicana, Tex.	Apr. 8
Apr. 20	Lakeland, Fla.	Apr. 1
Apr. 20	Muskegon, Mich.	Apr. 8
Apr. 20	Cincinnati, O.	Apr. 15
Apr. 20	Toronto, Ont.	Apr. 15
Apr. 21	Long Island City, N. Y.	Apr. 15
Apr. 21	Brooklyn, N. Y.	Apr. 15
Apr. 21	Cleveland, O.	Apr. 15
Apr. 21	Baltimore, Md.	Apr. 15
Apr. 21	Boston, Mass.	Apr. 15
Apr. 21	Phila., Pa.	Apr. 15
Apr. 21	San Francisco, Calif.	Apr. 8
Apr. 21	Antigo, Wis.	Mar. 25
Apr. 21	Grand Rapids, Mich.	Apr. 1
Apr. 22	Boston, Mass.	Apr. 15
Apr. 23	Oil City, Pa.	Apr. 15
Apr. 29	North Chattanooga (br. Chattanooga), Tenn.	Apr. 1
May 3	South Portland, Me. Adv. Apr. 8 and 15.	Apr. 8
May 3	Kingston, Pa. Adv. Apr. 15.	Apr. 15
May 6	Bloomington, Ill.	Apr. 8
Apr. 16	Cincinnati, O.	Mar. 25
Apr. 16	Ohio	Apr. 8
Apr. 19	Seneca, Kan.	Apr. 8
Apr. 20	Amherst, Mass.	Apr. 8

Bridges

Bids close		See Eng. News-Record
Apr. 21	Eldorado, Kan.	Apr. 1
Apr. 21	Maine	Apr. 15
Apr. 22	North Dakota	Mar. 18
Apr. 23	Wisconsin	Apr. 15
Apr. 26	California	Apr. 8
Apr. 27	South Dakota	Apr. 15
Apr. 28	Rhode Island	Apr. 15
Apr. 29	Louisiana	Apr. 8
Apr. 30	Olathe, Kan.	Apr. 8
Apr. 30	Duluth, Minn.	Mar. 25
May 1	Val Morin, Que.	Apr. 8
May 3	Morgantown, W. Va. Adv. Apr. 8 and 15.	Apr. 8
May 4	Maine	Apr. 8
May 7	Dayton, O.	Apr. 15
May 10	Jacksonville, Fla. Adv. Apr. 15.	Apr. 15
May 11	Louisiana	Apr. 15
May 15	Anderson, Ind.	Apr. 8
May 19	Minneapolis, Minn. Adv. Apr. 8 and 15.	Apr. 8

Dams

Apr. 16	Livonia, N. Y.	Mar. 25
Apr. 29	Norwich, Conn. Adv. Apr. 15.	Apr. 15

Excavation, Drainage, Irrigation, Levees, River and Harbor

Apr. 19	Cape Girardeau, Mo.	Apr. 8
Apr. 20	Milwaukee, Wis.	Apr. 15
Apr. 23	Albany, N. Y. Adv. Apr. 8 and 15.	Apr. 8
Apr. 27	New York Adv. Apr. 1 to 15.	Apr. 1
Apr. 29	Fire Island (mail Babylon), N. Y. Adv. Apr. 15.	Apr. 15

Streets and Roads

Apr. 16	New York, N. Y.	Apr. 15
Apr. 17	Mt. Clemens, Mich.	Apr. 15
Apr. 17	Oconomowoc, Wis.	Apr. 1
Apr. 17	Burlington, Wis.	Apr. 8
Apr. 19	Minneapolis, Minn.	Apr. 1
Apr. 19	Hannibal, Mo.	Apr. 8
Apr. 19	Dunbar, W. Va. Adv. Apr. 8 and 15.	Apr. 8
Apr. 19	Hastings, Minn.	Apr. 8
Apr. 19	Ionia, Mich.	Apr. 15
Apr. 19	New York, N. Y.	Apr. 15
Apr. 19	Westmont, Pa.	Apr. 15
Apr. 19	Arizona	Apr. 15
Apr. 19	Peoria, Ill.	Apr. 15
Apr. 19	Kewanee, Ill.	Apr. 15
Apr. 20	Hartford, Conn.	Apr. 15
Apr. 20	Roxbury (Boston P. O.), Mass.	Apr. 15

Bids close		See Eng. News-Record
Apr. 20	St. George, N. Y.	Apr. 15
Apr. 20	Omaha, Neb.	Apr. 15
Apr. 20	Grand Rapids, Mich.	Apr. 15
Apr. 20	Massachusetts	Apr. 15
Apr. 20	Sibley, Ia.	Apr. 15
Apr. 20	Storm Lake, Ia.	Apr. 15
Apr. 20	Sioux City, Ia.	Apr. 15
Apr. 20	Walthall, Miss.	Apr. 15
Apr. 20	Massachusetts	Apr. 8
Apr. 20	Minnesota	Apr. 8
Apr. 20	North Dakota	Apr. 8
Apr. 20	Maryland Adv. Apr. 8 and 15.	Apr. 8
Apr. 20	West Virginia	Apr. 1
Apr. 20	Pennsylvania	Apr. 1
Apr. 20	Birmingham, Ala.	Mar. 11
Apr. 20	New York Adv. Apr. 1 to 15.	Apr. 1
Apr. 20	Vermont	Apr. 15
Apr. 20	New Port Richey, Fla.	Apr. 15
Apr. 21	Freehold, N. J. Adv. Apr. 1 to 15.	Apr. 1
Apr. 21	Greensburg, Pa.	Apr. 8
Apr. 21	North Dakota	Apr. 8
Apr. 21	Cleveland, O.	Apr. 15
Apr. 21	Rhode Island Adv. Apr. 15.	Apr. 15
Apr. 21	Nevada	Apr. 15
Apr. 21	Baltimore, Md.	Apr. 15
Apr. 21	Boone, Ia.	Apr. 15
Apr. 21	Wisconsin	Apr. 15
Apr. 22	Kansas City, Mo.	Apr. 15
Apr. 22	Algona, Ia.	Apr. 15
Apr. 22	Flora, Ill.	Apr. 15
Apr. 22	Dallas, Tex.	Apr. 15
Apr. 22	Hillsdale, Mich.	Apr. 15
Apr. 22	North Dakota	Apr. 8
Apr. 23	North Dakota	Apr. 8
Apr. 23	Cameron, Tex.	Apr. 15
Apr. 23	Chehalis, Wash.	Apr. 15
Apr. 24	Lewisville, O.	Apr. 15
Apr. 26	California	Apr. 15
Apr. 26	California	Apr. 8
Apr. 26	Indianapolis, Ind.	Apr. 8
Apr. 26	Olympia, Wash.	Apr. 8
Apr. 26	San Carlos, Calif.	Apr. 15
Apr. 26	Lawrenceville, Ill.	Apr. 15
Apr. 26	Arizona	Apr. 15
Apr. 26	Seattle, Wash.	Apr. 15
Apr. 27	Newton, N. J. Adv. Apr. 8 and 15.	Apr. 8
Apr. 27	Hondo, Tex.	Apr. 8
Apr. 27	Louisiana	Apr. 8
Apr. 27	South Dakota	Apr. 15
Apr. 27	Hondo, Tex.	Apr. 15
Apr. 27	North Dakota	Apr. 15
Apr. 27	Washington	Apr. 15
Apr. 27	Duluth, Minn.	Apr. 15
Apr. 28	North Dakota	Apr. 15
Apr. 28	Delaware Adv. Apr. 15.	Apr. 15
Apr. 28	Florida	Apr. 8

See proposal advertising on page 128, Advertising Section

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Laying 20-in. c.i. bell and spigot water main across Schuylkill River with LEADITE joints.

Speed— Pipe Laying

Thousands of miles of cast iron water mains have been laid with LEADITE by large cities, towns, villages, railroads, mines, and industrial plants.

These pipe lines are laid under paved streets, under and over bridges, under railroad tracks, across streams, thru open country, in filter galleries—high and low pressures—under all conditions of water works construction.

This is the way some LEADITE users lay pipe:

1710 ft. 6 in. pipe laid in one day.
1665 ft. 6 in. pipe laid in 7½ hrs. with 6 men.
91 lengths 20 in. pipe laid in one day.
15 to 19 lengths 48 in. pipe laid in one day—laid one length in 7 minutes.
3860 ft. 6 in. and 8 in. pipe laid in 9 hrs. with 2 gangs.

You can do this.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking Material for c.i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids close — *See Eng. News-Record*

Apr. 28 Uvalde, Tex. .....Apr. 8
Apr. 28 Dickinson, N. D. .....Apr. 8
Apr. 28 Mobile, Ala. .....Apr. 1
Adv. Apr. 1 to 15.
Apr. 28 Shelby, Miss. .....Apr. 15
Apr. 29 North Dakota .....Apr. 15
Apr. 29 Texas .....Apr. 15
Apr. 30 Manhattan, Kan. .....Apr. 15
Apr. 30 Missouri .....Apr. 15
Apr. 30 North Dakota .....Apr. 15
Apr. 30 West Virginia .....Apr. 1
May 1 Birmingham, Ala. .....Mar. 25
May 1 Florence, Ala. .....Apr. 1
May 1 Marion, O. .....Apr. 15
May 3 Pryor, Ill. .....Apr. 15
Adv. Apr. 15.
May 3 New Jersey .....Apr. 15
Adv. Apr. 15.
May 4 North Dakota .....Apr. 15
May 5 North Dakota .....Apr. 15
May 5 Belvidere, N. J. .....Apr. 15
May 6 New Brunswick, N. J. .....Apr. 15
Adv. Apr. 15.
May 6 North Dakota .....Apr. 15
May 6 Pennsylvania .....Apr. 15
Adv. Apr. 15.
May 7 North Dakota .....Apr. 15
May 7 Pennsylvania .....Apr. 15
Adv. Apr. 15.
May 15 Anderson, Ind. .....Apr. 8

Buildings—Commercial

Apr. 16 Wallingford, Conn. .....Apr. 15
Apr. 17 Phila., Pa. .....Apr. 15
Apr. 19 Indianapolis, Ind. .....Apr. 15
Apr. 19 Akron, O. .....Apr. 15
Apr. 20 San Benito, Tex. .....Apr. 15
Apr. 21 Cape May, N. J. .....Apr. 15
Apr. 22 Fond du Lac, Wis. .....Apr. 15
Apr. 27 Gulfport, Miss. .....Apr. 15
Apr. 30 Easton, Pa. .....Apr. 15
Apr. 30 Pittsburgh, Pa. .....Apr. 15
May 1 Birmingham, Ala. .....Apr. 1
May 4 Iowa City, Ia. .....Apr. 1
May 5 Marysville O. .....Apr. 15
May 6 Thiells, N. Y. .....Apr. 8
Adv. Apr. 8 and 15.
May 20 Ohio .....Apr. 15
May 25 Iowa City, Ia. .....Apr. 15

Buildings—Industrial

Apr. 16 Holyoke, Mass. .....Apr. 15
Apr. 26 Toronto, Ont. .....Apr. 15
Apr. 26 Two Rivers, Wis. .....Apr. 15
May 1 Canton, O. .....Apr. 15

Buildings—Educational, Religious

Apr. 16 Jeffersonville, Pa. .....Apr. 15
Apr. 17 Cleveland, O. .....Apr. 1

Bids close — *See Eng. News-Record*

Apr. 19 Montrose, N. Y. .....Apr. 8
Apr. 19 Wynnewood, Pa. .....Apr. 15
Apr. 19 Cape Girardeau, Mo. .....Apr. 15
Apr. 20 Kansas City, Mo. .....Apr. 15
Apr. 20 Des Moines, Ia. .....Apr. 8
Apr. 20 Lawrence, Kan. .....Apr. 8
Apr. 20 Phila., Pa. .....Apr. 15
Apr. 21 Richmond Hill (Ind. br. Jamaica), N. Y. .....Apr. 8
Apr. 21 Los Angeles, Calif. .....Apr. 15
Apr. 21 Baltimore, Md. .....Apr. 15
Apr. 22 Pelham (Ind. br. New York), N. Y. .....Apr. 8
Apr. 22 Greenville, O. .....Apr. 8
Apr. 22 Abbeville, La. .....Apr. 8
Apr. 23 Minneapolis, Minn. .....Apr. 8
Apr. 26 Union, N. J. .....Apr. 15
Apr. 27 New York, N. Y. .....Apr. 8
Apr. 28 Corning, N. Y. .....Apr. 8
Apr. 28 Bowling Green, O. .....Apr. 1
Apr. 28 Fayetteville, Ark. .....Apr. 15
May 3 Corning, N. Y. .....Apr. 15

Federal Government Work

Apr. 16 Mezzanine, etc.—Syracuse, N. Y. .....Apr. 1
Apr. 19 Extension—Macomb, Ill. ...Apr. 1
Apr. 20 Turbine, etc.—Nebraska and Wyoming .....Mar 18
Apr. 20 Addition—Newark, N. Y. ..Apr. 1
Apr. 20 Cable—Buffalo, N. Y. .....Apr. 1
Apr. 20 Fill—Gulfport, Miss. .....Apr. 8
Apr. 20 Steel—San Francisco, Calif. .....Apr. 8
Apr. 21 Wicket Irons—Louisville, Ky. .....Apr. 8
Adv. Apr. 8 and 15.
Apr. 21 Road—Nevada .....Apr. 8
Apr. 21 Hospital—Wash., D. C. ...Mar. 25
Adv. Mar. 25, Apr. 1 and 15.
Apr. 21 Extension—Oklahoma City, Okla. .....Apr. 1
Apr. 21 Storage—Pensacola, Fla. ..Apr. 1
Apr. 22 Granite—Wash., D. C. ....Mar. 25
Adv. Mar. 25 to Apr. 15.
Apr. 22 Dredging—Ft. Mifflin (mail Essington), Pa. .....Apr. 1
Apr. 22 Remodeling—Wash., D. C. .Apr. 8
Apr. 22 Brush and Poles—Memphis, Tenn. .....Apr. 1
Apr. 22 Fenders—Norfolk, Va. ....Apr. 15
Apr. 23 Paving—Phila., Pa. .....Apr. 15
Apr. 23 Masts—Panama, C. Z. ....Apr. 15
Apr. 23 Gate Buildings—Phila., Pa. Apr. 8
Adv. Apr. 8 and 15.
Apr. 26 Road—Arizona .....Apr. 15
Apr. 27 Recreation, etc. — Pennsylvania .....Apr. 1
Adv. Mar. 25, Apr. 1 and 15.

Bids close — *See Eng. News-Record*

Apr. 28 Catamarans—Norfolk, Va. .Apr. 1
Adv. Apr. 1 and 15.
Apr. 28 Quarters—Wash., D. C. ....Apr. 1
Apr. 28 Quarters—Chelsea, Mass. ..Apr. 8
Adv. Apr. 8 and 15.
Apr. 29 Excavation, etc.—Easton, Wash. .....Apr. 1
Apr. 29 Additions—Astoria, Ore. ...Apr. 15
Apr. 30 Cranes—Wash., D. C. .....Apr. 1
Adv. Apr. 1 to 15.
May 4 Power Plant—Wash., D. C. Apr. 8
Adv. Apr. 8 and 15.
May 5 Dredging—South Boston (sta. Boston), Mass. .....Mar. 25
May 11 Gate Chambers, etc.—Wash., D. C. .....Apr. 15
Adv. Apr. 15.
May 14 Pipe Line—Wash., D. C. ...Apr. 15
Adv. Apr. 15.
May 18 Recreation—Augusta, Ga. .Apr. 15.
Adv. Apr. 15.

Unclassified

Apr. 20 Unloader—New Orleans, La. .....Mar. 25
Apr. 21 Subway—Toronto, Ont. .....Apr. 15
Apr. 21 Pier—Phila., Pa. .....Apr. 15
Apr. 23 Scale Pit, etc.—New York, N. Y. .....Apr. 15
May 3 Culvert—New Rochelle, N. Y. .....Apr. 15
Adv. Apr. 15.
May 5 Tunnel—San Francisco, Calif. .....Apr. 1
Adv. Apr. 1 to 15.
May 14 Tunnel—Oakland, Calif. ...Apr. 8
Adv. Apr. 8 and 15.
May 18 Signal System—Buffalo, N. Y. .....Apr. 1

Materials

Apr. 19 Road Oil—Minneapolis, Minn. .....Apr. 8
Apr. 19 Road Oil—St. Paul, Minn. .Apr. 15
Apr. 19 Sand and Gravel—Minneapolis, Minn. .....Apr. 15
Apr. 20 Sewer Bricks — Boston, Mass. .....Apr. 15
Apr. 20 Asphalt, etc.—Newton, N. J. .....Apr. 8
Adv. Apr. 8 and 15.
Apr. 20 Road Signs—Iowa .....Apr. 1
Apr. 22 Pipe, etc.—Lewistown, Pa. .Apr. 15
Apr. 23 Lumber, etc.—New York, N. Y. .....Apr. 15
Apr. 30 Road Oil—Nashville, Tenn. .....Mar. 25

News of New Work

Waterworks

Proposed Work

N. J., Trenton—Plans 3 m.g. centrifugal pump with 2 gas auxiliary engines, at Pennington Ave. Water Station. A. Bugbee, City Hall, engr.

Md., Trappe — Town Comrs. retained Kastenhuber & Anderson, civil engrs. and survs., Easton, to prepare preliminary estimate of cost for waterworks.

Tenn., Livingston — Making preliminary plans waterworks. To exceed $15,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, consult. engrs.

Mich., Detroit—W. C. Piper Co., 206 East Grand River, making plans 3 mi. 6 and 8 in. c.i. mains, etc. in vicinity of Eight Mile, Kern and Kelly Rds. A. D. Van Der Berg, 206 East Grand Blvd., engr.

Mich., Melvindale (Dearborn P. O.) — Made plans extending 13,170 ft. 16 in. and 2,000 ft. 8 in. c.i. mains, etc. in Oakwood Blvd. Dists. 12, 13 and 14. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Kan., Osawatomie — Election in April $55,000 bonds, waterworks and light power plant improvements. Burns & McDonnell, 461 Interstate Bldg., Kansas City, Mo., engrs.

Mo., St. Louis—See "Unclassified."

Mo., Washington—Making plans improving waterworks, pumping station with new motor driven centrifugal pumps, flow meters, etc. W. S. Merkle, 414 North 12th St., St. Louis, engrs.

Ark., Palestine—Made preliminary plans new waterworks. $20,000. A. G. Humphreys, mayor. Engineer not selected.

Texas—See "Sewers."

Tex., La Feria — Making plans waterworks. $20,000. Agar & Gentry, San Benito, engrs.

Tex., Olney—Plans waterworks improvements, mains, pipes, etc. $15,000. Montgomery & Ward, 545 Harvey-Snider Bldg., Wichita Falls, engrs.

Okla., Dawson—Made plans waterworks improvements. $24,000 bonds voted. Hughes Eng. Co., 205 Cole Bldg., Tulsa, engrs.

Okla., Enid—Election Apr. 20, $215,000 bonds, waterworks and $17,500 bonds, sewer extensions. F. C. McGruder, Enid, engr. Noted Oct. 1.

Ont., Ridgeway — Council plans waterworks. $60,000. M. S. Pound, City Hall, engr.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Bids Desired

Massachusetts — Cities of Danvers and Middletown taking bids mains between both cities. $15,000. Private plans.

Mass., Falmouth—Apr. 24, at office Water Comrs., pipe, valves, hydrants, special and standard fittings, etc., f.o.b. cars Falmouth or West Falmouth. Richardson & Gay, 220 Devonshire St., Boston, consult. engrs.; adv. E. N.-R. Apr. 15. Noted Mar. 11.

Mass., Newton (Ind. br. Boston)—Apr. 20, by J. C. Whitney, water comr., City Hall, West Newton, 9,721 lin.ft. 20 in. c.i. mains in Commonwealth Ave., Fuller & Homer Sts. $15,000 bonds. Noted Mar. 25.

N. Y., Perry—May 11, by Village, reconstructing pumping station, and installing oil engine and pumps, etc. H. J. Rowe, 21 Scott Ave., Wellsville, engr.

N. J., Haledon (mail Paterson)—Apr. 22, by Boro Council, waterworks improvements. A. W. Cuddeback, 158 Ellison St., Paterson, boro engr.; adv. E. N.-R. Apr. 15.

N. J., Hawthorne (Ind. br. Paterson)—Apr. 30, by Boro Hawthorne extending mains in several streets. $32,000. H. J. Harder, 129 Market St., Paterson, engr. Noted June 18, 1925.

Pa., Huntington—Apr. 26, by Huntington Boro Water Comm., constructing 3 m.g. reservoir, etc. Morris Knowles, Inc., 507 Westinghouse Bldg., Pittsburgh, engrs.; adv. Apr. 15.

Pa., Phila.—Apr. 20, by Dept. Pub. Wks., Bureau of Water, single nozzle fire hydrants, Contr. 811; cast iron pipe, Contr. 812; foundation and piping for Shawmont and Roxborough booster pumping stations, Contr. 815; flow meters for 50 m.g.d. pumps for Torresdale Pumping Sta., Contr. 816; and feed water heater for same Contr. 817. G. H. Biles, dir.

S. C., McCormick — Apr. 20, by City, waterworks. E. G. Smith, 313 Herald Bldg., Augusta, Ga., engr.

La., Agurs — Apr. 21, by T. McCarthy, clk. 9,950 lin.ft. 8 in. and 13,400 lin.ft. 6 in. c.i. also 10,220 lin.ft. 2½ in. wrought iron pipe, etc. Former bids rejected. C. D. Evans, 30 Levy Bldg., Shreveport, engr.

O., Cincinnati—Apr. 20, by Comrs. Hamilton Co., 6,800 ft. 4- to 6-in. c.i. mains, etc., in Water Supply Line 32, Dist. 1 (Brockwell Park Sub-division), $15,010; 5,820 ft. 6- to 10-in. c.i. mains in Water Supply Line 31, Dist. 4, $20,431; 31,924 ft. 6- to 8-in.

See classified index on bids wanted on page 217

Strong Concrete in *Three* Days

Often an important section of floor, wall, foundation, walk or pavement must be built and placed in service promptly.

Then you do not like to wait the number of days usually required for concrete to reach the desired strength. You do not have to! By use of the methods recently announced, *three* days are enough. With these methods and standard *Universal* cement—the same quality *Universal* regularly used—you can get concrete in *3 days* as strong as that ordinarily obtained in 28 days, and much stronger at all ages.

Illustrated circular telling how to obtain this time-saving, strong concrete in *3 days* sent upon request to

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Waterworks (Continued)

c.i. mains, etc., in Water Supply Line 27, Dist. 4 and 5 (Muddy Creek, Rapid Run and Pontius), $70,531; and a 10,903 ft. 6-in. c.i. mains, etc., in Water Supply Line 20, Dist. 3 (Griffin, Beechwood and Edgemont Subdivision), $27,605. L. C. Boyatt, Court House, engr.

Ill., Chicago — Apr. 19, by Dept. Pub. Wks., Room 406, City Hall, c.i. pipe and fittings for Western Ave. Pumping Station, 49th St. and Western Ave. A. A. Sprague, comr. Noted Aug. 20.

Bids Received

Conn., Newington—Maple Hall Fire Dist., 38,000 ft. 6- to 12-in. mains and appurtenances in various streets, from J. Driscoll, Torrington, about $22,950. Engrs. est. $25,000.

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, Apr. 6, mains under board walk, Empire Blvd., Elmore Pl., Coney Island, Dumont, Neptune Aves., etc., here, from N. De Stafano, 378 Woodstock Ave., St. George, $17,288. Noted Apr. 1.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity Municipal Bldg., Apr. 6, mains, etc. in Bway. and Laurel Hill Terraces, 3rd, 7th and 10th Aves., Arden, Henshaw Park, East 6th Sts., etc. from Knight & DeMicco, Inc., 448 East Tremont Ave., $82,231. Noted Apr. 1.

Pa., Phila. — Dept. Pub. Wks., Bureau of Water, Apr. 6, switchboards and wiring for Belmont and Roxborough Pumping Stations, Contr. 814, from Herman Mayer Co., Inc., 103 Walnut St., $46,852.

O., Cincinnati — Comrs. Hamilton Co., Mar. 23, 18,587 ft. 4- to 6-in. c.i. mains in Water Supply Line 29, Dist. 3 (Golf Manor), from E. Meier, Ringgold Ave., $36,835, engrs. est. $39,924; and 43,432 ft. 6- to 10-in. in. Water Supply Line 24, Dist. 2 (White Oaks, 2nd Contr.), from J. Dempsey, 5310 Carthage Ave., Norwood, $91,449, engrs. est. $95,069. Noted Mar. 18.

O., Cleveland—Bd. Comrs. Cuyahoga Co., Mar. 31, 3,500 ft. 6 and 8 in. c.i. mains in East 172nd St. and Wood Ave., Impvt. 569, from Marro Co., Engineers Bldg., $9,220.

Ill., Decatur—City, Mar. 31, 6 filter beds and water softeners, from File & Collins, Milliken Bldg., $143,689, engrs. est. $150,000; 6 in. mains in South Main St., East Cantrill and Lakeside additions, from J. L. Johnson, Decatur, $20,725, engrs. est. $25,000. Noted Mar. 11.

Wash., Puyallup—Pumping plant, 8 mi. 7- to 8- in. distribution system, reservoir, 30,000 gal. wood stave tank on 20 ft. timber tower, etc., from F. A. Keasal, 1004 North Cushman St., Tacoma, $24,377. Engrs. est. $25,000.

Contracts Awarded

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains, etc., in 32nd and 81st Aves., Darthmouth, Loubey, Pansy Sts., etc., to B. Costanzo, 2777 Myrtle Ave., Brooklyn, $10,400. Noted Apr. 8.

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains, etc., in 14th St., Astoria, and 47th Aves., etc., to S. Gallucci & Sons, 38 Railroad Ave., Corona, $11,000. Noted Apr. 1.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains, etc., in Central Park, Bway., 1st and 3rd Aves., to Knight & DeMicco, 448 East Tremont Ave., $18,023. Noted Apr. 1.

N. J., East Paterson — Mayor and Boro Council, Gilbert Ave. School, water supply system, incl. pipe, valves, hydrants, etc., to E. B. Egan, Schenectady, $61,000. Noted Feb. 18.

N. J., New Brunswick—Bd. City Comrs., 25 Livingston Ave., Apr. 6, Farrington Dam, concrete 550 ft. long, 50 ft. high across Lawrence Brook, at Parsons Mills, used for city water purposes, to A. Phelps & Sons, Knoxville, Ia., $91,200. Noted Mar. 18 under "Dams."

Del., Wilmington — Bd. Water Comrs., 16th and French Sts., additional coagulating basin for mechanical filter plant, to J. H. Hutchison & Selbyville Mfg. Co., Newark, $69,643. Noted Feb. 25.

Md., Baltimore—Bd. Awards, excavating trenches in Western Dist. for Bureau Water Supply, to M. L. Quinn, 5308 York Rd., $34,965. Noted Apr. 8.

Miss., Biloxi—See "Sewers."

Miss., Long Beach — Mayor and Bd. Aldermen, to A. M. Lockett & Co., 521 Baronne St., New Orleans, La., waterworks improvements, incl. motor driven pumps and equipment, $4,081; to Pittsburgh-Des Moines Steel Co., 1217-18 Praetorian Bldg., Dallas, Tex., 50,000 capacity steel tank on tower, $4,525; to A. B. Hayden, Inc., Pass Christian, 125,000 gal. capacity concrete reservoir $3,627, concrete foundations $891,000, brick building $4,400, settling hydrants $286, and drilling 6 in. well $3,000; to Natl. Cast Iron Co., Tarrant City, Birmingham, Ala., c.i. pipe $26,425; to Dixie Mill Supply Co., Inc., 901 Tchoupitoulas St., steel pipe and fittings $2,641, hydrants, valves and boxes $4,351. Grand total $944,336. Noted Mar. 11.

Tenn., Clinton — Waterworks extensions, new reservoir, relaying pipe line, etc., to Sherman Machine & Iron Wks., 18-23 East Main St., Oklahoma City, Okla., $165,000. Noted Dec. 10.

O., Cleveland—Cuyahoga Co., mains in Lorain and Clague Rds., to Langenham Constr. Co., Marshall Bldg., $77,840. Noted Mar. 25.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, c.i. mains, castings c.i. fire hydrants and valves, and brick valves basins in South Green St. from West 96th to West 98th Sts., South Larmine Ave. from West 51st to West 52nd Sts., South Sayre Ave. from Archer Ave. to West 52nd St., Caldwell Ave. from Spokane to Legett Aves., Lemai, Leroy, Leona, Lennox and Legett Aves. from Caldwell to Hiawatha Aves., to S. Ryan, 2927 West Congress St.; Luella Ave. from East 102nd to East 103rd Sts., East 127th St. from Carondelet to Escanba Aves., West North Ave. from North Sayre to North Oak Park Aves., North Oak Park Ave. from West North to Castello Aves., Castello Ave. from North Oak Park to North Newland Aves., Dickens Ave. from North Oak Park to North Newland Aves., Armitage Ave. from North Oak Park to North Harlem Aves., North Newcastle Ave. from West North to Dickens Aves., North New England Ave. from West North to Dickens Aves., and North Newland Ave. from North to Armitage Aves., to M. Murphy, 5354 South Michigan Ave. Noted Mar. 18 under "Streets and Roads."

Wis., Milwaukee—Central Bd. Purchases, J. W. Nicholson, ch. buyer, mains in various streets, to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., $124,706. Noted Apr. 8.

Kan., Winchester—New waterworks, incl. 50,000 gal. capacity steel tank on 100 ft. tower, etc., to J. O'Neil, Leavenworth, $28,843.

Mo., Jefferson City—See "Railways under Missouri."

Okla., Porter — Waterworks, to W. L. Hoffman, 2221 West Bway., Oklahoma City. Engrs. est. $30,000. Noted Oct. 8.

Calif., Burbank — For 350,000 gal. reservoir, 48 ft. wide, 90 ft. long and 14 ft. deep, to Odell Constr. Co., Lane Mortgage Bldg., Los Angeles, $12,057. Noted Mar. 25.

Calif., Los Angeles—See "Dams."

Calif., San Diego — A. H. Wright, city clk., 36 in. lock bar pipe installed, excepting excavation for Sect. 2 Lakeside University Heights Reservoir, to Western Pipe & Steel Co., 5717 Santa Fe St., Los Angeles, $842,775; also excavation and backfill for pipe line, to C. E. Green, Western Mutual Bldg., Los Angeles, $123,027. Noted Mar. 4.

Sewers

Proposed Work

Mass., Gloucester — Making preliminary plans extending sewers in various streets. To exceed $25,000. R. W. Horne, 200 Devonshire St., Boston, engrs.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, rejected bids Mar. 31, pumping station at Northeast Sewage Treatment Works, Wheatsheaf Lane. G. H. Biles, dir. Noted Apr. 8.

O., Akron—W. F. Peters, dir. Pub. Serv., soon takes bids 6,060 ft. 10- to 24-in. vitr. clay sewer in Mull Ave. et al, $32,500; and 2,450 ft. 12- to 48-in. in Campbell St. et al, $27,900. J. E. Root, Municipal Bldg., engr.

O., Akron—W. F. Peters, dir. Pub. Serv. soon takes bids 17,535 ft. 8- to 42-in. vitr. clay sewer, etc. in Dan St. et al., $121,000; 3,370 ft. 8- to 42-in. in. Black St. et al., $31,100; 5,975 ft. 8- to 26-in. in West Exchange St. et al., $39,800; 3,030 ft. 8 in. Hardesty Blvd., $12,300; 3,750 ft. 8- to 30-in. Lucille Ave. et al., $22,000; 2,600 ft. 8 in. Dover St., $9,400; 2,920 ft. 8- to 39-in. Laffer Ave. et al., $22,500; 1,755 ft. 8- to 15-in. Kline St. et al., $8,100; and 3,325 ft. 8- to 20-in. Hammel St. et al., $16,800. J. E. Root, Municipal Bldg., engr.

Mich., Detroit — Dept. Pub. Wks. (**L. means Lateral**), made plans 12- to 24-in. vitr. and 2 ring brick sewers in 1,534 ft. L. 4420, 7,634 ft. L. 4555, 3,871 ft. L. 4556, 3,871 ft. L. 4557, 1,532 ft. L. 4558, 1,310 ft. L. 4568, 4,550 ft. L. 4572, and 10,278 ft. L. 4576; 12- to 18-in. 1,671 ft. L. 4513 and 1,875 ft. L. 4536; 12- to 20-in. 1,833 ft. L. 4514, 3,472 ft. L. 4521, 9,006 ft. L. 4547, and 2,774 ft. L. 4560. P. A. Fellows, city engr.

Mich., Melvindale (br. Dearborn) — Making plans rein.-con. and brick sewage pumping station incl. two 4,000 g.p.m. and one 2,000 g.p.m. vertical motor driven centrifugal pumps. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Ill., Leno—Plans sewerage system. $88,300. C. S. Hepner, Freeport, engr.

Mo., Excelsior Springs — Making plans sanitary sewers in various streets. $35,000. C. A. Haskins, 824 Finance Bldg., Kansas City, engrs. Noted Mar. 4.

Texas—Cities of Port Neches and Nederland making plans complete sewerage and waterworks system. $40,000. Municipal Eng. Co., 1107 Athletic Club Bldg., Dallas, engrs.

Tex., Galveston—City, c/o A. C. Kelly, secy., making plans and soon takes bids rein.-con. storm sewer in 24th St. from Ave. J to Ship Channel. $30,000. C. A. Holt, 2214 J St., Galveston, engr.

Tex., Munday — Making plans complete sewerage system and disposal plant. $50,000. Municipal Eng. Co., 1107 Athletic Club Bldg., Dallas, engrs.

Tex., Olney — Plans disposal plant and sewers in various streets. $30,000. Montgomery & Ward, 545 Harvey-Snider Bldg., Wichita Falls, engrs.

Tex., Wichita Falls — State Bd. Control, Austin, making plans 3 mi. sewer from State Hospital to connect with city line, here. $100,000. Montgomery & Ward, 545 Harvey-Snider Bldg., engrs.

Okla., Enid—See "Waterworks."

Colo., Denver—Plans sewers, etc., in 6th Ave. Parkway Special Sanitary Sewer Dist. 1. $78,563. A. K. Vickery, City Hall, engr.

Calif., Mill Valley—Made plans sewers in Blithdale, Throckmorton Aves., etc., 8,571 ft. 4- to 18-in. vitr. pipe 2,069 ft. 12- to 24-in. vitr. sewer on cribbing, etc. J. C. Oglesby, Cheda Blk., San Rafael, engr.

Calif., Oceanside—Made plans 6- to 18-in. vitr. sewers, etc., in various streets. $175,000. R. L. Loucks, city engr.

Calif., Santa Cruz — Voted $450,000 bonds, extending sewers in various streets. J. K. James, city engr. Noted Mar. 11.

Ont., Toronto—York Twp., plans 6- to 12-in. vitr. tile sewers in 960 ft. Amherst Ave. and Northcliffe, $7,756; 1,200 ft. Castleton Ave., $6,234; 660 ft. Holland Park Ave., $3,825; 970 ft. Mahoney Ave., $7,313; private drain connections in Northcliffe Blvd., $1,580. G. B. Goedike, 40 Jarvis St., engr.

Bids Desired

Mass., Boston — Apr. 21, by Dept. Pub. Wks., sewerage works in Allston St., Brighton; Apr. 22, in Corey and Pomfort St., West Roxbury. $25,000. J. H. Sullivan, comr.

N. Y., Brooklyn—Apr. 21, by J. A. Guider, pres. Brooklyn Boro, Boro Hall, repairing sewer basin culverts in various streets.

N. Y., Long Island City—Apr. 21, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sanitary sewer in Riker Ave.; storm water sewer in Hazen St. and temporary cut-off chamber at intersection Riker Ave. and Hazen Sts.; combined sewers in 133rd St.; and sanitary sewer used temporarily as combined sewer in 133rd St.; sewer in Carter Pl., Hazen, Grand, Pacific, Andrews, 79th, 76th, 37th and Leavitt Sts., Ditmars, 17th, 18th, 19th, Calamus, Corinth, Roosevelt, Astoria, 34th and 33rd Aves.

N. Y., St. George — Apr. 16, by J. A. Lynch, pres. Richmond Boro, Boro Hall, system sanitary sewers in New Dorp, Oakwood and vicinity, and at pumping station, near Oakwood Beach, here.

Pa., Kingston—May 3, by Boro. Council, storm drain along Pond Holes and Luzerne Creek. F. C. Wintermute, 404 2nd Natl. Bank Bldg., Wilkes-Barre, boro engr.; adv. E. N.-R. Apr. 15.

Pa., Oil City—Apr. 23, by B. B. Weber, city engr., City Hall, storm sewer in Wabash Ave., and sanitary sewer in High St. Work involves 1,380 ft. 6- to 21-in. vitr. pipe.

Pa., Phila.—Apr. 21, by Dept. Pub. Wks., Bureau of Engineering, branch sewers in 78th Ave., Almond, Bensalem, Bingham, Edgemont, Elmwood, 49th, Glenloch, Homer, Jackson, Large, Marsden, N. Philellena, Salmon and Tyson Sts.; main sewers in Aramingo and Mansfield Aves., 8th and Gillespie Sts. G. H. Biles, dir.

Pa., Westmont—See "Streets and Roads."

Md., Baltimore—Apr. 21, by Bd. Awards, 220 ft. 60 in. rein.-con. pipe drain, 1,295 ft. 8- to 18-in. vitr. sewers 1,000 ft. 6 in. underdrain, etc. in Dists. H-6 and G-2. M. J. Ruark, sewerage engr., City Hall.

"GEE—HAW!"

YOU remember the old days when a loud "GEE" from a teamster led his team in one direction and a "HAW" in the opposite. Well, now-a-days it's even easier than that to steer an INDUSTRIAL crawler.

A patented steering device controlled entirely from the operator's platform through friction clutches makes possible any kind of curve. The operator merely touches a lever and the rest is easy. Full power to both treads is the essential secret of the INDUSTRIAL steering device. However, either belt may be stopped entirely for real sharp turns when required, but for the average turn, full power to both treads gives a smooth, steady curve. Versatility—nothing else but.

The crawler base shown here is one of the several reasons why INDUSTRIALS excel. By means of the patented steering device this base will carry the machine anywhere at the command of the operator. The propelling gears are high up out of the dirt and you will notice that no chains are used, a remarkable advantage in itself. The treads have cast steel shoes of a design that gives a smooth bearing surface to the ground. This and many other features make this car the envy of other crawler machine manufacturers. Follow our advertisements from issue to issue and you will see more clearly why INDUSTRIALS excel.

Other products:—Locomotive cranes 5 to 200 tons capacity, freight cranes, pile drivers, clamshell buckets.

May we send your further information?

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Sewers (Continued)

S. C., McCormick—Apr. 20, by City, sewerage system. E. G. Smith, 313 Herald Bldg., Augusta, Ga., engr.

O., Cleveland—Apr. 21, by Comrs. Cuyahoga Co., 6,000 lin.ft. 8- to 36-in. sewers in vicinity of Broadview and Brookpark Rds., Sewer Dist. 2, Impvt. 75. L. Simon, clk.

O., Cincinnati—Apr. 20, by Comrs. Hamilton Co., for Sewer 11, Dist. 3 (Beechwood and Edgemont Sub-division), 29, 327 ft. 6- to 15-in. vitr. clay pipe, $108,205; Sewer 16, Dist. 1, 10,041 ft. 6- to 10-in. vitr. clay pipe, $31,644. L. C. Boyatt, Court House, engr.

N. D., Washburn—Apr. 19, by R. Schulz, city aud., approximately 11,943 ft. 6- to 12-in. sewers, etc. in various streets. $35,000.

Tex., Grapevine—Taking bids sewers in various streets and disposal plant. $30,000. T. J. Von Zuben, 611 Don Waggoner Bldg., Ft. Worth, consult. engr.

Ont., Toronto—See "Contracts Awarded."

Ont., Toronto — Apr. 20, by T. Foster, mayor, City Hall, 4,500 ft. concrete or brick trunk sewer in Falcon St., Forman, Soudan, and Rawlinson Aves., portion Sect. 2, North Toronto Sewerage System. $125,000. R. C. Harris, City Hall, engr.

Bids Received

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Apr. 7, sewers in (1) Foch Blvd. (2) Springfield Blvd. (3) Hempstead Ave. (4) Jamaica Ave., from Highway Impvt. and Repair Co., Inc., 50 Church St., New York City, (1A) $693,546 (1B) $638,766 (2A) $717,260 (2B) $618,760 (3B) $367,944 and (4B) $944,680; from Kennedy & Smith, Inc., 93 Amity St. (3A) $405,818; and from Muccinni & Decker, Inc., 6102 18th St., Brooklyn, (4A) $1,035,418. Noted Apr. 1.

N. Y., New York—W. J. Flynn, acting pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., Apr. 8, storm water sewer in Varian Ave., from Anita Constr. Co., 2975 Marion Ave., $159,255.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, Apr. 6, sewage treatment and pumping plant west of Ocean Ave., near Oakland Beach, here, from Moharg Barton Co., Inc., 1328 Bway., New York City, $96,859. Noted Mar. 25.

Md., Baltimore—Bd. Awards, Dead Run Trunk Sewer, Sect. 1, in Sewer Dist. G-7, Contr. 228, 4,900 lin.ft. 12- and 18-in. vitr. pipe, and 4,850 ft. 6 and 8 in. underdrain, from F. Angelozzi, Springlake Way and St. Dustans Rd., for Mayor and City Council. $28,704.

O., Cleveland—For 675 ft. 4 ft. "E," 260 ft. 4 ft. 3 in. "E," 365 ft. 3 ft. 9 in. "E," 390 ft. 3 ft. 3 in. "C," 610 ft. 3 ft. "C," and 325 ft. 2½ ft. "C" brick also 1,735 ft. 12- to 24-in. vitr. tile sewer in Pearl Rd., from Yahya Bros., 3196 West 25th St., $47,265; 60 ft. 3 x 12 in. rein.-con. sewer in Bellaire Blvd., from E. Gedney, 14251 Superior Ave., $3,793; 407 ft. 6 ft. 3 in. "E" and 600 ft. 5 ft. 3 in. "C" brick sewer in Quincy Ave., from Winterbottom-Connelly Co., 1400 West 25th St., $40,178; also 360 ft. 4½ ft. and 425 ft. 4 ft. brick sewer in West 58th St., from Janashak & Callow, 13606 Union Ave., $17,262. Noted Mar. 4.

O., Geneva — Bd. Comrs. Ashtabula Co., Red Brook Sewage Plant, 1,225 cu.yd. excav., 505 cu.yd. concrete, 48,000 lbs. reinforcing settling tanks, etc. in Sect. A, from Koski Constr. Co., Ashtabula, $32,077; 1,350 ft. 24 in. vitr. pipe, 1,350 ft. 24 in. concrete, and 265 ft. 24 in. storm sewer in Sect. B, from Herrich & Whipple Constr. Co., Erie, Pa., $30,918; and 24 in. c.i. pipe, Sect. C, from F. A. Wells Constr. Co., 30 Euclid Arcade, Cleveland, $23,995. Noted Jan. 21.

Wis., Kenosha—C. M. Osborn, city mgr., Mar. 26, 3.4 mi. 8- to 42-in. sewers in various streets, from Peder Frandsen, 1126 Selleck Ave., rein.-con. and concrete pipe, $51,760; and rein.-con. and vitr. clay pipe, also sewer stubs, etc., from M. Thompsen, 1020 Salem Ave., $52,160 and $8,275 respectively.

Wis., Wauwatosa—Bd. Pub. Wks., A. Brigham, secy., Apr. 2, sewer and water connections in North Ave., from T. G. Holton, 345 27th Ave., Milwaukee, $37,357. Noted Mar. 25.

Tex., Ft. Worth — South West Side Sewers, from James Contg. Co., 805 Trunk Ave., Dallas, concrete pipe $53,487, and from Southwell & Abbott, 605 East 2nd St., vitr. pipe. $63,542.

Contracts Awarded

Miss., Biloxi—Sewers and water mains in various streets, to Biloxi Plumbing & Heating Co., Biloxi, $43,713. Noted Mar. 11, under "Streets and Roads."

O., Akron—W. F. Peters, dir. Pub. Serv., 1,655 ft. 18- to 42-in. vitr. clay sewer in Manning Lake Trunk (Parkdale et al), to E. and W. McShaffrey, 574 Rhodes Ave., $28,772, engrs. est. $35,500; also 2,775 ft. 12- to 48-in. in River St. et al, to W. P. Gibbons Contg. Co., Hotel Akron, $33,198, engrs. est. $35,800. Noted Mar. 25.

O., Cleveland—Bd. Comrs. Cuyahoga Co., 2 story tank with inlet sewer and sludge pit, Impvt. 75, Sect. C, to Freeman & Jones Co., Cleveland, $14,060; and 1,500 ft. vitr. sewers in Impvt. 109, to Janashak & Callow, 13606 Union Ave., $8,339.

O., Cleveland—For 110 ft. double barrel concrete sewer in Sect. 1 and 115 ft. 4 x 8 concrete sewer in Sect. 2 Puritas Ave. to Kassouff & Co., 3182 West 25th St., $8,998 and $3,943 respectively; 865 ft. 8- to 24-in. vitr. tile sewer in Bader Ave., to Janashak & Callow, 13606 Union Ave., $4,071; 202 ft. 4½ ft. concrete sewer in Kingsbury Run, to Ciraci Constr. Co., 3414 East 123rd St., $4,421. Grand total $22,063. Noted Apr. 1.

Ill., Chicago — Bd. Local Impvts., Room 207, City Hall, tile sewers with brick manholes and catch basins in Normal Ave. from West 95th St. to alley west of 97th St., to Fosco Bros.; South Peoria St. from West 103rd to West 107th Sts., to A. Scully, 5467 Kamerling St.; North Carolina Ave. from Toughy Ave. to Howard St., Jarlath, and Howard Sts., Chase, Fargo, Birchwood and Jerome Aves. from North California Ave. to North Rockwell St., Sherwin Ave. from North California Ave. to North Western Aves., North Fairfield Ave. from Fargo, to Jarvis Aves., North Washtenaw and North Talman Aves. from Fargo to Jarvis Aves., North Rockwell St. from Birchwood Ave. to Howard St., and North Rockwell St. from Jarvis to Fargo Aves., to Carmine Bros. Noted Mar. 18.

Ill., La Grange—City, South Side Sewers, incl. sanitary and storm sewers, etc., to E. R. Harding & Co., 400 James Blk., Racine, Wis., $248,934. Noted Jan. 28.

Ill., Rockford—See "Streets and Roads."

Wis., Milwaukee—Dept. Pub. Wks., to P. & L. Co., 038 Edgewater Ave., vitr. sewers in Cedarburg Rd. $4,134, to G. E. and L. Zimmermann, 3402 Grand Ave., Chambers St. $1,585, Euclid Ave. $2,145, Locust St. $2,251, 9th Ave. $3,829, Ohio Ave. $1,499, 6th Ave. $1,117, and monolithic concrete sewer in 27th St. $110,031; to Szukalski & Matke, 1089 American Ave., vitr. sewer in A-Euclid Ave. $910, Ohio Ave. $794, and 7th Ave. $1,022, to Shobart-Rauch, Inc., 1003 41st St., 1st Ave. $6,534, and 2nd Ave. $6,484, to Nevada Constr. Co., Nevada, Ia., Fond du Lac Ave. $6,001, to H. Hohensee, Ludington Ave., Wauwatosa, Fond du Lac Ave. $20,301, to J. B. Forrestal Co., 215 15th St., Hayes Ave. $318, to Milwaukee Sewer & Drainage Co., 928 Humboldt Ave., 6th St. $398, to W. T. Werner, 675 Hi-Mount Blvd., Way Pl. $1,146; and to Mierswa Constr. Co., 1619 Oregon St., monolithic concrete sewers in Center St. $53,749. Grand total $224,248. Noted Mar. 18.

S. D., Sioux Falls—City Comrs., sewage treatment plant, Div. A, concrete throughout, to Peterson & Henningson, Tracy, Minn., $64,357. Noted Mar. 4.

Tex., Ft. Worth—Storm sewers in Forest Park-Biddison, to Tarrant Constr. Co., 1005 Calhoun St., $68,822.

Tex., Houston — Sanitary and storm sewers in Texas Ave., Main and Chenevert Sts., to Pfeiffer Constr. Co., 2113 Crockell St., $29,938.

Calif., Glendale—Sewers in Sewer Dist. 3 (Colorado St., etc.), to B. D. Zaich, 220 West 56th St., Los Angeles, $106,085. Noted Apr. 1.

Calif., Yuba City—For 70,000 lin.ft. 6- to 16-in. concrete sewers in various streets, to Merced Concrete Pipe & Constr. Co., Merced, $59,842. Noted Mar. 25.

Ont., Toronto — York Twp., sewers in Fairbank and Bowie Aves., to W. E. Taylor, 22 Falcon St., $9,804; Northcliffe Blvd., to H. S. Walton, 60 Gamble Ave., $4,460; Humbercrest Blvd. and Ossington Ave., by day labor, $12,787. Grand total $27,051. Work involves 6,000 ft. 8 in. vitr. tile pipe.

Waste Disposal

Proposed Work

Mo., St. Louis—See "Unclassified."

Bids Received

O., Hamilton—G. C. Mitchell, serv. dir., Apr. 5, garbage plant, from C. E. Walthers Co., New York City, N. Y., 75 ton plant and radio brick stack, $24,800 and $3,800 respectively; from Pittsburg-Des Moines Co., Curry Bldg., Pittsburgh, Pa., 60 ton plant, $24,700; from W. G. Morrison, 602 Callahan St., Dayton, 30 ton reduction plant, $47,000; from David & Farley Co., Cleveland, 50 ton furnace, $45,000; from Decarie Incinerator Corp., 342 Madison Ave., New York, 70 ton furnace, $45,999; from C. O. Bartlett & Snow, French and Winter Sts., Cleveland, 60 ton furnace, $45,000; and from Superior Incinerator Co., Wilson Bldg., Dallas, Tex., 60 ton furnace with stack, $42,500.

Contracts Awarded

O., Massillon—Complete garbage disposal plant, to Superior Incinerator Co., Wilson Bldg., Dallas, Tex., $40,000.

Okla., Enid—Single unit garage incinerator, to Superior Incinerator Co., Wilson Bldg., Dallas, Tex., $21,000. Noted Dec. 24.

Bridges

Proposed Work

N. C., Wilson—Wilson Co. sold $625,000 bonds, of which $250,000 will be used constructing bridges on new county highway system, and remainder to pay for roads (now under construction). H. W. Rankin, Wilson, engr.

Tenn., Farmington—Marshall Co. (Lewisburg), and State Dept. Highways & Pub. Wks., Nashville, making surveys bridge, probably concrete, and approaches over Rocky River, near here. Work will be under supervision State Dept. Highways & Pub. Wks. C. N. Bass, comr.

O., Lorain — Plans bridge over Black River, at 14th St. $250,000.

Ia., Iowa City—City Council and Chicago, Rock Island & Pacific R.R. Co., La Salle St. Sta., Chicago, Ill., C. A. Morse, ch. engr., plan bridge over branch line of railroad tracks, here. $40,000. G. J. Dohrer, city clk.

Missouri — Carroll Co. (Carrollton) and Chartion Co. (Keytesville) plan steel bridge. $35,000.

Mo., St. Louis—City and St. Louis Co. plan rein.-con. and steel viaduct to carry Arsenal St. over St. Louis & San Francisco R.R. tracks. $90,000. L. R. Bowen, 301 City Hall, engr.

Texas and Mexico—Gateway Bridge Co. c/o R. B. Creager, Brownsville, Tex., plans steel and rein.-con. bridge across Rio Grande River between Brownsville, Tex. and Matamaras, Mexico. G. A. Fraser, 708 Kirby Bldg., Dallas, engr.

Tex., Cleburne — City, c/o W. H. Goldsmith, mayor, making plans steel and rein.-con. bridge across Buffalo Creek, on West Wardvill St. $30,000. C. H. Teesdale, Cleburne, engr.

Tex., Floresville — Wilson Co., C. B. Stevenson, judge, making plans steel bridge and graded approaches on Highway 81, across Cibolo River. $79,000. F. E. Hess, Floresville, engr.

Tex., Sanderson — Southern Pacific R.R. Co., H. M. Lull, ch. engr. Texas Lines, Houston, making plans rein.-con. 4 track bridge over Sanderson Creek. $125,000.

Calif., Los Angeles — Election Apr. 26, $1,900,000 bonds, municipal improvements, incl. viaduct or bridge across Los Angeles River at adjacent railroad tracks at 6th St., also at East Washington St., and replacing, repairing and altering various bridges and viaducts.

Bids Desired

Maine — Apr. 21, by State Hy. Dept., Augusta, Hobart St. Bridge in Edmunds; Baileys Island Bridge in Harpswell; Butler Bridge and Great Works Bridge in New Portland; Toddy Pond Bridge in Orland; Handy Brook Bridge in Readfield, Woodman's Hill Bridge in Searsmont, and Mill Bridge in Stetson.

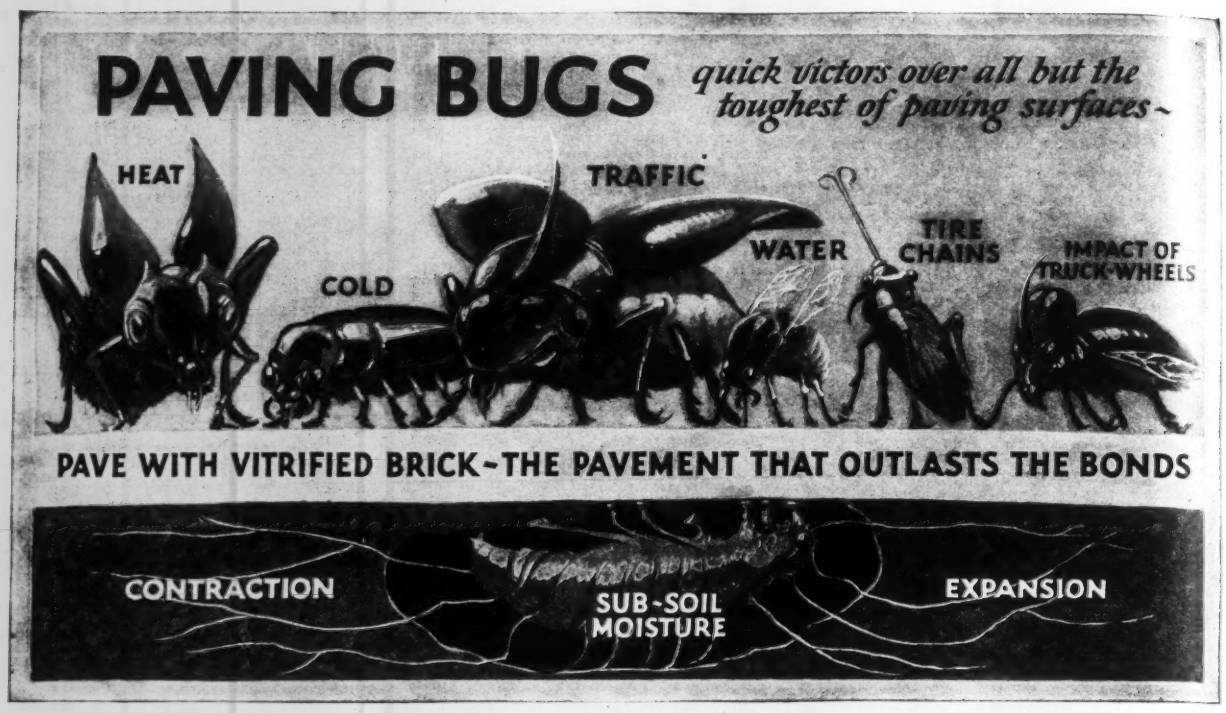
Massachusetts—See "Streets and Roads."

Rhode Island—Apr. 28, at office State Bd. Pub. Roads, State House, Providence, State Bridges 143, 204, 205, 206, 207 and 213; adv. E. N.-R. Apr. 15.

Fla., Jacksonville — May 10, by Comrs. Duval Co., Court House, new concrete highway bridge over Big Pottsburg Creek, on Atlantic Blvd., Rd. 2. T. B. Carrick, 305 Court House, co. bridge engr.; adv. E. N.-R. Apr. 15.

Louisiana—May 11, by State Hy. Comn., Baton Rouge, three 80 ft. steel low truss and four 31 ft. rein.-con. deck girder span bridge, on Jena-Jonesville Highway, Federal Aid Project 166-C, Catahoula Parish. W. B. Robert, Reymond Bldg., state engr.

O., Dayton — May 7, by Comrs. Montgomery Co., Court House, 240 ft. span steel through truss highway bridge over Twin Creek on state road in German Twp.; and substructure for steel highway bridge over Bear Creek in Miami Twp. $60,000. W. O. Pease Dayton co. surv.



THE annual cost of a pavement is its first cost *plus* interest on its bonds *plus* every later expenditure for upkeep and repairs, *divided* by the number of its useful years.

From the instant it is laid, a pavement is subject to destructive forces. The jolt of heavy trucks tend to crack and pulverize brittle materials. Tire chains gnaw into soft surfaces. Contraction and expansion attempt to throw the riding surface into hummocks or to rend and shatter rigid construction. Freezing and thawing of sub-soil moisture racks any rigid pavement surface. Surface seepage, a milder but ceaseless enemy, accelerates decay of short-lived materials.

The combination of these forces wreck some surfaces in a few years. The hand of man, cutting trenches for underground installations, hastens this deterioration, unless the surfacing material can be lifted and replaced without requiring new material.

Only one pavement, at reasonable first cost, meets every modern condition—*the asphalt-filled vitrified brick pavement.*

VITRIFIED Brick PAVEMENTS OUTLAST THE BONDS

Its fire-hardened surface resists traffic wear indefinitely—scores of brick pavements are well beyond the 30-year mark. The elastic asphalt joint withstands the bending, jolting and heaving actions of heavy loads, temperature changes and subsoil freezing. Cross-trenches are economically cut because the asphalt joint, though a tight water-seal against seepage, keeps each brick a quickly removable unit that comes out and goes back into place with virtually 100% salvage.

To cap every other advantage, should the surface of a brick street or road, due to foundation failures, become uneven after a quarter-century or more of service, the original brick can be relaid and a smooth, renewed pavement secured at a small fraction of the first cost of any other known pavement!

Moral—advocate vitrified brick for pavements in your community.

I would be glad to receive a free copy of book, "Brick Roads Outlast the Bonds," containing facts and figures on paving costs taken from public records.

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NATIONAL PAVING BRICK MANUFACTURERS ASSOCIATION, ENGINEERS BLDG., CLEVELAND, OHIO

Bridges (Continued)

Wisconsin—Apr. 23, by State Hy. Comn., and City of Neenah, City Hall, Neenah, constructing Fox River Bridge, 2,707 cu.yd. rein.-con., 7,360 lb. structural steel, etc.; also North and South Canal Bridge, 1,521 cu.yd. rein.-con., 4,850 lb. structural steel, etc. J. T. Donaghey, Madison, ch. engr.

South Dakota — Apr. 27, by State Hy. Comn., Pierre, **(F. A. P. means Federal Aid Project and S. A. P. means State Aid Project)**, constructing two 67 ft., one 144 ft., one 128 ft. and one 140 ft. concrete viaducts on F. A. P. 158-B, Clay Co.; one 50 ft. on F. A. P. 194-B, Hand Co.; one 90 ft., one 160 ft. and one 120 ft. on F. A. P. 162-C, Jackson Co.; and 384 ft. concrete viaduct over Redwater River, on F. A. P. 266-B, Butte Co.; one 36 ft. I-beam span and one 30 ft. viaduct on F. A. P. 185-F, Jones Co.; one 34 ft. viaduct, F. A. P. 191-E, Kingsbury Co.; one 34 ft. viaduct on F. A. P. 183-B, Spink Co.; one 50 ft. and one 150 ft. viaducts on F. A. P. 194-C, Brule Co.; one 90 ft. concrete and one 178 ft. viaducts on S. A. P. 133, Minnehaha Co. J. C. Botterman, Pierre, highway engr.

Texas—See "Streets and Roads."

Tex., Boston—See "Streets and Roads."

Tex., Cameron—See "Streets and Roads."

Tex., Dallas—See "Streets and Roads."

Tex., Henderson — See "Streets and Roads."

Tex., Huntsville — See "Streets and Roads."

Washington—See "Streets and Roads."

Bids Received

North Carolina—State Hy. Dept., Raleigh, Mar. 30, rein.-con. bridges, etc. on Project 398, Robeson Co., and Project 6690, Rowan Co., from J. S. Bowers, Whiteville, $40,664 and $46,805 respectively; on Project 480, Wake Co., from Roanoke Iron & Bridge Wks., Roanoke, Va., $31,593; on Project 244, Jones Co., from E. A. Wood & Co., Andrews, $39,280; on Project 591, Rockingham Co., from Draper & Wood, Roanoke, Va., $46,862. Noted Mar. 18.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, Mar. 31, rein.-con. slab bridge and rein.-con. substructure on Route 24 Sect. 14-B, Sangamon Co., from Hurden Constr. Co., Springfield, $32,306; steel superstructure on Route 24 Sect. 14-C, Sangamon Co., 179,060 lb. reinforcing, from Vincennes Bridge Co., Vincennes, Ind., $10,931; rein.-con. bridge on Route 38, Sect. 3-B, Jersey Co., from Medaris Constr. Co., Greenville, $3,315; 3 rein.-con. bridges on Route 38, Sect. 6-B, Jersey Co., from Herrick Constr. Co., Carlinville, $16,107; rein.-con. bridge on Route 43-A, Sect. 2-B, Menard Co., from I. D. Lain, Bloomington, $30,741; steel superstructure on Route 43-A, Sect. 2-C, Menard Co., 1,440,910 lb. reinforcing, from Illinois Steel Bridge Co., Jacksonville, $87,765; rein.-con. bridge on Route 13, Sect. 4-B, Saline Co., from W. H. Shons Co., 11 South Liberty St., Freeport, $9,237; steel bridge on Route 2, Sect. 11-B, Union Co., 151,890 lb. reinforcing, from V. L. Peters, Homer, $26,116; also sidewalks on bridge on Route 36, Sect. 10-D, Adams Co., from H. T. Roberts, Rushville, $1,979. Noted Mar. 18.

Tex., San Antonio—Bexar Co., c/o A. McCloskey, judge, constructing 3 rein.-con. bridges from 92 to 183 ft. long, and 3 rein.-con. bridges from 86 to 260 ft. long, in Precinct 1, from L. E. Sanders, c/o Houston Bldg., $73,182 and $81,110 respectively; 260 ft. rein.-con. bridge in Precinct 3, from Black & Werner, 807 Drexel St., $27,596; and approximately 232 ft. rein.-con. bridge in Precinct 4, from Dielman Constr. Co., 305 East Commerce St., $25,717.

Contracts Awarded

Fla., Jacksonville — Duval Co., general contract Pablo Creek drawbridge, on Atlantic Blvd., to Ward-Latham, Clearwater, and Amer. Bascule Bridge Co., 155 North Clark St., Chicago, $131,564. Noted Mar. 25.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, bridges on Project 36-C, Shelby Co., to Booz Boyd & Co., Hickory, N. C., $65,328. This corrects report in Mar. 25 issue.

Ohio—Dept. Hys. & Pub. Wks., to W. H. Heiby & Co., Marietta, rein.-con. bridge on Sect. "U" Ohio River Rd. Washington Co. $20,757, on Sect. "H" same road $3,780 and bridges and culverts on Sect. "H" same road $5,841; to Merry & Miller, Caldwell, bridge on Sect. "I" Athens-McArthur Rd., Athens Co., $4,876. Noted Mar. 11.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridge on Route 29, Sect. V-1, Bureau Co., to Hurtgen & Sayer, St. Louis, Mo., $14,696; on Route 40, Sect. 5 V, Carroll Co., to W. D. Lonergan Constr. Co., Streator, $18,707. Noted Feb. 11.

Kan., Hays—See "Streets and Roads."

Wyo., Powell—State Hy. Dept., Cheyenne, 80 ft. steel truss bridge near here, Park Co., to C. O'Neill, Platteville, Colo., $17,193. Engrs. est. $25,000. Noted Mar. 25.

Tex., Clarksville — See "Streets and Roads."

Tex., Dallas—See "Streets and Roads."

Ontario—See "Streets and Roads."

Dams

Proposed Work

N. C., Lexington—Tallahassee Power Co., Badin, plans 20 ft. dam across Yadkin River, about 20 mi. south of here.

Bids Desired

Conn., Norwich—Apr. 29, by Bd. Water Comrs., at office Chandler & Palmer, engrs., Norwich, dam and appurtenances; adv. E. N.-R. Apr. 15.

Contracts Awarded

Calif., Los Angeles—Los Angeles Co., from H. E. Heller, Stacto and Pine Sts., Stockton, constructing 155 ft. angle arch dam, 540 ft. at crest and 65 ft. bottom, also 350 acre ft. reservoir, 22,000 cu.yd. earth excav. at $3.60 per cu.yd., 2,000 cu.yd. rock excav. $8, 42,000 cu.yd. mass concrete $4.45, 300 cu.yd. rein.-con. $10, etc., total $296,905.

Railways

Proposed Work

Missouri—Muscle Shoals, Birmingham & Pensacola R.R. Co., c/o St. Louis & San Francisco R.R. Co., F. G. Jonah, ch. engr., Frisco Bldg., St. Louis, making preliminary plans relocating and eliminating curves and heavy grades on 7.6 mi. (two sections) in St. Louis. $150,000.

Texas—Southern Pacific R.R. Co., c/o G. S. Wear, genl. mgr., Southern Pacific Bldg., Houston, plans freight terminal and office building in Dallas, $1,000,000; also enlarging division terminals, addition to roundhouse, etc. at Sanderson, $150,000. H. M. Lull, ch. engr. Texas lines.

Contracts Awarded

Missouri—Missouri Pacific R.R. Co., Ry. Exch. Bldg., St. Louis, E. A. Hadley, ch. engr., constructing 19 mi. second main line tracks, etc., between Washington and Berger, to List Constr. Co., Ry. Exch. Bldg., Kansas City, and 3.26 mi. second track between Jefferson City and Algoa, incl. cut through hill to replace existing tunnel near Jefferson City, to Winston Bros. Co., Buder Bldg., St. Louis, both total $2,940,000; yard changes, enlargements, with necessary buildings at Jefferson City, to Winston Bros. Co., Buder Bldg., St. Louis, $210,000; steel water tower and piping at Jefferson City yards, to Pittsburgh-Des Moines Steel Co., Tuttle and S. W. 10th Sts., Des Moines, Ia., $30,000; washout piping in Ewing Ave. engine house, St. Louis, to F. W. Miller Heating Co., 332 South Michigan St., Chicago, Ill., approximately $10,000; and 250 ton coaling stations, rein.-con., one at Archie and other at Centerview, to Ogle Constr. Co., 28 East Jackson St., Chicago, Ill., approximately $45,000 each. Grand total $3,235,000.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Miss., Ashland—Wolf River D. D., Benton Co., soon takes bids 13 mi. drainage ditches, 325,000 cu.yd. excav. F. A. Livingston, 201 Masonic Bldg., Louisville, engr.

Tex., Eagle Pass — Maverick Co. Water Impvt. Dist., c/o T. S. Wyche, pres. Eagle Pass Chamber of Commerce, plans to irrigate from 65,000 to 100,000 acres. Election soon to vote on issue, to provide funds for all preliminary work, if same carries $3,000,000 main bond issue will be voted on later. W. L. Rockwell, 107 East 15th St., Austin, engr. Noted Feb. 18.

Bids Desired

N. Y., Fire Island (mail Babylon) **N. Y.**—Apr. 29, by Long Island State Park Comn., 302 Bway., New York City. 125 x125 ft. boat basin, at Fire Island State Park, Suffolk Co., here. H. L. Bowlby, 302 Bway., New York City, ch. engr.; adv. E. N.-R. Apr. 15.

Miss., Philadelphia—J. P. Cooper, secy. Kentawka D. D., taking bids excavating laterals 10, 11 and 12, 60,000 cu.yd. excav. F. A. Livingston, 201 Masonic Bldg., Louisville, engr.

Wis., Milwaukee—Apr. 20, by Dept. Pub. Wks., R. E. Stoelting, comr., dredging rivers and canals. $50,000. Noted Apr. 1.

Bids Received

New York—T. F. Farrell, comr. Canals & Waterways, Dept. Pub. Wks., 55 Lancaster St., Albany, Apr. 8 dredging Erie Canal, channel in Mohawk River from Visscher Ferry to Lock 14, Contr. 230, from Amer. Pipe & Constr. Co., Amsterdam, $88,427, engrs. est. $85,000; and same channel from Indian Castle Creek to Herkimer-Oneida Co. line Contr. 231, from J. W. Hennessy, Inc., 432 Bway., Albany, $166,938; engrs. est. $260,750. Noted Mar. 11.

Contracts Awarded

La., Alexandria—Atchafalaya & Bayou Beouf D. D., 9,500 ft. levee work between Garnier and Tilden, 118,000 cu.yd. excav., to Dameron & Kenyon, Port Allen, at $0.158 per cu.yd.

La., New Orleans — Bd. Levee Comrs. Orleans Levee Dist., Courthouse, driving round piles and placing sheet pile bulkhead in southern shore Lake Pontchartrain from West End to Seabrook, to Scott & Bres, Carondelet Bldg., $135,000. Noted Apr. 8.

La., Shreveport—Bd. Comrs. Caddo Levee Dist., to Howard Kenyon Dredging Co., Port Allen, dredging Kelly Bayou from Arkansas line to Black Bayou, 551,000 cu. yd. excav. at $0.1175 per cu.yd., and 17.5 mi. clearing at $270 per mi.; to Woods Bros. Constr. Co., Lincoln, Neb., 3,300 ft. bank protection on Red River, below here, $62,325. Noted Mar. 11.

Ark., Marianna — Lee Co., Hog Tush D. D., cleaning ditches 4 to 8 ft. deep, and 4 to 10 ft. wide, 200,000 cu.yd. excav., to E. C. Bradenberg, Wayne, at $0.1145 per cu.yd. Noted Mar. 18.

Calif., San Diego—See "Waterworks."

Streets and Roads

Proposed Work

Conn., Bridgeport—Plans paving various streets. $200,000. J. N. McElroy, City Hall, engr.

Conn., New Haven — Plans permanent paving and widening Forbes Ave. from Tomlinson Bridge to Townsend Ave. in cooperation of State Highway Dept. by agreement, $90,000. State Highway Dept., Hartford, engr.

N. Y., Tonawanda—Making plans asphalt or vitr. brick paving Franklin, Harriett, Mullen, and DeKalb Sts. $160,000. T. W. Barrally, Tonawanda, engr.

New Jersey—State Hy. Comn., Trenton, soon takes bids concrete paving 2.738 mi. Buttsville-Belvidere Rd., Warren Co.; 9.633 mi. Absecon-Egg Harbor Rd., Route 3, Atlantic Co.; 2 mi. Woodbridge-Reformatory Rd., Middlesex Co.; and 3.05 mi. Clinton-Perryville Rd., Route 9, Hunterdon Co. W. G. Sloan, Trenton, highway engr.

N. J., Belvidere—Warren Co. plans improving Philipsburg-Belvidere Pike from Harmony to Roxboro. H. W. Vetter, Belvidere, engr.

N. J., Red Bank—Common Council plans widening Monmouth St., from Broad St. to railroad station. $80,000. Engineer not selected.

Pennsylvania—State Hy. Dept., Harrisburg, plans having approximately 1,000 mi. also grading and resurfacing additional 300 mi. roads, etc., during coming season. W. H. Connell, acting secy. highways.

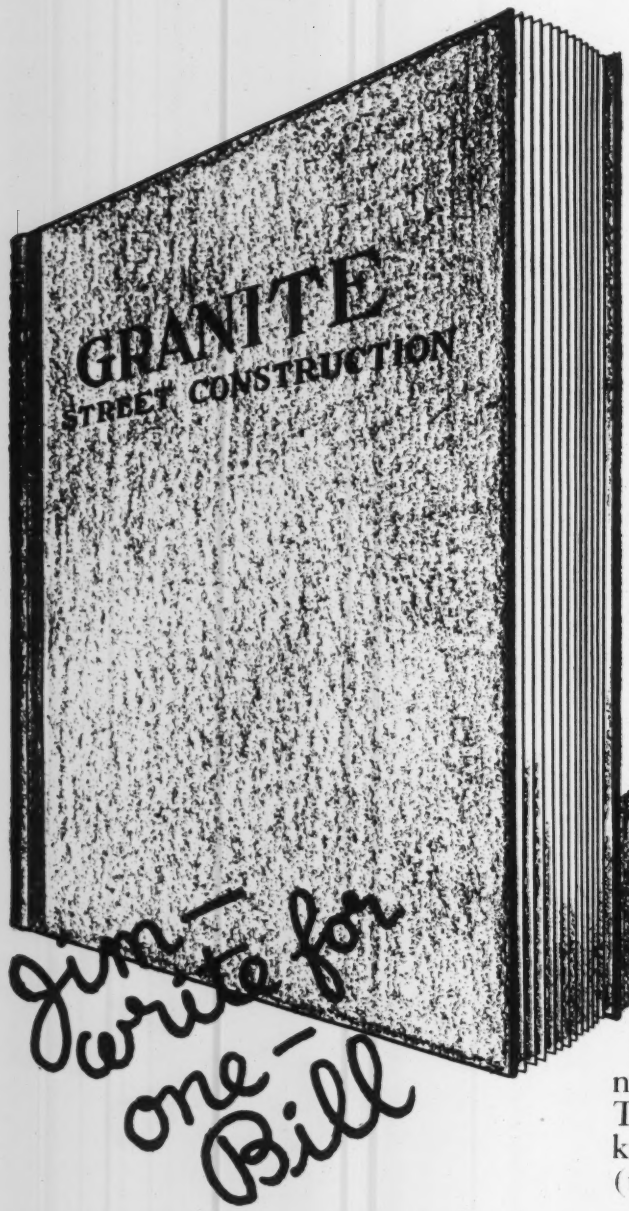
Pa., Waynesboro—Election May 18, $250,000 bonds, of which $84,000 used for paving various streets, etc. J. L. Wood, burgess.

W. Va., Beckley—Trap Hill Dist., Raleigh Co. election May 8, $98,000 bonds, improving various roads. W. J. Campbell, Beckley, engr.

W. Va., Huntington — Cabell Co. soon takes bids concrete paving 3 mi. Johnstown Route and 3 other projects, 16 ft. $100,000. J. M. Oliver, Huntington, co. engr.

W. Va., Morgantown—Clark Dist. Magnolia Co. election May 1, $525,000 bonds, improving various roads. A. J. Baritell, Morgantown, engr.

W. Va., Moundsville—City Council made plans brick paving Morton Ave. and various streets. $100,000. J. J. Sammons, city engr.



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Streets and Roads (Continued)

N. C., Wilson—See "Bridges."

Georgia — State Hy. Dept., East Point, made plans penetration macadam surfacing 1.807 mi. Cornelia-Baldwin Rd., Federal Aid Project 320, Habersham Co. W. H. Neel, East Point, highway engr.

Fla., De Funiak Springs — Walton Co. voted $1,000,000 bonds, completing State Roads 46 and 60. Noted Mar. 11.

Miss., Meridian—Plans paving 16 various streets and 2 avenues.

Miss., Port Gibson—Jefferson Co. making preliminary plans grading, gravel surfacing, etc., road from Lerman to Claiborne Co. line, etc. $90,000. W. C. Stowell, Court House, engr.

La., Baton Rouge—East Baton Rouge Parish voted $67,000 bonds grading, and hardsurfacing Mengel and Louisiana Chemical Rds.

La., Columbia — Caldwell Parish Police Jury voted $350,000 bonds, grading and graveling various roads in Road Dist. 2, lying west of Ouachita River. Swanson & McGraw, Balter Bldg., New Orleans, engrs. Noted Mar. 18.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about June 5, grading, etc., 10 mi. Madisonville-McMinn Co. line Rd., Monroe Co. C. N. Bass, comr.

Tenn., Clarksville—Takes bids about June 1, rock asphalt on limestone macadam paving North 2nd and Castle Sts. $27,000. Noted Feb. 18.

Tenn., Jackson—City Comrs. soon take bids probably concrete paving 20,000 sq. yd. various streets. To exceed $25,000. L. Taylor, Jackson, mayor.

Tenn., Livingston—Overton Co. plans improving 15 mi. Livingston-Fentress Co. line Rd. To exceed $25,000.

Tenn., Spencer—Van Buren Co. and State Dept. Highways & Pub. Wks., Nashville, plans improving 10 mi. Spencer-Pikeville Rd. C. N. Bass, comr.

Kentucky—State Hy. Dept., Frankfort (**F.A.P. means Federal Aid Project**) plans grading 6 mi. Glasgow-Burkesville Rd., F.A.P. 116 Barren Co., 7.51 mi. Jackson Highway from Glasgow to Allen Co. line, F.A.P. 112 Barren Co., 9.5 mi. Morgantown-Hartford Rd. Butler Co., 2.2 mi. Dixie Bee Line from Pembroke to Todd Co. line Christian Co., 10.5 mi. Princeton-Dawson Springs Rd. Caldwell Co., 13 mi. Bardwell-Louisville Rd. Carlisle Co., 3.51 mi. Owensboro-Beech Grove Rd. and 4.75 mi. Owensboro-Hanley Rd. both Daviess Co., 7 mi. Greensburg-Hogdenville Rd. from Allendale to La Rue Co. line Green Co., 9 mi. Mt. Vernon-Stanford Rd. from Mt. Vernon to Lincoln Co. line Rockcastle Co., and 10.6 mi. Dixie Bee Line from Christian Co. line to Guthrie, Todd Co.; grading and surfacing 8 mi. West Dixie Highway from Hart Co. line to Edmonson Co. line, Barren Co.; high type surfacing 11.51 mi. Harlan-Pineville Rd. Bell Co., 3 mi. Owensboro-Henderson Rd. Daviess Co., 6 mi. East Dixie Highway south of Williamstown, F.A.P. 114 Grant Co., 3.7 mi. Elizabethtown-Hodgenville Rd., F.A.P. 118 Hardin Co., 11 to 12 mi. Harlan-Pineville Rd. Harlan Co., 1 mi. Elizabethtown-Hodgenville Rd., F.A.P. 118 Larue Co., 2.9 mi. East Dixie Highway-Richmond-Lexington Rd. Madison Co., 2 mi. Richmond-Mt. Vernon Rd., F.A.P. 88 Madison Co., and 6.6 mi. Richmond-Mt. Vernon Rd., F.A.P. 88, Rockcastle Co. E. N. Todd, highway engr.

Ky., Russelville — Making preliminary plans grading and sheet asphalt paving 16,000 sq.yd. Jackson, Johnson and 4th Sts. $28,000. P. C. Andrews, mayor. Engineer not announced.

O., Cincinnati — Hamilton Co. plans oil surfacing 50 mi. various roads, $34,125; and tar surface treating 12 mi. roads in Woodlawn and Western Divs. $25,538, also 14 mi. roads in Eastern and Cheviot Divs., $25,313, all 16 ft. E. A. Gast, Courthouse, engr.

O., Marietta — Soon takes bids brick paving Putnam St. from 4th St. to bridge, $35,096 and Putnam St. from 4th to 7th Sts., $52,991. F. H. Mautz, Marietta, engr.

O., Youngstown—Comrs. Mahoning Co. soon take bids 4 in. bituminous macadam on 12 in. limestone and crushed rock ballast paving 2.47 mi. Youngstown-Pittsburg Rd., 20 ft. $36,484.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids paving Route 2, Sect. 53, De Witt Co. Noted Oct. 15.

Ill., Anna — Making preliminary plans grading, curbing and concrete paving Dists. 6 and 7. $60,000. Taylor & Woltman, Unity Bldg., Bloomington, engrs.

Ill., Chicago—Cook Co. plans 36 ft. grading and 18 ft. concrete paving with 8 ft. shoulders 192 mi. various roads during 1926. $5,000,000. G. Quinlan, supt. co. highways.

Ill., Decatur—Plans grading, curbing and vibrolithic concrete paving 12 blocks West Olive and South Monroe Sts., St. Louis and Lincoln Aves., 28 ft. $60,000. M. P. O'Brien, City Hall, engr.

Ill., Mount Carmel—Making preliminary plans grading, curbing, concrete paving, etc. 12 blocks 1st and Walnut Sts. L. H. Murray, Mount Carmel, engr.

Ill., Murphysboro — Making preliminary plans brick surfacing various streets. $100,000.

Ill., Peoria—Plans grading, curbing and rein.-conn. paving Olive St., and vitr. brick paving, etc., Central Ave. $45,000. W. Bockes, City Hall, engr.

Ia., Albia—Monroe Co. election Apr. 12, $600,000 bonds, improving various streets.

Ia., Belle Plaine — Making preliminary plans grading, curbing and concrete, asphalt or brick, etc., paving 7,000 sq.yd. 11th St.

Ia., Ottumwa—Wapello Co. voted $1,000,000 bonds, grading and paving various roads. H. E. Hansell, Court House, engr.

Ia., Sioux City—See "Unclassified."

Kan., Ft. Scott—Bourbon Co. made plans improving 2.993 mi. Federal Aid Project 339-A, 18 ft. B. Boyle, Ft. Scott, engr.

Montana—State Hy. Dept., Helena, making plans grading, etc., 5.6 mi. (3 units), Rocky Canyon Rd., Federal Aid Project 222, 24 ft., Gallatin Co. State Hy. Dept., engrs.

Mo., Jackson—Making preliminary plans grading, curbing and concrete, rein.-con. or asphalt paving 15,000 to 20,000 sq.yd. various streets. E. Flad & Co., 1312 Chemical Bldg., St. Louis, engrs.

Mo., St. Louis—See "Unclassified."

Arkansas—State Hy. Dept., Little Rock, making preliminary plans gravel surfacing 24.7 mi. Federal Aid Project 238, Clay Co., $250,000; 8.5 mi. Federal Aid Project 199, Arkansas and Prairie Counties, $80,000; 31.5 mi. Federal Aid Project 236, Garland, Hot Springs and Montgomery Counties, $325,000; and 18 mi. Federal Aid Project 239, Greene and Clay Counties, $200,000. R. C. Limerick, highway engr.

Ark., Hot Springs—Making preliminary plans grading, curbing and paving West Grand and Quapaw Aves., Pecan and Fern Sts., Dists. 88 and 89. G. C. Smith, City Hall, engr.

Ark., Searcy—Plans grading and concrete paving 11,200 sq.yd. Galloway, Spring and 4th Sts. $32,600. J. C. Baker, Searcy, engr.

Tex., Beeville — Bee Co. election soon $300,000 bonds, hard paving 35 mi. road from Skidmore to county line toward Mathis and into rural districts on lateral roads, etc. R. Harrison, Beeville, co. engr.

Tex., Cuero—DeWitt Co. election soon $1,500,000 bonds hard paving 68 mi. highway. S. Kulawik, Cuero, co. judge.

Tex., Eldorado—Schleicher Co. making plans grading and graveling 8 mi. Highway 4. $65,000. J. L. Neil, Eldorado, co. engr.

Tex., Karnes City—Karnes Co. making plans and takes bids within 30 days, rock asphalt paving 10 mi. San Antonio-Corpus Christi Highway, 18 ft. $100,000. O. N. Powell, Karnes City, co. engr. A. C. Love, Austin, highway engr.

Tex., Kingsville — Kleburg Co. making plans grading and 6 in. caliche paving 7 mi. Highway 12. $40,000. H. T. Field, Kingsville, div. highway engr.

Tex., Kingsville—Voted $125,000 bonds, paving various streets. Address Mayor.

Tex., Kountze—Hardin Co. made plans improving 1.8 mi. Highway 8 between Buna and Silsbee. $50,000. Address T. F. Teel, Kountze, judge.

Tex., Olney — Making plans paving various streets. $25,000. Montgomery & Ward, 545 Harvey Snider Bldg., Wichita Falls, engrs. Noted Apr. 1.

Tex., San Saba — San Saba Co. plans bituminous macadam paving 15 mi. Pecan Belt Highway. $200,000. S. J. Bross, San Saba, co. engr.

Tex., San Antonio — Bexar Co. making plans and takes bids within 60 days, hardsurfacing 9 mi. Castroville Rd., 18 ft. $200,000. A. C. Pancoast, 102 Turner St., co. engr.

Tex., San Juan—Election Apr. 27, $60,000 bonds, paving various streets. Engineer not selected.

Tex., Slaton—Voted $100,000 bonds, paving 18 blocks various streets. Montgomery & Ward, 545 Harvey-Snider Bldg., Wichita Falls, engr.

Tex., Yoakum—Lavaca Co. voted $250,000 bonds and State and Federal Aid granted $122,807 improving 24 mi. State Highway 21, etc. W. H. Koether, Yoakum, co. engr.

Oklahoma—State Hy. Dept., Oklahoma City, making preliminary plans grading, etc., 6 mi. State Highway 3, Caddo Co., $35,000; and concrete slab paving 52,810 sq.yd. State Highway 7, Oklahoma Co., $110,000. J. M. Page, highway engr.

Okla., Braman — Plans paving various streets. $60,000. H. E. Musson & Co., Grain Exch. Bldg., Oklahoma City, engrs.

Okla., Waurika — Jefferson Co. election soon $300,000 bonds improving Meridian Highway.

Okla., Wewoka—Plans grading and concrete paving 16,600 sq.yd. Peach, Mikosukey, and Orange Sts., also various alleys. $68,800 bonds voted. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Colo., Denver — Plans grading, curbing and surfacing Harmon Impvt. Dist 2, $205,395; and East Denver Impvt. Dist. 9, $145,469. A. K. Vickery, City Hall, engr.

Wash., Chehalis—Comrs. Lewis Co. take bids about May 1, grading and macadam wearing surfacing 6.5 mi. Winlock-Napavine Highway, 16 ft. R. L. Greene, Chehalis, engr.

Wash., Everett—City Council takes bids about May 5, 28 ft. concrete paving Maple St. between Hewitt Ave. and 32nd St. $23,000. S. E. Paine, Everett, engr.

California—State Hy. Dept., Sacramento, made plans bituminous macadam paving 6.9 mi. road between San Juan and Hollister, San Benito Co. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., El Centro—Imperial Co. making preliminary plans 6 mi. macadam paving approximately 30 mi. road across Valley by way of Calexico, 18 ft. $500,000 or more. P. E. Kressly, H. W. Hellman Bldg., Los Angeles, engr. Noted Feb. 25.

Calif., Los Angeles—Bd. Pub. Wks. takes bids about May 26, curbing, guttering, sidewalks, sheet asphalt concrete and asphaltic concrete paving, etc., Ventura Blvd., 84th Pl., Adams, Erving, Date, Bartlet, Merchant and Hoover Sts., Western, Victoria, Ardmore and 4th Aves. To exceed $75,000. J. C. Shaw, City Hall, engr.

Calif., Los Angeles — Los Angeles Co., made plans improving portion Crocket Blvd. Co. Impvt. 366, 5,106 cu.yd. excav., 3,066 ft. curbing, 14,972 sq.ft. walks, 14,634 sq.ft. guttering, etc. To exceed $30,000. G. Jones, Hall of Records, co. engr.

Calif., San Francisco—San Francisco Co. plans to appropriate $450,000 funds, grading Bernal Cut. M. M. O'Shaughnessy, city engr.

Bids Desired

Vermont—Apr. 20, at office Dept. Highways, Montpelier, one course rein.-con. paving, etc. 11,291 cu.yd. roads in towns of Pownal and Bennington, Federal Aid Project 73B. S. B. Bates, comr.

Massachusetts — Apr. 20, by Dept. Pub. Wks., Boston, bituminous macadam paving 12,200 ft. highway in Revere; rein.-con. paving 1,200 ft. in Swampscott, and 5,284 ft. in Agawam; bituminous concrete paving 4,400 ft. in. Nantucket; also concrete bridge and approaches on 1,050 ft. highway in Billerica, $25,000. W. F. Williams, comr.

Mass., Roxbury (Boston P. O.)—Apr. 20, by Dept. Pub. Wks., Boston, recut granite block paving Blue Hill Ave from Quincy to Washington Sts., here. $25,000. J. H. Sullivan, secy.

Rhode Island — Apr. 21, by State Bd. Pub. Roads, State House, Providence, 250,000 gal. asphaltic oil or refined tar on certain sections state roads; adv. E. N.-R. Apr. 15.

Conn., Hartford—Apr. 20, by Bd. Contract & Supply, Mayors Office, City Hall, asphalt on concrete paving 920 sq.yd. Arch St., 7,800 sq.yd. Elm St., 4,800 sq.yd. Hudson St., 870 sq.yd. State St., 8,000 sq.yd. Blue Hill Ave., 10,000 sq.yd. Franklin Ave., 600 sq.yd. Connecticut Blvd. R. N. Clark, city engr. Noted Jan. 14.

N. Y., Brooklyn — Apr. 21, by J. A. Guider, pres. Brooklyn Boro, Boro Hall, grading and sidewalks on 55th St.; granite on concrete paving Waverly Ave.; grading, curbing, etc., Caton Pl., Rockaway Parkway, Avenue S, Georgia, Snyder and 21st Aves., East 34th, West 10th, 71st and East 31st Sts.; recurbing and permanent asphalt paving Colonial Rd., East 7th, Pulaski, West 9th, 59th, 72nd, East 31st Sts., Hegeman, Livonia, New York, 7th, Riverdale, Pennsylvania, 9th, 10th, 24th and 21st Aves., East 34th St. from Tilden to Beverly Rds., East 34th St. from Avenue I to Long Island R.R. tracks.

N. Y., New York—Apr. 16, by J. Miller, pres. Manhattan Boro, Municipal Bldg., granite block on concrete paving Madison and East 138th Sts.; grading and sheet asphalt on concrete repaving Bway.

N. Y., New York—Apr. 19, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing and flagging Payson Ave. from south building line of Beak St. to Seaman Ave.

N. Y., St. George — Apr. 20, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous macadam paving St. Marks Pl., and concrete sidewalks on New Dorp Lane.

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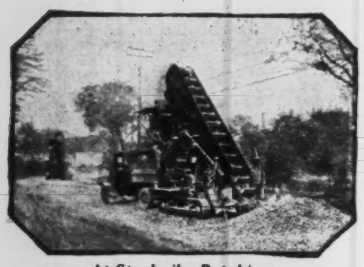

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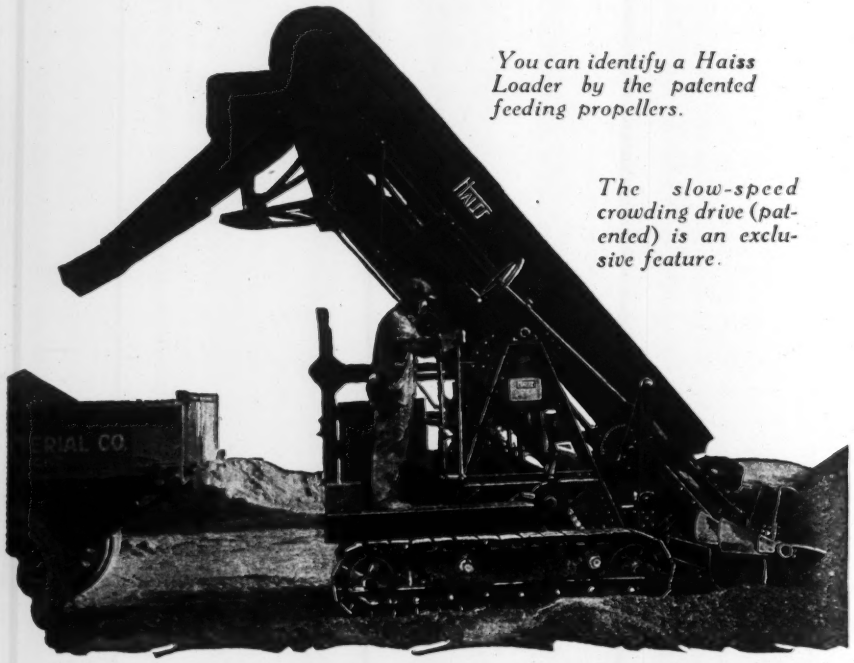

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Streets and Roads (Continued)

New Jersey—May 3, by State Hy. Dept., Trenton, grading and rein.-con. paving 70,250 sq.yd. Whitehorse Pike, Route 3, Sect. 12A from Absecon to Egg Harbor, Atlantic Co.; and 32,807 sq.yd. Buttsville-Belvidere Highway, Route 5, Sect. 17, Warren Co. A. L. Grover, secy.; adv. E. N.-R. Apr. 15.

N. J., Belvidere — May 5, by Freeholders Warren Co., concrete paving 4.43 mi. Belvidere Pike from Harmony to Rockburg, $220,000. H. V. Vetter, Belvidere, engr.

N. J., New Brunswick — May 6, by Bd. Freeholders Middlesex Co., rein.-con. paving 23,455 sq.yd. Woodbridge-New Brunswick Turnpike, Woodbridge Twp. W. F. Buchanan, 175 Smith St., Perth Amboy, acting co. engr.; adv. E. N.-R. Apr. 15.

Pennsylvania — May 6 and 7, by State Hy. Comn., Harrisburg, grading, rein.-con. on broken stone paving, etc., approximately 64 mi. 20 projects in Allegheny, Beaver, Berks, Blair, Bucks, Dauphin, Jefferson, Luzerne, Mercer, Mifflin, Somerset, Susquehanna, Tioga and Westmoreland Counties. W. H. Connell, eng. executive and deputy secy. highways; adv. E. N.-R. Apr. 15.

Pa., Westmont—Apr. 19, by H. P. Shomo, secy. Boro Council, Green St., grading and concrete paving 15,000 sq.yd. Luzerne St.; and 12,700 ft. 8- to 24-in. terra cotta sewers in Luzerne St., Mencher Highway, etc. O. P. Thomas, Park Bldg., Johnstown, engr.

Delaware—Apr. 28, by State Hy. Dept., Dover, grading, etc., 1.3 mi. White Oak Rd. Addition, Contr. 62, and 2.3 mi. Gum Cross Rds.-Laurel Rd. Contr. 63; and grading and paving, etc., 1.9 mi. Smyrna-Wendalls Corner, Contr. CK34, and 4.966 mi., Concord-Hardscrabble, Contr. CS50; adv. E. N.-R. Apr. 15.

Maryland—Apr. 27, by State Rds. Comn., Baltimore, concrete paving Contr. G-32 Garrett Co., Contr. F-88 Frederick Co., and Contr. Wi-36, Wicomico Co.; grading Contr. G-30, Garrett Co.; macadam resurfacing Contr. F-87, Frederick Co.; graveling Contr. C-24, Calvert Co.; Concrete shoulders Contr. M-69 Montgomery Co., Contr. H-3-A Harford Co., and Contr. Ce-10-A, Cecil Co. J. N. Mackall, chn.; adv. E. N.-R. Apr. 15.

Md., Baltimore—Apr. 21, by Bd. Awards, sheet asphalt paving 16,700 sq.yd. Contr. 329, and 18,800 sq.yd. Contr. 330; concrete paving 15,300 sq.yd. Contr. 331, and 11,500 lin.ft. Contr. 332. S. Purcell, City Hall, highways engr.

Fla., New Port Richey — Apr. 20, by Burnes & Becker Realty Co., improving various streets, 19,000 sq.yd. lime rock paving and 18,000 ft. concrete curbing. $30,000.

Miss., Shelby—Apr. 27, by G. R. Roberts, mayor, and Bd. Aldermen, furnishing material and paving various streets. L. W. Mashburn, Shelby, and Southern Eng. Co., Clarksdale, engrs. Noted Nov. 26.

Miss., Walthall—Apr. 20, by Bd. Supervs. Webster Co., c/o Chancery Clerk, improving 3.632 mi. Federal Aid Project 157-B, 43,081 cu.yd. excav., 415 cu.yd. borrow, 39,899 lb. reinforcing, etc. H. C. Dietzer, Jackson, engr.

O., Cleveland—Apr. 21, by Comrs. Cuyahoga Co., paving Edgerton Rd. 6. $34,000. F. Lander, Court House, engr. Noted Dec. 31.

O., Lewisville — Apr. 24, by Village Council, grading, sewers, and slag surfacing Creamery St.; and grading, sewers, surfacing and curbing with slag and Kentucky rock asphalt North Malaga St. E. D. Keylor, clk. Noted Mar. 25.

O., Marion—May 1, by Comrs. Marion Co., widening and lowering road in front Harding Memorial site to conform to general landscaping scheme. $25,000-$30,000.

Mich., Grand Rapids—Apr. 20, by Kent Co., graveling 3.001 mi. Parnell-Murray Lake Rd., 16 ft.

Mich., Hillsdale—Apr. 23, by Hillsdale Co., graveling 4 mi. A. D. Rds. 14 and 15.

Mich., Ionia—Apr. 19, by Ionia Co., Class B graveling 2.57 mi. and Class B-9 graveling 12.572 mi. Ionia Co. Rd.

Mich., Mt. Clemens—Apr. 17, by Macomb Co., concrete paving 4.93 mi. A. D. Rd. 88.

Ill., Flora — Apr. 22, by City, curbing, guttering and paving 25,849 sq.yd. various streets. $110,388.

Ill., Kewanee — Apr. 19, by Bd. Local Impvts., J. H. Andrews, pres., grading, curbing, guttering and rein.-con., granite on concrete, brick, Warrenite or bitulithic paving 10,410 sq.yd. Lexington Ave., 1st and Park Sts. $45,972-$54,374. J. G. Palmer, City Hall, engr. Noted Feb. 25.

Ill., Kewanee — Apr. 19, by Bd. Local Impvts., J. H. Andrews, pres., grading, curbing, sewers and rein.-con., granite on rein.-con., brick or warrenite paving 1,390 sq.yd. George St., $5,800-$6,311; 2,520 sq.yd. Willow St., $10,348-$11,220; 2,160 sq.yd. Helmer St. and Columbus Ave. $8,887-$9,685; 4,360 sq.yd. Grove St., 25,000; and 2,430 sq.yd. Pine St., $10,239-$11,113. J. H. Palmer, City Hall, engr. Noted Jan. 14.

Ill., Lawrenceville — Apr. 26, by City Clerk, City Hall, grading, curbing and concrete paving 16,000 sq.yd. 15th St. R. J. Benefiel, Court House, engr. Noted Mar. 11.

Ill., Peoria — Apr. 19, by Bd. Local Impvts., City Hall, grading and rein.-con. paving 6 blocks Blaine St., 30 ft. $38,205. W. E. Bockes, City Hall, engr.

Ill., Peoria — Apr. 19, by Bd. Local Impvts., C. F. Barston, pres., grading, curbing and rein.-con. paving 8 blocks Greenlawn St., 30 ft. $44,482. W. E. Backes, City Hall, engr.

Wisconsin—Apr. 21, by State Hy. Comn., Div. Office 1, Capitol Bldg., Madison, improving 4.007 mi. Monroe-Juda Rd., Federal Aid Project 417-A, Green Co., 34,985 cu.yd. earth and 7,607 cu.yd. solid rock excav., 49,251 sq.yd. rein.-con. paving, etc.; 4.663 mi. same road, 64,494 cu.yd. earth and 6,490 cu.yd. solid rock excav., 48,560 sq.yd. rein.-con. paving, etc. J. T. Donaghey, ch. engr.

Ia., Algona — Apr. 22, at office Auditor Kossuth Co., grading, etc. Project S-63, 64, 65 and 66, 148,850 cu.yd. excav., etc. H. M. Smith, Algona, co. engr.

Ia., Boone — Apr. 21, at office Auditor Boone Co., gravel surfacing 60 mi. roads in Secondary Road Graveling Dists. J. A. Illman, Boone, co. engr.

Ia., Sibley — Apr. 20, at office Auditor Osceola Co., grading 14 mi. various roads. J. H. Turnbull, Sibley, co. engr.

Ia., Sioux City—Apr. 20, at office Auditor Woodbury Co., gravel surfacing 10.65 mi. Otto-Climbing Hill Rd. J. C. McLain, Sioux City, co. engr.

Ia., Storm Lake — Apr. 20, at office Auditor Buena Vista Co., grading, etc. Primary-Secondary Road Project 77, 47,253 cu.yd. excav.; and Project 78, 21,845 cu.yd. excav. A. H. Cunningham, Storm Lake, co. engr.

Minn., Duluth—Apr. 27, by F. W. Borgen, aud. St. Louis Co., grading, etc., 13 mi. North-Miller Trunk Rd. $200,000; and entrance of Miller Trunk Rd. from Duluth Heights to 6th Ave. at 9th St. $50,000. R. W. Acton, Duluth, co. engr.

Kan., Lyons—Apr. 29 (extended date), grading, concrete or brick paving, etc., 2.064 mi. Federal Aid Project 331-A. S. Ainsworth, Lyons, engr. Noted Mar. 25.

Kan., Manhattan — Apr. 30, by Clerk Riley Co., grading, curbing and vitr. brick paving 13,489 sq.yd. Federal Aid Project 327-A. A. J. Rhodes, Manhattan, co. engr.

Neb., Omaha—Apr. 20, by J. P. Hoctor, city clk., improving streets in Dists. 2583, 2793, 2819, 2946, 2979, 2994 and 2995. H. Beal, City Hall, engr.

South Dakota — Apr. 27, by State Hy. Comn., Pierre, **(F. A. P. means Federal Aid Project, and S. A. P. means State Aid Project)**, grading approximately 270,000 cu.yd. F. A. P. 158-B Clay Co., 54,000 cu.yd. F. A. P. 187-E Gregory Co., 90,000 cu.yd. F. A. P. 194-B, Hand Co., 175,000 cu.yd. F. A. P. 185-F Jones Co., 160,000 cu.yd. F. A. P. 162-C Jackson Co., 100,000 cu.yd. S. A. P. 133 Minnehaha Co., 88,000 cu.yd. F. A. P. 191-E Kingsbury Co., 100,000 cu.yd. F. A. P. 184-C Brule Co., 105,700 cu.yd. F. A. P. 181-B Potter Co., and 61,600 cu.yd. F. A. P. 181-D Dewey Co., 95,000 cu.yd. F. A. P. 183-B, Spink Co.; graveling, etc., approximately 16,700 cu.yd. F. A. P. 161 Hanson Co., 16,400 cu.yd. F. A. P. 166 McCook Co., and 16,400 cu.yd. F. A. P. 15 Lawrence Co. J. C. Botterman, Pierre, highway engr.

North Dakota — Apr. 27, by State Hy. Comn. and Comrs. Morton Co., Court House, Mandan, grading, etc., 14 mi. Federal Aid Project 305-A. C. Christensen, highway comr.

North Dakota — Apr. 28, by State Hy. Comn. and Comrs. Stark Co., Court House, Dickinson, **(F. A. P. means Federal Aid Project)**, grading, etc., 7.838 mi. F. A. P. 260-C; 9.618 mi. F. A. P. 283-B; and 3.801 mi. F. A. P. 260-D. C. Christensen, highway comr.

North Dakota — Apr. 29, by State Hy. Comn. and Comrs. Billings Co., Court House, Medora., grading, etc., 16 mi. Federal Aid Project 283-C, and 4.406 mi. Federal Aid Project 307-B. C. Christensen, highway comr.

North Dakota—Apr. 30, by State Hy. Comn. and Comrs. Golden Valley Co., Court House, Beach, grading, etc., 12.15 mi. Federal Aid Project 307-A. C. Christensen, highway comr.

North Dakota — May 4, by State Hy. Comn. and Comrs. Nelson Co., Court House, Lakota, grading, etc., 5 mi. Federal Aid Project 309-C, and 10.85 mi. Federal Aid Project 294-B. C. Christensen, highway comr.

North Dakota — May 5, by State Hy. Comn. and Comrs. Cavalier Co., Court House, Langdon, grading, etc., 6 mi. Federal Aid Project 292-A. C. Chirstensen, highway comr.

North Dakota — May 6, by State Hy. Comn. and Comrs. Pembina Co., Court House, Cavalier, grading, etc., 10 mi. Federal Aid Project 292-B, and 11 mi. Federal Aid Project 324. C. Christensen, highway comr.

North Dakota — May 7, by State Hy. Comn. and Comrs. Walsh Co., Court House, Grafton, grading, etc., 8.865 mi. Federal Aid Project 322-A, and 10 mi. Federal Aid Project 293-B. C. Christensen, highway comr.

Missouri—Apr. 30, by State Hy. Comn., Jefferson City, concrete paving 4 mi. State and Federal Aid Project, Jackson Co., 18 ft. H. M. Bush, Kansas City, div. engr.

Mo., Kansas City — Apr. 22, by Clerk Jackson Co., concrete paving, etc., 20,257 sq.yd. various roads. L. Koehler, Kansas City, engr.

Texas — Apr. 29, by State Hy. Comn., Austin, clearing grubbing, bridging and grading 15.067 mi. Highway 43, Federal Aid Project 494-A, 26 ft. $140,000. A. F. Mitchell, Cameron, co. engr.

Tex., Boston — Bowie Co. taking bids grading, bridging and gravel surfacing 6.963 mi. Highway 89, State Aid Project 644. $60,000. F. E. Hess, Boston, engr.

Tex., Clarendon—Devlin Eng. Co., engrs., c/o Central Bldg., Amarillo, taking bids and opens same about Apr. 30, hard paving 10,000 sq.yd. various streets, for City. $175,000.

Tex., Dallas — Apr. 22, by C. E. Gross, aud. Dallas Co., grading, bridging and macadam paving 0.4 mi. Cedar Hill Rd., State Aid Project 514-B, 18 ft. $26,500. R. H. Clinger, Dallas, co. engr.

Tex., Henderson—Rusk Co. taking bids grading, bridging, and iron ore surfacing 4.877 mi. Highway 26-A. $42,000. C. R. Newton, engr.

Tex., Henderson—Rusk Co. taking bids grading, bridging and iron ore surfacing 3.522 mi. Highway 64, State Aid Project 648. $36,500. C. R. Newton, Henderson, engr.

Tex., Hondo — Apr. 27, by Walton & Arneson, engrs., c/o Gunter Bldg., San Antonio, 1 in. bituminous surfacing 11.55 mi. Highway 3, Sect. A, $75,000; 1.56 mi. same road Sect. B, $26,000; 10.47 mi. same road Sect. C, $70,000; 7.85 mi. same road Sect. D, $40,000 3.26 mi. same road Sect. E, $28,000, all foregoing 18 ft., for Medina Co.

Tex., Galveston—Apr. 27, by City, improving Sea Wall Blvd., 11,140 yd. brick paving 3,889 yd. sidewalk, 3,820 ft. 8 x 22 ft. concrete curb, 3,965 ft. 9 x 36 in. concrete curb, 612 ft. 9 x 12 in. curb, 199 yd. sand cushion, etc. $45,000. C. C. Washington, Galveston, engr.

Okla., Pryor—May 3, by T. J. Harrison, grading and 6 in. concrete paving 20,187 sq.yd Main St. $67,000. F. C. Seattle, city engr.; adv. E. N.-R. Apr. 15. Noted Jan. 7.

Nevada—Apr. 21, by State Hy. Comn., Carson City, **(R. means Route)**, grading, graveling, etc., 11,700 cu.yd. Wells-Moor Rd., R. 1, Sect. E-2, 4,200 cu.yd. Pequop Summit Rd., R. 1, Sects. E-1 and F, and 4,000 cu.yd. Elko-Silver Zone Rd., R. 1, Sect. G-2, all in Elko Co.; 9,400 cu.yd. Frenchmans-Westgate Rd., R. 2, Sect. E-2, Churchill Co.; and 11,800 cu.yd. road from Holbrook north and south, R. 3, Sects. A-1 and 2, Douglas Co. G. W. Borden, highway engr.

Arizona — Apr. 26, at office W. C. Lefebvre, ch. engr., State Hy. Dept., Phoenix, 2 in. asphalt bituminous or concrete on 4 in. bituminous paving, etc. 42,400 sq.yd. Federal Aid Project 82-A, Yuma-Gila Bend Highway.

Washington — Apr. 27, by State Hy. Comn., Olympia, **(S. R. means State Road)**, grading, etc., 7.6 mi. S. R. 8, Yakima Co.; concrete paving, etc., 6.3 mi. S. R. 9, Federal Aid Project 138-B, Clallam Co., and 5.3 mi. S. R. 2, Federal Aid Project 142-C, King Co.; also crushed rock resurfacing, etc., 7,300 cu.yd. S. R. 12, Lewis and Pacific Counties; and constructing substructure for Yakima River Bridge on S. R. 3, incl. two 23 ft. wing wall abutments, one 30 ft. pier, 450 cu.yd. rein.-con., etc. J. W. Hoover, Olympia, ch. engr.

Wash., Chehalis — Apr. 23, by Comrs. Lewis Co., improving 5 mi. Onalaska Rd., Permanent Highway 14, 25,000 cu.yd. excav., 12,000 cu.yd. sta. overhaul, 11,000 cu.yd. crushed gravel surface, etc. $40,000. R. L. Greene, Chehalis, engr.

Wash., Seattle—Apr. 26, by Comrs. King Co., grading, etc., 11,000 cu.yd. Permanent Highway 41. $95,000. T. R. Beeman, Seattle, engr.

California—Apr. 26, by State Hy. Dept., Sacramento, asphaltic concrete surfacing and widening 2.8 mi. road between point 1 mi. south of Delano and northerly boundary, Kern Co. R. M. Morton, Forum Bldg., Sacramento, engr. Noted Apr. 8.

Calif., Inglewood — O. H. Duelke, city clk., taking bids improving Lime St. between Oak and Cedar Sts., 97,040 sq.ft.

Streets and Roads (Continued)

grading, 15,170 sq.ft. oiled roadway, 39,880 sq.ft. 5 in. oil macadam paving, etc. W. Peffer, city engr.

Calif., Los Angeles—Bd. Pub. Wks. taking bids 10 in. concrete paving, etc., 174,500 sq.ft. east half of Cahuegna Pass Rd. Noted Mar. 25.

Calif., San Carlos — Apr. 26, by Town Trustees, improving various streets, 5,000 cu.yd. excav., 60,000 sq.ft. 6 in. waterbound macadam paving 175,000 sq.ft. 2 in. asphaltic concrete surfacing, 56,500 sq.ft. 6 in. concrete paving, etc. G. A. Kneese, Courthouse, Redwood City, engr.

Bids Received

R. I., Warwick — Metropolitan Park Comn., Providence, Apr. 3, improving 1.6 mi. Narragansett Parkway from Spring Green Rd. to Bayside Ave. here, from Warren Landscape & Eng. Co. Warwick Neck, Warwick, gravel $23,603; and from New Haven Road Constr. Co., 70 Hill St., New Haven, Conn., macadam $61,468. Noted Apr. 1.

Connecticut — J. A. Macdonald, comr. State Hy Dept., Hartford, Mar. 30, rein.-con. paving, etc., 28,718 ft. Middletown-New Haven Rd. in Middletown and Durham, from F. Arrigoni & Son, Inc., 624 Main St., Middletown, $214,647, 1,650 ft. Broad Brook-Ellington Rd. in West Windsor, from Lane Constr. Co., 37 Colony St., Meriden, $11,097, and 19,316 ft. Willimantic-Putnam Rd. in Chaplin and Windham, from J. Arborio, 59 Center St., New Haven, $137,141; 7 in. native stone macadam paving 25,000 ft. Hartford-Tolland Turnpike in Vernon and Tolland, from E. L. Gobeille Inc., 1147 Main St., Worcester, Mass., $86,641; grading, etc., 8,380 ft. Boston Post Rd. in Guilford, from A. G. Bianchi & Co., 98 Lincoln Park, Longmeadow, Mass., $33,837; grading and approaches on Old Saybrook Grade Crossing elimination in Old Saybrook, from L. E. McLaughlin, 200 Jefferson Ave., New London, $53,614; grade crossing elimination in Plainfield, from J. Lorrenzi, 7 Main St., Leominster, Mass., $36,658; and 12 ft. span rein.-con. box culvert and grading in South Main St. in Windsor Locks, from A. DeMarco, 59 East Main St., Plainville, $19,433.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, Apr. 7, sheet asphalt repaving Utica Ave., etc. and in various streets damaged by subsurface work, from Uvalde Asphalt Paving Co., 1 Bway., New York City, $24,689 and $15,750 respectively; granite repaving Myrtle Ave., and Washington St., etc., from Leonard Paving Co., 233 Bway., $122,121; asphalt resurfacing by heater method various streets, from Cranford Co., 52 9th St., $195,574; and asphalt repaving Pierrepont St., from Sicilian Asphalt Paving Co., 41 Park Row, New York City, $2,396. Noted Apr. 1.

N. Y., New York—W. J. Flynn, acting pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., Apr. 8, from Asphalt Constr. Co., 208 Bway., granite block paving St. Ann's Ave. $161,806, St. Anns Ave., Rae St., etc., $99,716, East 163rd St. $108,203, Bergen Ave. $30,028, and Kingsbridge Rd. $95,424, from J. Meehan & Son, 90 West St., Ogden Ave. 131,041, from St. George Paving Co., 90 West St., East 149th St. $33,786; from Burnside Contg. Co., 270 Burnside Ave., asphalt block repaving East 167th St. $48,715. Noted Apr. 1.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Apr. 9, repaving Hylan Blvd., from Vanbro Constr. Corp., 24 Elizabeth St., West New Brighton, $121,997. Noted Apr. 8.

New Jersey—State Hy. Comn., Trenton, Apr. 12, grading and rein.-con. paving Route 2, Sect. 9, Pensauken Creek to Union Schoolhouse, Camden Co., from W. Eisenberg, Smith-Austermuhl Blk. Camden, $106,134; Route 17, Sect. 1 from Hackensack to Rutherford, Bergen Co., from H. Shapiro Constr. Co., Inc., Albany, N. Y., $165,930. Noted Apr. 1.

Maryland—State Rds. Comn., Baltimore, concrete shoulders on 5 mi. Contr. K-1-A, Kent Co., from Kaufman Contg. Co., Denton, $25,536, 5 mi. Contr. B-20-C, Baltimore Co., from H. T. Campbell Sons Co., Towson $38,950, and 6.5 mi. Contr. A-2-C Allegany Co., from S. T. Brotemarkle, Cumberland, $43,510; concrete paving 1.2 mi. Contr. WO-46, Worcester Co., from Hanneman-Burroughs Co., Salisbury $31,770, 2.35 mi. Contr. D-29, Dorchester Co., from Layfield & Waller, Quantico $39,391, 0.78 mi. Contr. H-41, Harford Co., from Sutton Contg. Co., Phila., Pa. $26,013, and 1.43 mi. Contr. CL-60, Carroll Co., from Adams & Marino, Old Town Bank Bldg., Baltimore, $46,149. Noted Mar. 25.

Maryland—State Rds. Comn., Baltimore, Mar. 30, concrete paving 2.27 mi. Contr. B-67, Baltimore Co. from H. T. Campbell & Sons Co., Towson $52,877, 1 mi. Contr. Q-35 Queen Annes Co., and 0.95 mi. Contr. CO-38, Caroline Co., from P. D. Phillips, Salisbury, $16,836 and $15,164 respectively; 0.91 mi. Contr. AA-46, Anne Arundel Co., from Ward & O'Connell, New Amsterdam Bldg., Baltimore $15,029, and 1.7 mi. Contr. S-25, Somerset Co., from Roberts Paving Co., Salisbury $59,447; concrete shoulders on 7.33 mi. Contr. B-15-A, Baltimore Co. from Catalano & Picora Contg. Co., Knickerbocker Bldg., Baltimore $45,628, and 6.8 mi. Contr. F-5-B, Frederick Co., from E. C. Valentine, Rocky Ridge, $50,578.

Md., Baltimore—Bd. Awards, sheet asphalt paving 12,530 sq.yd. Contr. 323, from P. Flanigan & Sons, Harford Rd. and Baltimore and Ohio R.R. tracks $61,140, and 10,900 sq.yd. Contr. 324, from Baltimore Asphalt Block & Tile Co., 1320 Monroe St. $52,391; also concrete paving 5,570 sq.yd. Contr. 325, from Arundel Constr. Co., Knickerbocker Bldg., $15,993. Noted Apr. 8.

Md., Towson—Comrs. Baltimore Co., concrete paving 1.05 mi. roads in Group 4, Mace and Chesaco Aves., from P. Reddington & Sons, 2 East Lexington St., Baltimore, $26,271. Noted Apr. 8.

North Carolina—State Hy. Dept., Raleigh, Mar. 30, grading, concrete or asphalt paving etc., 13.73 mi. Project 550, Hoke Co., from R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh $266,402, 9.66 mi. Project 4350, Granville Co., from Gregory & Wiesiger, Pittsboro $252,612, 4.76 mi. Project 9060, Buncombe Co., from R. C. Stevens, Asheville $146,784, 5.41 mi. Project 886, Rutherford Co., from Wilson Constr. Co., Rutherfordton $172,166, 7.65 mi. Project 112, Camden Co., from Lawrence & Brooks, Norfolk, Va. $229,659, and 6.04 mi. Project 6690, Rowan Co., from R. Martin Co., Salem, Va. $148,444; clearing, grubbing, grading, etc., 11.55 mi. Project 244, Jones Co., and 8.34 mi. Project 135, Halifax Co., from N. L. Teer, Durham, $87,012 and $43,998 respectively, 13.36 mi. Project 685, Stanly Co., from Atlantic Paving Co., Salisbury $72,540, 11.11 mi. Project 591, Rockingham Co., from G. F. Cornatzer, Winston-Salem $55,727, 10.51 mi. Project 398, Robeson Co., from H. M. Beaseley, Lumberton $40,099, and 11.51 mi. Project 480, Wake Co., from C. B. Hester, Greensboro $50,634; clearing, grubbing and topsoiling, etc., 7.6 mi. Project 574, Montgomery Co., from J. K. Cecil, Lexington, $39,247. Noted Mar. 18.

Louisiana—State Hy. Dept., Baton Rouge, Apr. 6, graveling 3.025 mi. Hammond-New Orleans Highway, State Project 127 E, St. John the Baptist Parish, from W. C. Perry, Baton Rouge, $162,771. Noted Mar. 11.

Tenn., Knoxville — City, F. A. Ault, recdr., Mar. 31, paving various streets, from Murray Constr. Co., 531 South Gray St., $226,535; curbing, guttering, sidewalks on various streets, from Flenniken Constr. Co., Knoxville, $78,371. Noted Mar. 18.

O., Cincinnati — Comrs. Hamilton Co., Apr. 2, (**e. e. means engrs. est.**), from Pickelheimer & Sloan, 406 Palace Theatre Bldg., grading and tar bound macadam repaving 16,900 sq.yd. State Rd. $35,960 e. e. $39,835, and 14,400 sq.yd. Old Indian Hill Rd. $30,603 e. e. $33,630; from J. S. Sloan, 2312 Mound Ave., Norwood, 10,400 sq.yd. Creek Rd. $21,800 e. e. $25,000, 31,200 sq. yd. Plainfield Rd. $64,823 e. e. $73,000, and 20,000 sq.yd. Deerfield Rd. $42,380 e. e. $48,810. Noted Mar. 25.

Ind., Evansville — Making surveys and estimates probably sheet asphalt paving Hartz Ave. and Mary St. $50,000-$60,000. G. Pfafflin, city engr.

Ill., Decatur—Bd. Local Impvts., Mar. 31, grading, curbing and asphalt paving 7 blocks East Eldorado St., 40 ft., from Birt & Driscoll, Citizens Bank Bldg., $53,740. Engrs. est. $49,237. Noted Jan. 14.

Illinois—State Dept. Highways & Pub. Wks., Springfield, Mar. 31, concrete paving 7.3 mi. Route 16 Sects. 23- and 23-T, Macoupin and Madison Counties, from W. F. Smith Co., Rennsalaer, Ind., $122,486, 0.75 mi. Route 9, Sect. 30, Hancock Co., from Cameron, Joyce, Smith & Eddie Co., Keokuk, Ia., $16,370, 7.39 mi. Route 31, Sect. 14, Schuyler Co., from M. Hayes & Sons, 209 South La Salle St., Chicago, $150,717, 4.06 mi. Route 31, Sect. 17, Fulton Co., from H. A. Carpenter, Brazil, Ind., $114,826, 0.38 mi. Route 16, Sect. 12-X, Shelby Co., from W. F. Sell, Pana, $7,693, 17.86 mi. Route 40, Sects. 10 and 11, Jo Daviess Co., from Harnson Eng. & Constr. Co., Kansas City, Mo., $349,998, 0.53 mi. Route 19, Sect. 86-W-2, Cook Co., from I. I. Dunnegan Constr. Co., Shenandoah, Ia., $11,966, 5.6 mi. 38, Sect. 6, Jersey and Green Counties, from G. A. Hackett, Decatur, $118,010, concrete paving and 4 ft. widening 17.98 mi. Route 30, Sects. 1, 2, 7 and 8, Peoria Co., from Harrison Eng. & Constr. Co., 506 Mutual Bldg., Kansas City, Mo., $344,639, all above 18 ft.; 3 ft. widening 0.11 mi. Route 4, Sect. 15-2, Macoupin Co., from Edwardsville Constr. Co., Edwardsville, $576; grading 0.38 mi. Route 38, Sect. 3-A, Jersey Co., and 0.5 mi. Route 12, Sect. 17-V-1, Marion Co., from Smith Bros. Constr. Co., Decatur, $32,142 and $18,848 respectively, 1.36 mi. Route 1, Sect. 42-A, Saline Co., from Keeting Bros., Auburn, $15,781, and 0.64 mi. Route 12, Sect. 13-A, Jackson Co., from Hamilton Hoffman Constr. Co., Carbondale, $16,794. Noted Mar. 18.

Wisconsin—State Hy. Dept., at Office 4, Citizens Natl. Bank Bldg., Wisconsin Rapids, Apr. 1, grading, concrete paving, etc., 27,106 sq.yd. Federal Aid Project 331-B, Green Lake Co., from Wausau Iron Wks., Wausau, $94,818. Noted Mar. 25.

Wis., Wauwatosa—Bd. Pub. Wks., A. Brigham, secy., Apr. 2, 30,700 ft. rein.-con. paving, etc., North Ave. between Swan Rd. and Spring Ave., from Jacobus & Winding Constr. Co., 1 State St., $78,053. Noted Mar. 25.

Minn., St. Paul — A. E. Eggert, city purch. agt., Mar. 30, oil asphalt paving Hamline Ave. between Hewitt and University Aves., and Burr St. between Collins and Jenks Sts., from Hanlon & Oakes, 1501 Merchants Natl. Bank Bldg., $32,633 and $37,600 respectively. Noted Mar. 25.

Kan., Holton—Clerk Jackson Co., grading 11.855 mi. Federal Aid Project 281-A, B, C, D and E, from Tibbets & Tibbets, Kansas City, $49,174. Noted Mar. 4.

Missouri — State Hy. Comn., Jefferson City, Mar. 19, from Hamilton Hoffman Co., Carbondale, Ill., grading 4.455 mi. road from La Plata north and south $2,568, 4.17 mi. road from La Plata south $2,035, both in Macon Co., 2.924 mi. Millard-La Plata Rd. $1,350, 2.879 mi. Lancaster-Macon Rd. $1,382, both in Adair Co., from Metropolitan Paving Co., St. Joseph, 1.095 mi. Stanberry-Albany Rd., Gentry Co. $4,802, from McMeneeley Co., Decatur, Ill., 4.919 mi. Mercer-Princeton Rd. $2,903, 2.695 mi. Princeton-Trenton Rd. $1,784, and 2.476 mi. Mercer-Lineville Rd. $1,578, all in Mercer Co., from W. P. McGeorge & Co., Pine Bluff, Ark., 4.445 mi. road from Washington south, Franklin Co. $23,132, 3.191 mi. road from Fulton north, Callaway Co. $18,847, and 3.199 mi. same road $24,652, from J. L. Wells Co., Rock Island, Ill., 3.92 mi. La Plata-Macon Rd., Macon Co. $10,434, and 3.796 mi. same road $12,025, from S. J. Groves & Sons Co., Minneapolis, Minn., 4.949 mi. road from Ava east $57,222, 4.583 mi. road from Ava north $35,157, both in Douglas Co., 1.764 mi. road from Bruhwest, Iron Co. $42,514, grading and 9 ft. concrete paving 4.053 mi. Iowa State Line-Bethany Rd. $47,922, and 4.025 mi. same road $50,776, all in Harrison Co.; from J. M. Roarke & Son, Anderson, 30 ft. grading 4.887 mi. Cass Co. Line-Adrian Rd. $25,895, and 3.75 mi. Kansas City-Joplin Rd. $14,242, both in Bates Co., from Carter-Harlan Constr. Co., West Plains, 4.886 mi. Cabool-Howell Rd., Texas Co. $42,965, from Winstead & Gunter, Siloam Springs, Ark., 4.072 mi. Adrain-Butler Rd. $18,176, and 3.553 mi. road from Butler north and south $12,761, both in Bates Co., from M. E. Gillioz, Monett, 4.369 mi. Clever-Nixa Rd., Christian Co. $52,911, from L. W. Spengler, Kansas City, 0.734 mi. Boonville-Bellair Rd., Cooper Co. $6,532, from N. C. Cossetta & G. A. Nichols, Oklahoma City, Okla., 4.136 mi. road from Warrensburg north, Johnson Co. $35,073, from C. I. Williams, Monett, 4.142 mi. Clever-Nixa Rd., Christian Co. $22,487; from J. R. Burner, Oblong, Ill., 18 ft. gravel surfacing 4.243 mi. Fair Play-Humansville Rd., Polk Co. $24,456, from C. K. Kost, Joplin, 3.769 mi. Pomona-West Plains Rd., Howell Co. $10,636, 2.802 mi. same road $11,707, 4.109 mi. road from West Plains west, Howell Co. $8,462, and 3.563 mi. Pomona-West Plains Rd., Howell Co. $13,938, from Hannibal Constr. Co., Hannibal, 4.253 mi. road from Canton north, Lewis Co. $42,382, and 4.034 mi. same road $30,775, from H. A. Worman, Pittsfield, Ill., 4.318 mi. Brunswick-Keytesville Rd., Chariton Co. $6,362, and 2.06 mi. same road $7,361; from C. L. Johnson, Warrensburg, 18 ft. chat surfacing 2.419 mi. road from Ash Grove west, Greene Co. $38,198; from Des Moines Asphalt Paving Co., 2nd and New York Sts., Des Moines, Ia., 9 ft. concrete paving 2.695 mi. Princeton-Trenton Rd. $16,898, 2.476 mi. Lineville-Mercer Rd. $15,428, and 4.919 mi. Mercer-Princeton Rd. $30,649, all in Mercer Co., from Joseph Kesl & Sons, Edwardsville, Ill., 3.796 mi. La Plata-Macon Rd., $22,651, 2.92 mi. same road $23,391, and 4.17 mi. road from La Plata south, $24,885, all Macon Co., from P. Simons, Quincy, Ill., 2.924 mi. Millard-La Plata Rd. $17,369, and 2.879 mi. Lancaster-Macon Rd. $17,100, both Adair Co., also 9 and 18 ft. concrete paving 4.455 mi. road from La Plata north and south, Macon Co. $29,853; from Robertson, Carmen Constr. Co., Caruthersville, 18

Streets and Roads (Continued)

ft. concrete paving 3.199 mi. road from Fulton north, Callaway Co. $38,233, from C. H. Atkinson Paving Co., Watertown, S. D., 1.095 mi. Stanberry-Albany Rd., Gentry Co. $16,190, from Harrison Eng. & Constr. Corp., 506 Mutual Bldg., Kansas City, 4.445 mi. road from Washington south, Franklin Co. $56,775, from E. J. Eiff Co., Quincy, Ill., 3.101 mi. road from Fulton north, Callaway Co. $36,686, and from DuBois & Co., Pittsburg, Kan., 1.12 mi. Lamar Rd., Route 1, Barton Co. $17,647, also grading 1.12 mi. same road $12,874. Noted Mar. 11.

Tex., Huntsville — Grading and bridging 17.27 mi. Highway 45, State Aid Project 664-B, from Smith-Boyette Co., Bryan, $74,-016. Noted Mar. 11.

Wash., Seattle—Bd. Pub. Wks., Mar. 26, grading, etc., 35,000 cu.yd. Alaska St., from J. Otteson Co., Inc., 2523 32nd St. S., $29,-555; and concrete paving, etc., 32nd Ave. N. W. et al, from Florito Bros., 3950 6th St. N. W., $110,875.

Calif., Los Angeles — From Brockman & O'Brien, 1556 Murray Ave., improving Fargo St. between Alvarado and Allesandro Sts., grading $14,900, 98,580 sq.ft. 5 in. concrete paving $0.205 per sq.ft., etc., total $51,870; from J. M. Shull, Riverside, 70th St. between Hoover and Vermont Aves., grading $1,900, 115,478 sq.ft. concrete paving $0.16 per sq.ft., etc., total $31,250.

Calif., Los Angeles — Supervs. Los Angeles Co., Mar. 29, curbing, guttering, walks and grading 3,851 cu.yd. portion of Ocean Ave., Co. Impvt. 416, from G. H. Oswald, 366 East 58th St., $37,452; grading 6 and 8 in. concrete paving, etc. portions of College and Ocean Aves., from G. R. Curtis, 2440 East 26th St., $105,385. Noted Mar. 18.

Calif., San Diego—Common Council, Apr. 5, from Griffith Co., 25 14th St., improving Arch St., Monroe and Meade Aves., 143,565 sq.ft. 4 in. Warrenite paving $0.188 per sq. ft., 14,661 sq.ft. concrete sidewalk $0.215, 2,438 lin.ft. concrete curbing $0.65, etc., total $38,373. Noted Feb. 4.

Alta., Calgary—See "Contracts Awarded."

Contracts Awarded

N. J., Trenton—Mercer Co., Courthouse, cold application of tar, etc. approximately 50 mi. various roads, to Good Roads Co., Upper Darby, Pa., $27,214. Noted Apr. 8.

Pennsylvania—State Hy. Comn., Harrisburg, (**R. means Route and A. means Application**), rein.-con. paving, etc., 5,306 sq.yd. R. 44, A. 13933, Adams Co., to W. Grant Raub, Red Lion, $19,338, 16,766 sq.yd. A. 3642, Beaver Co., to D. W. Challis & Sons, Sewickley, $67,810, 41,708 sq.yd. R. 235, A. 2860, Columbia Co., to Lane Constr. Co., 37 Colony St., Meriden, Conn., $220,748, 17,309 sq.yd. A. 3794 and 3525, Jefferson and Clearfield Counties, to Metzger-Kirkpatrick & Wallis, Emporium, $62,245, and 25,536 sq.yd. A. 3855, Dauphin Co., to Swanger & White, Lebanon, $100,844; also grading, etc., 86,300 cu.yd. R. 219, Sect. 3, Clearfield and Canter Counties, to Edwards Dunn Co., Greensburg, $116,747. Grand total $587,732. Noted Apr. 1.

Maryland—State Hy. Comn., Baltimore, concrete paving 2.69 mi. Contr. HO-41, Howard Co., to M. J. Grove Lime Co., Lime Kiln, $54,225, 0.91 mi. Contr. AA-46, Anne Arundel Co., to Ward & O'Connell, New Amsterdam Bldg., Baltimore, $15,029, 0.95 mi. Contr. CO-38, Caroline Co., and 1 mi. Contr. Q-35, Queen Anne's Co., to P. D. Phillips, Salisbury, $15,164 and $16,836 respectively, 1.7 mi. Contr. S-25, Somerset Co., to Roberts Paving Co., Salisbury, $59,-447, and 2.27 mi. Contr. B-67, Baltimore Co., to H. T. Campbell & Sons Co., Towson, $52,877; concrete shoulders on 7.35 mi. Contr. B-15-A, Baltimore Co., to Catalano & Picora Contg. Co., Knickerbocker Bldg., Baltimore, $45,628, and 5.33 mi. Contr. M-1-A, Montgomery Co., to Gosnell, Russell Co., Frederick, $36,188. Grand total $295,394. Noted Mar. 18.

Md., Baltimore — Flushing surfaces of roads and streets during year 1926, to J. Gibbons, 2709 Allendale Ave. $50,100.

Md., Baltimore — Sheet asphalt paving 18,500 sq.yd. Contr. 317, to P. Flanigan & Son, Harford Rd. and Baltimore & Ohio R.R. tracks, $84,423; 9,080 sq.yd. Contr. 318, to Amer. Paving Co., Monebello Ave., $45,680; 12,400 sq.yd. Contr. 319, to Arundel Contg. Co., Knickerbocker Bldg., $33,692. Grand total $163,795. Noted Apr. 1.

W. Va., Huntington — Cabell Co., to Harrison & Dean, Old Walton Bldg., concrete paving 1.1 mi. Long Branch Rd., Project 15 $29,560, 1 mi. Mt. Union Rd., Project 14 $29,102, also 1.95 mi. McCoy Rd. and Norway Ave., Projects 13 and 16 $45,-780; to Hatfield Constr. Co., 418½ 10th St., 2.5 mi. Prices Cook-Wayne Co. line Rd., Project $12, $82,714, all 16 ft. Noted Mar. 11.

North Carolina — State Hy. Dept., Raleigh, clearing, grubbing, grading, etc., 11.51 mi. Project 664, Richmond Co., to W. C. Carter, Mebane, $79,545. Noted Feb. 18.

Fla., Groveland—Brick paving 28 blocks various streets, to J. B. McCrary Co., Citizens & Savings Bank Bldg., Atlanta, Ga., $111,393.

Miss., Biloxi—Bd. City Comrs., asphaltic concrete and sheet asphalt paving Bay View Terrace, 1st, 2nd, West George, Sartini, Thelma, St. Charles, St. John and St. Peter Sts., Father Ryan, Wilkes and Forest Aves., to Southern Paving Constr. Co., Volunteer Life Bldg., Chattanooga, Tenn., $474,943; concrete paving Hopkins St. and Collins Ave., to A. H. Alvis, New Orleans, La., $8,136. Noted Mar. 11.

Miss., Louisville — Grading, curbing, guttering, sewers and brick on concrete paving 8,500 sq.yd. various streets, to Merrill Eng. Co., Jackson, $30,000.

Ohio—Dept. Hys. & Pub. Wks., Columbus, grading and brick on concrete paving, etc. 4.709 mi. Sect. "A" Cleveland-West Richfield Rd. 20 ft., to Steudebaker & Son, Greenville, $255,104. Noted Apr. 1.

O., Cleveland—Comrs. Cuyahoga Co., improving Mackenzie Rd. 2, 6,800 lin.ft. concrete curbing, 6,800 lin.ft. 4 in. tile drain gutter, 2,300 cu.yd. earth excav., and 6,800 sq.yd. concrete paving, to Good Constr. Co., Leader-News Bldg., $24,507.

Mich., Mason—Ingham Co., 16 ft. gravel surfacing 3.506 mi. Alaidon-Meridian Rd. 6, to Sadler & Rector Co., Williamston, $28,420.

Mich., River Rouge (br. Detroit)—For 8 in. vibrolithic paving 60,000 sq.yd. Anchor St., Visger, Bromley, Morrow, Holford, Frazier, Campbell, and Brownlee Aves., to R. J. Powelson Co., 6530 Epworth Blvd., Detroit, $225,000. Noted Apr. 1.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, to L. B. Dyer Constr. Co., Hooperston, concrete paving Route 18, Sect. 48, Peoria, Knox and Fulton Counties $93,505, to Casey Constr. Co., Casey, Route 11, Sect. 40, Madison and Bond Counties $131,928, to Madison Constr. Co., Edwardsville, Route 34, Sects. 1 and 2, Saline Co., $257,000, Route 34, Sect. 3, Pope and Hardin Counties $110,595, to Smith Bros. Constr. Co., Route 34, Sect. 4, Hardin Co. $134,337, Route 34, Sect. 5, Hardin Co., $130,000, to Hamilton-Hoffman Constr. Co., Carbondale, Route 34, Sect. 6, Pope and Hardin Counties $136,726, and Route 34, Sect. 7, Pope Co. $96,987, to W. D. Lonergan Constr. Co., Streator, Route 40, Sect. 5, Carroll Co. $145,398, Route 40, Sect. 7, Carroll and Whitesides Counties $164,242, Route 40, Sect. 8, Whiteside Co. $93,131 and grading Route 40, Sect. 5 A, Carroll Co. $16,158. Grand total $1,510,016. Noted Jan. 14 and Mar. 4.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, grading, curbing, guttering, sewering and asphalt on 6 in. concrete paving North Frisco Ave. from Lawrence to Ainslie St., and Howard St. from Ridge Rd. to North Western Ave., to Contracting & Material Co., 844 Rush St. South May St. from West 75th to West 76th Sts., East 70th St. from Kenwood to Creiger Aves., grading, curbing, guttering, sewering and 2 in. asphaltic concrete paving West 109th Pl. from Vincennes to South Racine Aves., and South Winchester Ave. from West 78th to West 79th Sts., to Amer. Asphalt Paving Co., 33 West Washington St.; grading, curbing, guttering, sewering and 10 in. concrete paving Grove St. from West 22nd St. to Railroad Subway, to J. A. Ross & Co., 4561 Armitage St.; grading, curbing, guttering, sewering and asphalt on 6 in. concrete paving South Mansfield Ave. from Railroad Ave. to West Roosevelt Rd., Arthington and Fillmore Sts. from South Menard to South Mayfield Aves., curbing, guttering, sewering and removing present paving down to concrete foundation brought to grade with asphalt binder West Madison St. from Crawford to Cicero Aves., to White Paving Co., 1735 Fulton St.; grading, removing trees, curbing, guttering, sewering and cleaning present paving and 1½ in. asphalt resurfacing Morse Ave. from Sheridan Rd. to North Ashland Blvd., to J. V. McCarthy Co., 77 West Washington St.; grading, curbing, guttering, sewering, filling and 2 in. asphalt on 6 in. concrete paving Harper and Dorchester Aves., from East 87th to East 90th Sts., Blackstone and Dante Aves. from East 87th to East 91st Sts., Kenwood Ave. from East 87th to East 89th Sts., Kimbark Ave. from East 87th to East 88th Sts., East 88th St. from Stoney Island to Kimbark Aves., East 89th St. from Stoney Island to Kenwood Aves., and East 90th St. from Stoney Island to Dorchester Aves., to Conway Paving Co., 844 Rush St.; grading, sewering and 7 in. concrete paving roadways and alleys between Howard St., Sheridan Rd., Birchwood and Greenview Aves., between Berteau, Belleplane, and North Maplewood Aves., and North Rockwell St., between Montrose, Cullom, North Claremont and North Western Aves., between Bloomingdale, Wabansia and Kimball Aves., and Ballou St., between Bloomingdale Ave., Cortland, Girard and North Wood Sts., between Fullerton, Milwaukee and North Sacramento Aves. and Darwin Terrace, between West Roosevelt Rd., West 13th St. South Kildare and South Kolin Aves., between Elston, Berteau, North Harding and North Crawford Aves., between Cortez and Augusta Sts., Washtenaw and North California Aves., between West 64th, West 65th, South Lincoln and South Honore Sts., between East 65th St., East Marquette Rd., St. Lawrence and Champlain Aves., between East 66th St., Vernon Ave. and East Marquette Rd., between West 66th Pl., West 67th St., South Homan and South St. Louis Aves., between East 68th and East 69th and East 70th Sts., Chappel and Clyde Aves., between East 75th, East 76th Sts., Merrill and Paxton Aves., between East 75th and East 76th Sts., Essex and Kingston Aves., between East 75th and East 76th, Phillips and Essex Aves., between East 76th and East 77th, Phillips and Essex Aves., between East 77th and East 78th Sts., Essex and Phillips Aves., between East 77th and East 78th Sts., Essex and Kingston Aves., between West 87th and West 88th Sts., South Union and Emerald Aves., and between East 109th and East 110th Sts., South Park and Vernon Aves., to Paramount Constr. Co., 82 West Washington St., between Benard St., Belmont, Barry and Kimball Aves., and between Montrose, Cullom, Drake and North Central Park Aves., to P. J. O'Brien & Co., 4 North Cicero St., between East 74th and East 75th Sts., Paxton and Luella Aves., to J. Dillon & Co., 6601 Sheridan Rd. Noted Mar. 18 and 25.

Ill., Lake Forest — Vibrolithic concrete paving various streets in "Hields Lake Forest Ravine Park," to Jaicks Bros., 107 North Clark St., Chicago, $46,355. Noted Mar. 18.

Ill., Rockford—Bd. Local Impvts. (**e. e. means engineers estimate**), grading, curbing, sewers and macadam paving 1 block Bohm St., 29 ft., to Northern Illinois Supply Co., Rockford, $4,000 e. e. $5,000; grading, curbing, sewers and concrete paving 3.5 blocks Underwood St., 30 ft., to F. N. Johnson, 1821 Harlem Blvd., $20,000 e. e. $25,-000, 6 blocks Crosby St., 31 ft., to A. E. Rutledge, Mead Bldg., $37,000 e. e. $40,-000, and 10 blocks North Rockford Ave., Welty and Dawson Sts., 40 ft., to Milburn Bros., 18th and Charles Sts., $70,000 e. e. $81,680. Grand total $131,000. Noted Jan. 14.

Wisconsin — State Hy. Dept., Madison, grading, concrete paving, etc., 37,362 sq.yd. Kewaunee-Manitowoc Rd., Project 367-A, Kewaunee Co., to Jorgenson Constr. Co., Denmark, $99,690; 36,996 sq.yd. Shawano-Bonduel Rd., Project 345-B, Shawano Co., to Koepke Bros., Appleton, $69,332; and 101,596 sq.yd. Oshkosh-Fremont Rd., Project 393-A, Winnebago Co., to M. Martin, Berlin, $267,628. Grand total $436,650. Noted Mar. 18.

Wisconsin—State Hy. Dept., Madison, to Bossert Coal Co., Wisconsin Rapids, concrete paving 8,905 sq.yd. Wisconsin Rapids-Randolph Rd., Job 4274, $23,645, 12,827 sq. yd. Blenker-Sherry Rd., Job 4267, $36,586, and 10,274 sq.yd. Hewitt Rd., Job 4268, $27,886, all in Wood Co.; also to Colburn & Thurston, Anoka, Minn., gravel surfacing 15.21 mi. Kilbourn-Wisconsin Rapids Rd., Federal 394-A, Adams Co., $153,051. Grand total $241,168. Noted Mar. 18.

Ia., Elkador—Clayton Co., to J. Brown Constr. Co., Madison Lake, Minn., improving Federal Aid Project 166, 98,821 cu.yd. excav. at $0.255 per cu.yd., 992 ft. 15 in. culvert labor $0.30, 304 ft. 18 in. and 150 ft. 24 in. culvert labor $0.40 each.

Ia., Monona—Curbing, guttering and concrete paving 14,600 sq.yd. various streets, to Flinn Paving Co., Sioux City, $38,447. Noted Mar. 18.

Ia., Sac City—Sac Co., improving 20.5 mi. roads in Dists. 20, 21 and 22, 24,885 cu. yd. gravel and 124,560 yd. ½ mi. overhaul, etc., to H. Miller, Hartley.

Ia., Sigourney—Keokuk Co., to McAndrew & Hannah, Keokuk, grading, etc., Primary Rd. 2, 86,334 cu.yd. excav. at $0.30 per cu.yd., 1,600 cu.yd. channel change $0.38, 1,000 cu.yd. approach excav. $0.35, 80,000 sta.yd. overhaul $0.02, 1,020 ft. 18 in. culvert pipe hauled and placed $0.40, and 220 ft. 30 in. $0.60. Noted Apr. 8.

Minnesota — State Hy. Dept., St. Paul, (**F. A. P. means Federal Aid Project, and S. P. means State Project**), paving 70,942 sq.yd. S. P. 3-45, Sect. 3, F. A. P. 363, and 77,760 sq.yd. S. P. 3-45, Sect. 4, F. A. P. 25, to Western Asphalt Paving Corp., 1st and Nebraska Sts., Sioux City, Ia., $217,-034; asphaltic concrete paving 67,692 sq.yd. S. P. 10-39, F. A. P. 382, to Hanlon &

Streets and Roads (Continued)

Okes, 1501 Merchants Bank Bldg., St. Paul, $152,167; grading, etc., 190,000 cu.yd. S. P. 6-40, Sect. 2, F. A. P. 349, to Strom Constr. Co., Gary, $62,487, and 60,000 cu.yd. S. P. 3-34, Tenstrike-Hines Rd., to Nelson, Mullen & Nelson, 355 Temple Court Bldg., Minneapolis, $36,871; also grading and bridging 342,000 cu.yd. S. P. 5-31, and S. P. 37-21, Sect. 3, F. A. P. 376, to Nolan Bros., 18 North 2nd St., Minneapolis, $144,282, and $62,024 respectively. Grand total $674,865. Noted Apr. 1.

Minn., Forest Lake—L. P. Melostad, village reedr., 7-8 in. paving approximately 13,000 sq.yd. various streets, to C. F. Scullley Equipment Co., 212 Dakota Bldg., St. Paul, at $2.19 per sq.yd., total $30,430.

Kan., Hays—Ellis Co., grading 10.12 mi. Federal Aid Project 286-A and B, incl. two 10 x 24 ft. box span bridge, to R. L. Felden, Hays, $41,551. Noted Mar. 1.

South Dakota—State Hy. Dept., Pierre, **(F. A. P. means Federal Aid Project)**, grading, etc. 9.55 mi. F.A.P. 206-A, Butte Co., to Cooper & Marsh, Spearfish, $23,499; 4.31 mi. F.A.P. 96-B, Todd Co., to G. A. McAllister, Belvidere, $8,490; and 15.44 mi. F.A.P. 196-B, Aurora Co., to R. P. England, Mitchell, $44,776. Grand total $76,765.

North Dakota — State Hy. Comn., Bismark, grading and concrete paving 20.202 mi. Federal Aid Project 259-A, and 17.955 mi. Federal Aid Project 262-A, Sioux Co., to Stevens Bros., 612 Endicott Bldg., St. Paul, Minn., $90,855 and $101,313 respectively. Noted Mar. 11.

N. D., Fort Yates—Sioux Co., **(a)** grading **(b)** concrete culverts on **(1)** 139,509 cu. yd. Federal Aid Project 256, and **(2)** 146,804 cu.yd. Federal Aid Project 262, to Stevens Bros., 612 Endicott Bldg., St. Paul, Minn., **(a1)** $58,463 **(b1)** $32,391 **(a2)** $55,535 and **(b2)** $45,777. Grand total $192,166.

Wyoming — State Hy. Dept., Cheyenne, **(e. e. means engrs. est.)** grading, crushed gravel surfacing, etc. 15.5 mi. Federal Aid Project 19 (reopened), to Tobin & Maloney, Oklahoma City, Okla., $194,686 e. e. $276,578; surfacing and culverts on 7.6 mi. Cody-Powell Rd., Federal Aid Project 103-A, Park Co., to Taggart Constr. Co., Cody, $51,117 e. e. $75,000; also grading and 7 timber bridges on 25.9 mi. Federal Aid Project 191-A, Sweetwater Co., to Scharrock & Pursel, Box 316, Casper, $71,733 e. e. $108,030. Grand total $317,536. Noted Mar. 25.

Texas—State Hy. Comn., Austin, bituminous surface treating 161 mi. roads in Red River, Bowie Cass, Titus, Delta, Collin, Denton and Wise Counties, to H. K. McCollum, 1507 F. & M. Bank Bldg., Ft. Worth, $190,700, engrs. est. $300,000; 119.37 mi. roads in Bell, Williamson and Milam Counties, to McClung Constr. Co., Cleburne, $174,898, engrs. est. $250,000; 183 mi. roads in Howard, Martin, Midland, Ector, Scurry, Brewster and Potter Counties, to Cocke & Turner, Marshall, $230,720. Engrs. est. $400,000. Grand total $596,318. Noted Apr. 1.

Tex., Beaumont — Rock asphalt paving various streets, to Uvalde Rock Asphalt Co., Franklin and Archie Sts. $333,289. Noted Mar. 11.

Tex., Clarksville—Red River Co., grading, clearing, grubbing, bridging and gravel surfacing 1.01 mi. State Highway 66, State Aid Project 364-A, to Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $42,980. Engrs. est. $46,500. Noted Apr. 1.

Tex., Dallas — Dallas Co., grading, bridging and gravel-surfacing 3.05 mi. Highway 78, State Aid Project 643, 16 ft., to A. Jackson, 4704 Bryan St., $23,648. Engrs. est. $32,500. Noted Apr. 1.

Tex., Eagle Lake—Office of R. T. Westmoreland, mayor, curbing, guttering and 6 in. concrete paving Main St. and around Square, to Brown & Root, Georgetown, $27,364. This corrects report in Apr. 1 issue.

Nev., Reno—Asphaltic concrete paving, etc., 660,000 sq.ft. various streets, to Smith-Peterson Co., Reno, $129,600. Noted Apr. 1.

Wash., Seattle—Bd. Pub. Wks., brick and concrete paving North 36th St. et al., to Erickson Paving Co., Henry Bldg., $81,477. Noted Apr. 1.

Wash., Tacoma — Comrs. Pierce Co., paving 3 mi. South Prairie-Buckley-Wilkeson Highway, to Albertson, Cornell Bros. & Walsh, 2 South Tacoma St., Tacoma; $74,850.

Wash., Walla Walla—Comr. Walla Walla Co., constructing 3.82 mi. Sudbury Rd. between Theil and Rulo, 31,698 cu.yd. excav., 14,292 cu.yd. borrow, 9,548 cu.yd. solid rock excav. and 8,400 cu.yd. two course surfacing, etc., to J. Tobin & Son, Eltopia, $56,017.

Wash., Wenatchee—City Council 23,400 sq.yd. 8 in. and 7,700 sq.yd. 7 in. concrete paving Columbia and Yakima Aves., to P. H. Adams & Co., Wenatchee, $110,721.

Calif., San Anselmo—F. D. Burrows, city clk., grading, hydrated concrete curbing, guttering, asphaltic concrete paving, etc. Florence, Oak Knoll, Pastori Aves., etc., to Pacific States Constr. Co., Call Bldg., San Francisco, $20,495. Noted Mar. 18.

Calif., San Francisco — Golden Gate Heights Tract, grading, sewers, etc., in Golden Gate Heights Tract, to H. N. McClure, 608 Octavia St. $589,000.

Ontario — Dept. Highways Toronto, concrete paving 6.75 mi. road westerly from Colborne, Contr. 1273, to Paving & Mastic Co., Federal Bldg., Toronto, $200,000; grading 6.5 mi. road from Chatsworth south towards Durham, Contr. 1285, to L. Williams, Mitchell, Ont. $25,000, 6.1 mi. road from swamp north of Markdale southerly, Contr. 1286, to A. B. McLeod, 120 Neywash St., Orillia, $25,000, 12.2 mi. road from Joyceville to point 2.5 mi. north of Seeleys Bay Contr., 1307, to McGinnis and O'Connor, Kingston, $30,000; asphaltic concrete (black base) paving, 6.4 mi. road from Allanburg to Welland, Contr. 1289, to Dufferin Constr. Co., Bathurst St., Toronto, $225,000; surface treating 8 mi. road from Ottawa to Connaught Rifle Ranges and 34.9 mi. road from Port Elmsley to Ashton, Contrs. 1308 and 1309, to Bituminous Spraying & Contg. Co., Confederation Life Bldg., Toronto, $50,000, 5 mi. road west L'Original, Contr. 1310, to Municipal Road Spraying & Oiling Co. Ltd., 50 Yonge St. Arcade, Toronto, $6,000; concrete abutments on Trambley Creek Bridge, Lot 11, Tilbury Twp., Contr. 1311, to A. Hunean, 1510 Dougal Ave., Windsor, $15,000; widening concrete bridge, 4 mi. east of Hawkesbury, Contr. 1312, to Ontario Bridge Co., Crown Office Bldg., Toronto, $10,000; steel superstructure Trambley Creek Bridge, Contr. 1314, to Dominion Bridge Co., Reford Bldg., Toronto, $10,000. Grand total $596,000. Noted Mar. 4.

Ont., Perth — Concrete curbing, guttering and asphalt concrete paving 2 mi. various streets, to Standard Paving Co. Ltd., Central Chambers, Ottawa. Engrs. est. $200,000.

Alta., Calgary — Will curb, grade and concrete sidewalks, asphalt paving, etc., various streets, by day labor. $175,000. J. M. Miller, city clk.

Buildings—Commercial

Proposed Work

Me. Portland — APARTMENT — H. W. Rhodes, archt., 574-A Congress St., plans 6 story, limestone and brick, Congress St.

Me., Portland — CHEMICAL LABORATORY — Schlotterbeck & Foss, 36 Brown St., plans 5 story and basement, brick and steel laboratory. $200,000.

Vt., Burlington — AUDITORIUM — City purchased site and plan brick and steel, Maine and South Union Sts. $150,000.

Vt., Burlington—CITY HALL—City having sketches made by McKim, Meade & White, 101 Park Ave., New York City, city hall, Main and Church Sts.

Mass., Attleboro — THEATRE — Eagles Home Bank Building Assn., Inc., having revised plans prepared by J. A. Tuck, Park Sq. Bldg., Boston, 2 story and basement, 132 x 190 ft., brick and terra cotta, Bank St. $175,000. Former bids rejected. Noted Dec. 24.

Mass., Boston — HOSPITAL — Massachusetts General Hospital, F. A. Washburn, in charge, Fruit St., having preliminary plans prepared by Coolidge, Shepley, Bulfinch & Abbott, Ames Bldg., 5 story and basement, brick addition. $175,000.

Mass., Boston—Y. M. C. U., 48 Boylston St., plans building, Park Sq. Sect. To exceed $150,000. Architect not selected.

Mass., Cambridge (Boston P. O.) — APARTMENT—M. L. Garfield, 37 Irving St., having sketches made by Blackall & Elwell, 44 Bromfield St., Boston, 3 or more story and basement, stone, Akron St. $150,000 or more.

Mass., Hyannis—APARTMENT—W. W. Hoblitzell, 31 Milk St., Boston, will not construct brick and steel, Main St. $250,000. Noted Feb. 18.

Mass., Hyannis—PASSENGER STATION —New York, New Haven & Hartford R.R. Co., New Haven, Conn., E. Gagel, ch. engr., plans 1 story railroad station, here. $150,000.

Mass., Somerville (Boston P. O.) — STORE and OFFICE — L. Giardini, 103 Tonawanda St., Dorchester, plans 3 story and basement, brick and stone, Elm St. $150,000. Engineer and architect not selected.

Mass., Springfield — HOSPITAL — Mercy Hospital, Elliot St., raising $400,000 funds, hospital, Carew St.

Mass., Worcester—AUDITORIUM — City, Pub. Building Dept., plans auditorium, 5,000 seating capacity, Lincoln Sq. $[illegible] Engineer and architect not selected. Noted Mar. 11.

Conn., New Haven—COURT HOUSE — Comrs. New Haven Co. approved $[illegible] bond issue purchasing site, constructing court house addition, incl. office and library accommodations, Church St. Engineer and architect not selected.

Conn., New Haven—OFFICE—Southern New England Telephone Co., 126 Court St., having plans prepared by R. W. Foote, 10-12 story, 40 x 45 ft., and 40 x 120 ft., brick and steel, Court St. $500,000. Noted Jan. 7.

N. Y., Brooklyn — HOSPITAL — Coney Island Hospital, Ocean Parkway, soon takes bids on revised plans brick, steel and stone addition, plain foundation. $500,000. Lodge & Morrison, 160 Pearl St., New York City, engrs. and archts. Noted Dec. 10.

N. Y., Buffalo—APARTMENT—Carr & Andrews, c/o Haugaard & Burnham, engr. and archt., 185 Madison Ave., New York City, soon takes bids brick, steel and stone, plain foundation, Summer St., here. $1,000,000. Noted Jan. 28.

N. Y., Buffalo—HOSPITAL—City plans hospital group incl. 2 ward buildings, administration building, etc., Grider St. $1,250,000.

N. Y., Buffalo — HOSPITAL — Millard Fillmore Hospital, Lafayette Ave., having plans prepared by Kidd & Kidd, 322 Franklin St., 2 story hospital, Lafayette Ave. $750,000. Noted Mar. 25.

N. Y., Far Rockaway — POLICE STATION and GARAGE — Police Dept., 240 Centre St., New York City, having plans prepared brick, steel and stone, plain foundation, Mott Ave., here. $275,000. Private plans.

N. Y., Jamestown—Y. M. C. A., 211 Lakeview Ave., having plans prepared by J. F. Jackson, engr. and archt., 137 East 45th St., New York City, 4 story, brick, steel and stone, plain foundation, East 4th St. $400,000.

N. Y., Montauk — HOTEL — Montauk Beach Development Co., c/o C. G. Fisher, 52 Vanderbilt Ave., New York City, soon lets contract brick, steel and stone, plain foundation, here. Schultze & Weaver, 17 East 49th St., New York City, engrs. and archts. Noted Mar. 18.

N. Y., New York — APARTMENT — W. Warren, 16 East 47th St., having preliminary plans prepared by Warren & Wetmore, engrs. and archts., 6 East 47th St., 12 story, brick, steel and stone, plain foundation, 1041 5th Ave. $1,000,000.

N. Y., New York—APARTMENT—R. O. W. Realty Corp., c/o W. Koppe, engr. and archt., 567 East Tremont Ave., having plans prepared 6 story, brick, steel and stone, plain foundation, Heath Ave. and Kingsbridge Rd. $280,000.

N. Y., New York — APARTMENT — J. Mautner, c/o Sugarman & Berger, engrs. and archts., 345 Madison Ave., having plans prepared 6 story, brick, steel and stone, plain foundation, Madison Ave. $200,000.

N. Y., New York—HOTEL—A. Kay, c/o F. P. Platt & Bro., archts., 221 West 57th St., soon takes bids brick, steel and stone, plain foundation, 6th Ave. $600,000. E. E. Seelye, 101 Park Ave., engr. Noted Apr. 8.

N. Y., New York—OFFICE—M. Greenstein, 206 West 29th St., plans three 24 story, brick, steel and stone, plain foundations, 8th Ave. at 27th St. $15,000,000. Engineer and architect not selected.

N. Y., New York—OFFICE and LOFTS —A. E. Lefcourt, 1351 Bway., plans three 23 story, brick, steel and stone, plain foundations, one at 22nd St. and 7th Ave., $7,000,000; one at 25th St. and 7th Ave., $10,000,000; and other at 23rd St. and 7th Ave., $8,000,000. Engineer and architect not selected.

N. Y., New York — WAREHOUSE — Hensle Constr. Co., c/o G. S. Kingsley, engr. and archt., 1452 Bway., soon takes bids rein.-con., brick and steel, plain foundation, West 134th St. $260,000.

N. Y., Rochester—GARAGE and OFFICE —Broad Building Corp., c/o R. J. Reidpath, engr., Mutual Life Bldg., Buffalo, having plans 6 and 10 story garage and office building, Broad and Exchange Sts. To exceed $500,000.

N. Y., Rochester — WAREHOUSE — F. Kelley, engr., 821 Ellicott Sq. Bldg., Buffalo, takes bids about Apr. 15, 2 story, 100 x 320 ft., rein.-con., South Clinton St., here, for H. West, c/o engineer. To exceed $200,000.

N. Y., White Plains — OFFICE — Bd. Supervs. Westchester Co., Court House, having plans prepared by B. W. Morris, engr. and archt., 101 Park Ave., New York City, 10 story, 250 x 250 ft., brick, steel and stone, plain foundation, Court St. $800,000.

Buildings—Commercial (Continued)

N. J., Elizabeth—HOSPITAL—Alexian Bros. Hospital, soon takes bids brick, steel and stone addition, plain foundation. Lord & Hewlett, 2 West 45th St., New York City, engrs. and archts.

N. J., Newark—BANK and OFFICE—Guardian Trust Co. of New Jersey, N. Elm, rehn Building Com., having plans prepared by Holmes & Winslow, 134 East 44th St., New York City, 15 story, brick, steel and stone, plain foundation, Broad St.

Pa., Coatesville — HOSPITAL — Coatesville Hospital, c/o Heacock & Hokensen, archts., 1211 Chestnut St., having plans prepared 3 story and basement, 40 x 120 ft., rein.-con., brick and steel, plain foundation.

Pa., Phila.—OFFICE—Phila. Electric Co., 19th and Chestnut Sts., having plans prepared by J. T. Windrim, Commonwealth Bldg., 20 or more story and basement, 100 x 100 ft., rein.-con., brick and steel, 9th and Sansom Sts. $2,000,000.

Pa., Phila.—STORE—L. B. Rothschild, archt., 215 South Broad St., soon lets contract 2 story and basement, 76 x 156 ft., rein.-con., brick and steel, plain foundation, 16th and Market Sts., for Heyman Bros., 215 South Broad St. $250,000.

Pa., Pittsburgh — CLUB HOUSE — East Liberty Bowling Assn., Broad and Larimer Aves., having plans prepared by H. C. Hodgkins, 658 Maryland Ave., 3 story and basement, 100 x 187 ft., brick and steel, Collins Ave. $150,000.

Md., Baltimore — STORE — J. Feldman, 927 West Baltimore St., having plans prepared by S. Russell, 11 East Lexington St., 2 story and basement, 60 x 260 ft., rein.-con., brick and steel, plain foundation, Baltimore and Callender Sts. $150,000.

Va., Richmond — THEATRE — M. G. Thalhimer, 1013 East Main St., had plans designed by Carneal & Johnston, Railway & Power Bldg., and having estimates prepared by J. T. Wilson Co., Mutual Bldg., Wise Granite & Constr. Co., 4th and Grace Sts., and Doyle & Russell, Richmond, for Neighborhood Theatre, 50 x 130 ft., with large foyer, brick, limestone and stucco, West Broad St. near Davis Ave.

Fla., Clearwater—THEATRE—H. Pittman and associates, having plans prepared by S. E. Couch & C. E. Vosburg, Clearwater, theatre, Osceolo Ave. $200,000.

Fla., Vero Beach — THEATRE — W. Atkins and associates, purchased site and plan theatre, Pueblo Dr. $150,000.

Miss., Jackson—HOSPITAL—H. L. Whitfield, gov., plans to appoint 3 members of building commission to direct construction insane hospital, on Rankin State Farm. $2,500,000.

Miss., Meridian—HOTEL—Meyers Bros., et al., S. Meyers, pres., take bids about Apr. 14, 11 story, 75 x 101 ft., rein.-con., brick and steel, 5th St. and 21st Ave. P. J. Krouse, Maizza-Woods Bldg., archts. Noted Mar. 11.

O., Canton—THEATRE and OFFICE—Loew Theatre Co., 1540 Bway., New York City, having plans prepared by T. W. Lamb Co., 644 8th Ave., New York City, new theatre, Market at 5th St., here. $300,000.

O., Dayton — APARTMENT HOTEL — F. J. Hughes, U. B. Bldg., having plans prepared 12 story apartment hotel, Bellemonte Ave. $1,000,000. Private plans.

Ind., Indianapolis—HOSPITAL—Indiana Christian Hospital, Senate and Ohio Sts., had plans prepared by F. S. Cannon, 4443 Guildford Ave., 16 story and basement, 40 x 200 ft., brick steel and terra cotta hospital. $1,500,000.

Ill., Chicago—BANK, STORE and OFFICE—H. L. Newhouse & F. M. Bernham, archts., 4623 Drexal Blvd., prepared plans and take bids about Apr. 15, 4 story and basement, 90 x 125 ft., brick and terra cotta, 63rd St. and Ashland Ave., for West Englewood Natl. Bank Building Corp. $500,000.

Ill., Chicago — HOTEL — Syndicate, c/o Leichneko & Esser, archts., 38 South Dearborn St., having plans prepared 4 story, 100 x 149 ft. hotel, 79th St. and Lowe Ave. $350,000.

Ill., Chicago—OFFICE—Illinois Society of Architects, 160 North LaSalle St., H. L. Palmer, secy., plans large office building. $3,000,000.

Ill., Chicago—OFFICE—Hyland & Corse, archts., 159 East Ontario St., prepared plans and take bids about May 1, 12 story and basement, 40 x 110 ft., rein.-con., brick, granite and terra cotta, wood pile foundation, 180 West Washington St., for One Hundred and Eighty West Washington St. Building Corp., c/o A. F. Klink, 110 South Dearborn St. $1,000,000.

S. D., Watertown — COURT HOUSE — Codington Co. plans probably 3 story and basement court house. $225,000. $200,000 bonds voted for same. Engineer and architect not announced. Noted Feb. 11.

Mo., St. Louis—MAUSOLEUM—Stanza & Co., Inc., Syndicate Bldg., having plans prepared by T. P. Barnett Co., Arcade Bldg., and S. Lovell, 224 East Ontario St., Chicago, Ill., rein.-con. and granite mausoleum in Park Grove Memorial Cemetery, St. Charles Rock and Carson Rds. $1,000,000.

Mo., St. Louis—POLICE STATION—Bd. Police Comrs., A. C. Orrick, pres., purchased site and plans rein.-con., brick, stone and steel police headquarters, 12th St. and Clark Ave. $1,000,000. Engineer and architect not selected.

Tex., Amarillo—OFFICE—W. C. Hedrick, archt., 1005 1st Natl. Bank Bldg., Ft. Worth, takes bids about Apr. 15, 10 story and basement, 60 x 140 ft., brick, stone and concrete, 6th and Palk Sts., here, for M. D. O. Eakle. $500,000.

Tex., Dallas—OFFICE—See "Railways, under Texas."

Okla., Oklahoma City—OFFICE—Layton, Hicks & Forsyth, archts., Baniff Bldg., soon lets contract 3 story and basement, 70 x 150 ft., rein.-con., brick and stone, for Mid-Continent Life Insurance Co., 200 North Robinson St. $300,000.

Wash., Seattle—STORE and OFFICE—A. McQuaker, archt., Melhorn Bldg., takes bids about Apr. 30, 7 story and basement, 111 x 120 ft., rein.-con., terra cotta and marble, 3rd and Union Sts., for J. K. McDowell, Henry Bldg. $450,000.

Calif., San Francisco—CLUB—Olympic Club, Olympic Club Bldg., having plans prepared by Bakewell & Brown, 251 Kearny St., 18 story and basement, Class "A," Post and Mason Sts. $1,500,000. Noted July 23.

Calif., San Francisco — STORE and OFFICE—Anchor Chain Safe Deposit Co., Inc., 11 Steuart St., having plans prepared by H. H. Winner Co., Sharon Bldg., 15 story and basement, fireproof, Market St. near Steuart St. $1,000,000.

Calif., San Jose—THEATRE, STORE and OFFICE—J. A. Kidward, 17 North 1st St., having preliminary plans prepared by H. Fischer, 17 North 1st St., 14 story and basement, 250 x 300 ft., Class "A," 1st and Santa Clara Sts. $2,500,000.

T. H. Honolulu—MEMORIAL HALL—Territory of Hawaii, having plans prepared by L. P. Hobart, Crocker Bldg., San Francisco, Calif., rein.-con. memorial hall, here. T. Ronneberg, Crocker Bldg., San Francisco, Calif., engr.

Bids Desired

Me., Norway — BANK — Norway Natl. Bank taking bids 2 story and basement, brick, stone and concrete bank. $150,000. H. Coombs, 11 Lisbon St., Lewistown, archt.

Mass., Boston — APARTMENT — See "Contracts Awarded."

Mass., Boston — MARKET — First Natl. Stores, Inc., Rutherford Ave., Charlestown, taking bids 4 story and basement, 65 x 110 ft., rein.-con. and brick, Union and North Sts., here. $160,000. Shepard & Stearns, 65 Franklin St., archts.

Mass., Boston—THEATRE, STORE and OFFICE—See "Contracts Awarded."

Mass., Brockton — BANK — Brockton Natl. Bank, C. R. Fillebrown, pres., taking bids 2 story and basement, brick and stone addition, Main and Church Sts. $150,000. T. M. James Co., 3 Park St., Boston, archts. Noted Apr. 8.

Mass., Brookline (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Walpole — MAINTENANCE and STORAGE—Bird & Son, taking bids 3 story, 70 x 260 ft., rein.-con. maintenance and storage building. To exceed $40,000. Monks & Johnson, 99 Chauncy St., Boston, archt.

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. J., Cape May—COURTHOUSE—Apr. 21, by Freeholders Cape May Co., 1 and 2 story and basement, 43 x 142 ft., 50 x 103 ft. and 48 x 103 ft., brick and steel, plain foundation. Edwards & Green, Van Russ Bldg., Camden, and L. H. Boyer, Wildwood, archts.

Pa. Easton—OFFICE—Apr. 30, by Lehigh Valley R.R. Co., G. T. Hand, ch. engr., 143 Liberty St., New York City, N. Y., having plans prepared 1 and 2 story, 65 x 365 ft., rein.-con. and brick passenger and freight office, etc., here.

Pa., Phila.—APARTMENT—See "Contracts Awarded."

Pa., Phila.—EXHIBITION—Apr. 17, by J. A. Nyden, 19 North State St., Chicago, Ill., John Morton Memorial, 2 story and basement, 18 x 31 ft., and 44 x 150 ft., rein.-con., brick, steel and stucco, plain foundation, League Island Park, for Swedish-Amer. Sesquicentennial Assn., Weidener Bldg. $150,000.

Pa., Pittsburgh—Apr. 30, by Y. M. C. A., North Ave. and Monterey St., N. S., and R. M. Trimble, archt., Ferguson Bldg., 5 story and basement, 60 x 170 ft., brick and steel, North Ave.

Pa., Wilkinsburg—HOTEL—Jannsen & Cocken archts., Century Bldg., Pittsburgh, taking bids 6 story and basement, 122 x 128 ft., brick and steel, Penn Ave., here, for Community Hotel Co., c/o Faller Furniture Co. $350,000.

Miss., Gulfport—BANK and OFFICE—Apr. 27 (extended date), by N. W. Overstreets, archt., Jackson, 7 story, 50 x 75 ft., rein.-con., brick, stone and terra cotta, 14th St. and 35th Ave., for Bank of Gulfport. $250,000. Noted Mar. 4.

Ohio—ARMORIES—May 20, by Adjutant General, State House, Columbus, 2 armories, one at Chillicothe, 2 story and basement, 100 x 200 ft., $110,000, other at Washington C. H., 2 story and basement, 50 x 100 ft., $50,000, both rein.-con. and brick. F. W. Elliott, 305 Chamber of Commerce Bldg., Columbus, archt.

O., Akron—HOTEL—Apr. 19, by United Hotels Co., Inc., 24 West 45th St., New York City, N. Y., hotel addition, East Market and Main Sts., here. $300,000. Esewein & Johnson, Ellicott Sq., Buffalo, N. Y., archt.

O., Columbus—CITY HALL—May 18, by W. H. Duffy, dir. Pub. Serv., 5 story and basement, Bedford stone, brick and terra cotta, Water St. $1,000,000. Allied Architects Assn., archts.; R. C. Kempten, archt. in charge. Allied Architects Assn., 82 West Broad St., archts.

Ind., Indianapolis—APARTMENT—Apr. 19, by H. J. Hibben, 131 South Meridian St., 4 story and basement, (two units), 48 x 80 ft. each, brick, steel and rein.-con., Emerson Ave. and Washington St. $250,000. R. N. Edwards, 71st St., archt. Noted Mar. 18.

Ill., Chicago—APARTMENT—See "Contracts Awarded."

Ill., Chicago — HOTEL — E. J. Melas, archt., 105 West Monroe St., taking bids 14 story and basement, 100 x 150 ft., Rush and Ontario Sts., for B. E. Cohn, et al, 139 North Clark St. $1,500,000.

Ill., Chicago—STORE and APARTMENT—W. C. Doerr, archt., 28 East Jackson Blvd., taking bids 4 story and basement, 105 x 140 ft., rein.-con., brick and terra cotta, 79th St. and Escanaba Ave., for G. F. Nord, 2926 East 79th St. $300,000.

Wis., Fond du Lac—COURT HOUSE—Apr. 22, by M. M. Bartlett, clk. Fond du Lac Co., 2 story and basement, 58 x 108 ft., stone and concrete addition. $150,000. F. J. Stepnoski, Forest Ave., archt. Noted Dec. 10.

Ia., Iowa City—HOSPITAL—May 25, by W. H. Gemmill, secy. State Bd. Educ., State House, Des Moines, 7 story, 305 x 496 ft., rein.-con., brick and steel, plain foundation, here, for State University of Iowa. $2,000,000. Proudfoot, Rawson & Souers, Hubbell Bldg., Des Moines, archts. and engrs.

Mo., St. Louis—APARTMENT HOTEL and THEATRE—See "Contracts Awarded."

Mo., St. Louis — APARTMENT — See "Contracts Awarded."

Tex., Galveston — WAREHOUSE — Galveston Wharf Co., c/o G. Sealy, 2324 B St., taking bids 2 story, hollow tile and wire glass warehouse. $150,000. R. M. Sias, c/o owner, archt. and engr.

Tex., San Benito—HOTEL—Apr. 20, by San Benito Community Hotel, c/o E. Dounes, pres., 312 Natl. Bank of Commerce, San Antonio, 2 and 3 story, brick, rein.-con. and tile, here. $175,000. H. P. Smith, 312 Natl. Bank of Commerce Bldg., San Antonio, archt.

Calif., Beverly Hills — CLUB — Beverly Hills Club, Inc., c/o W. A. Hudson, archt., 1809 Santa Monica Blvd., taking bids 2 story, 170 x 127 ft., rein.-con. and timber construction, incl. swimming pool, etc. $150,000 or more.

Bids Received

Ala., Mobile — WAREHOUSE—Alabama State Docks Comn., W. T. Sibert, chn., State Office Bldg., 250 x 900 ft. steel and fireproof warehouse at Pier 1, from W. H. Williams Co., 3318 Coliseum St., New Orleans, La., brick $273,800, and concrete $253,000. Noted Mar. 11.

Calif., Boyes Springs—HOTEL—Sonoma Properties Co., 2 and 3 story, rein.-con. hotel, from Keystone Constr. Co., Builders Exch., Oakland, $250,000. Noted Mar. 4.

Contracts Awarded

Mass., Allston (Boston P. O.)—WAREHOUSE—Pittsburg Plate Glass Co., 99 Portland St., Boston, 3 story and basement, 125 x 200 ft., rein.-con., Babcock St., to Scully Co., 118 1st St., East Cambridge. Archts. est. $250,000.

Mass., Boston—APARTMENT—J. Birson, 77 Hiawatha Rd., Mattapan, will build (5 unit) 3 story and basement, irregular size, brick and stone, plain foundation, Commonwealth Ave., here. $200,000. Work will be done by separate contracts. Silver-

Buildings—Commercial (Continued)

man, Brown & Heenan, 51 Cornhill archts.

Mass., Boston—GARAGE and STORE—Motor Mart Garage, 27 School St., 6 story, brick, limestone, steel and rein.-con., Columbus Ave., Stuart and Elliot Sts., to Chase & Gilbert, 220 Devonshire St. Archts. est. $2,000,000.

Mass., Boston—STORE and OFFICE—F. W. Fabyan, 46 Franklin St., 6 story and basement, brick, plain foundation, to W. M. Evatt Co., 200 Devonshire St. Archts. est. to exceed $150,000.

Mass., Boston—STORE and OFFICE—E. D. Brandegee, c/o H. B. Alden, archt., 15 Exchange St., 4 story and basement, 60 x 125 ft., brick and stone, plain foundation, 354-366 Boylston St., to E. A. Abbott Co., 3 Park St. Archts. est. $150,000.

Mass., Boston—THEATRE, STORE and OFFICE—Owner, c/o Krokyn, Brown & Rosenstein, archts., 220 Devonshire St., will build 2 story and basement, 90 x 200 ft., brick and steel, Bway., by day labor, under supervision of architects. $300,000.

Mass., Brookline (br. Boston)—APARTMENT—F. Slotnick, 44 Gerrish Ave., Chelsea, will build 4 story and basement, brick, plain foundation, Short St., here, by day labor. $150,000. Private plans.

Mass., Somerville (br. Boston)—WAREHOUSE—Somerville Warehouse Co., 1 story, 125 x 340 ft., rein.-con. and brick, Clyde St., to F. C. Alexander, Old South Bldg., Boston. Archts. est. $160,000. Noted Nov. 5.

Conn., New Britain — STORE and OFFICE — M. D. Honeyman, Archt St., general contract 2 story, 98 x 106 ft., to I. Wexler, 21 Hart St. Archts. est. $150,000.

Conn., New Britain—THEATRE—B. Hoffman, 113 Church St., New Haven, and I. J. Hoffman, Ansonia, structural steel for 150 x 200 ft., 2,500 seating capacity, concrete, brick and steel, Main St., to Porcupine Steel Fabrication Co., Bridgeport; erecting same, to Doody Steel Erection Co., 86 Grafton St., New Haven. Archts. est. $500,000. Noted Jan. 14.

N. Y., Albany—HOTEL—Equitable Life Assurance Society, 120 Bway., New York City, brick, steel and stone, plain foundation, Bway., here, to E. F. Carlson Co., 244 Main St. Archts. est. $2,000,000.

N. Y., Brooklyn—BANK and OFFICE—Manufacturers Trust Co., N. S. Jonas, pres., 139 Bway., brick, steel and stone, plain foundation, Myrtle Ave., to H. A. Harris, Inc., 16 East 43rd St., New York City. Archts. est. $500,000.

N. Y., Coney Island (Brooklyn P. O.)—BATH HOUSE — Realty Associates, 162 Remsen St., Brooklyn, 3 story, rein.-con., brick and steel, plain foundation, Boardwalk, here, to Turner Constr. Co., 244 Madison Ave., New York City. Archts. est. $375,000.

N. Y., Glen Cove—HOSPITAL, etc.—North Shore Hospital, Locust Valley, brick, steel and stone hospital and nurses home, plain foundation, here, to Bunce & Jergenson, New York Ave., Huntington. Archts. est. $500,000.

N. Y., New York — APARTMENT — Harmin Property Corp., c/o Springsteen & Goldhammer, engrs. and archts., 32 Union Sq., will build 6 story, brick, steel and stone, plain foundation, Anderson Ave., by day labor. $285,000.

N. Y., New York — APARTMENTS — Dwellers Building Corp., c/o Springsteen & Goldhammer, engrs. and archts., 32 Union Sq., will build three 5 story, brick, steel and stone, plain foundations, one at Allerton Ave., one Britton St., and other Bronx Park East, by day labor. $400,000 each. Noted Jan. 21.

N. Y., New York—APARTMENT—Datler Realty Corp., c/o H. Ginsberg, engr. and archt., 220 East 42nd St., New York City, will build 5 story, brick, steel and stone, plain foundation, Townsend Ave. and 172nd St., by day labor. $600,000.

N. Y., New York — APARTMENTS — Dwellers Estates, Inc., c/o G. W. Swiller, engr. and archt., 543 Claremont Parkway, will build 2 brick, steel and stone, plain foundations, one at Nelson Ave., $200,000, and other 175th St. and Undercliff Ave., $175,000, by day labor.

N. Y., New York—APARTMENT—Fein & Barth Constr. Co., c/o P. G. Stadler, engr. and archt., 16 East 43rd St., will build 5 story, brick, steel and stone, plain foundation, 168th St. and Ogden Ave., by day labor. $250,000.

N. Y., New York—BANK—Public Natl. Bank, 149th St. and Prospect Ave., brick, steel and stone, plain foundation, 169th St. and Morris Ave., to Leddy & Moore, 70 West 40th St. Archts. est. $200,000.

N. Y., New York—CLUB HOUSE—Three Arts Club, c/o E. V. Hammond, pres., 346 West 45th St., 8 story, brick, steel and stone, plain foundation, 336 West 86th St., to E. C. Brown Co., 70 East 45th St. Archts. est. $400,000.

N. Y., New York—HOTEL—Plaza Annex Corp., 21 West 58th St., brick, steel and stone addition, plain foundation, 21 East 58th St., to G. A. Fuller, 175 5th Ave. Archts. est. $250,000. Noted Mar. 25.

N. Y., New York—THEATRE and OFFICE—A. E. Erlanger, 214 West 42nd St., 8 story, brick, steel and stone, plain foundation, 246 West 44th St., to Thompson-Starrett Co., 250 Park Ave. Archts. est. $1,500,000. Noted Mar. 11.

N. Y., West Haverstraw—HOSPITAL—State Hospital Comn., Albany, isolation building, nurses home, etc., at State Orthopedic Hospital, here, to G. Colon & Co., Inc., 1 East 125th St., New York City, $447,000. Noted Mar. 18.

Pa., Charleroi—STORE—Berryman Dept. Store and Yoke & Lowstetter, archts., Monongahela City, general contract 2 story and basement, 80 x 100 ft. department store, to Cartensen & McLain, Johnstown. Archts. est. $150,000. Noted Mar. 18.

Pa., Phila. — APARTMENT — Babis & Bender Constr. Co., Schubert Bldg., will build 4 story and basement, 96 x 180 ft., rein.-con., brick and steel, 5408-12 Chestnut St., by day labor. $400,000. I. W. Levin, 1011 Chestnut St., archt.

Pa., Phila. — BANK and OFFICE — S. Clements, Packard Bldg., 6 story and basement, 50 x 118 ft., rein.-con., brick and steel, 16th and Walnut Sts., to Murphy Quigley Co., 1524 Sansom St.

Pa., Phila. — OFFICE and STORE — Pennsylvania R.R. Co., A. C. Shand, ch. engr., Broad St. Sta., 9 story and basement, 50 x 180 ft., rein.-con., brick and steel, plain foundation, 1107-09 Market St., to Irwin & Leighton, 126 North 12th St. Archts. est. $800,000.

Pa., Pittsburgh—BANK—West End Savings Bank & Trust Co., Main and Wabash Aves., (B. H. Prack, archt., Martin Bl. N. S.), general contract new bank building, to H. Busse, 500 South Main St., $330,000.

Fla., Tampa—HOSPITAL—City Comrs., City Hall, 6 story and basement, 50 x 375 ft. with two 25 x 50 ft. wings, brick and limestone, to Fleisher Eng. & Constr. Co., Tampa. Archts. est. $1,000,000.

Mich., Detroit — FILM EXCHANGE — W. R. Stebbins, 2201 Hazelwood Ave., 8 story and basement, 94 x 118 ft., rein.-con. and brick, plain foundation, Cass Ave., to H. G. Christman Co., 315 Stevens Bldg. Archts. est. $1,500,000.

Ill., Chicago—APARTMENT—M. Callner, 177 North State St., will build 19 story, 150 x 180 ft. co-operative apartment, Oakdale and Commonwealth Aves. $3,250,000. Work will be done by separate contracts. R. Gregori, 155 North Clark St., archt.

Ill., Chicago—APARTMENT—P. F. Olsen, archt. and head of syndicate called Junior Terrace Bldg. Corp., 720 Cass St., masonry and carpentry contract 12 story, 50 x 112½ ft., rein.-con., brick and stone, 705 Junior Terrace, to Rosenberger, Peterson & Leaf Co., 5153 North Clark St. Archts. est. $300,000. Noted Feb. 18.

Ill., Chicago—OFFICE—D. Schetnitz, 77 West Washington St., general contract 12 story and basement, 150 x 185 ft., brick, stone and terra cotta, known as 300 Adams Building, to McLennan Constr. Co., 307 North Michigan Ave. Archts. est. $2,000,000.

Ill., Chicago—STORE, APARTMENT and GARAGE—H. A. Hyden, archt., 190 North State St., masonry contract 3 story, 100 x 150 ft., brick, 7551-59 Ridge Blvd., to E. Borg, 7000 Pingree St., for J. Menzel & J. Cauger, 106 South Wabash Ave. Noted Mar. 25.

Ill., Chicago—THEATRE, STORE and OFFICE—E. J. Krug, c/o W. P. Whitney, archt., 822 West 70th St., general contract 2 story, 110 x 138 ft., brick and terra cotta, East 69th St. near Indiana Ave., to R. Levine & Co., 822 West 70th St. Archts. est. $700,000.

Ill., Chicago—WAREHOUSE—National Tea Co., 1000 Crosby St., general contract 6 story, 107 x 116 ft., rein.-con. addition, Crosby St. north of Oak St., to L. J. Mensch, 160 North La Salle St. Archts. est. $400,000.

Ill., Kankakee — STORE, OFFICE and APARTMENT—Kankakee Building Corp., general contract 3 story and basement, 150 x 150 ft., brick and terra cotta, Dearborn Ave. and Merchant St., to J. J. Redding & Co., 10 North Clark St. Archts. est. $750,000.

Minn., St. Paul — WAREHOUSE and OFFICE — A. J. Krank, 140 East 6th St., general contract 2 story and basement, 75 x 150 ft., rein.-con. and brick, University Ave. between Prior and Fairview Aves., to Pike & Cook, 416 South 5th St., Minneapolis. Archts. est. $200,000. Noted Nov. 26.

Mo., St. Louis—APARTMENT HOTEL and THEATRE — Stuyvesant Realty & Building Co., International Life Bldg., 20 story and basement, 170 x 193 ft., rein.-con., brick, terra cotta and tile, Lindell Blvd. and Spring Ave., to P. B. Brinshaw, archt., International Life Bldg., under sub-contract system. Noted Apr. 8.

Mo., St. Louis—APARTMENT—Shelld Mutual Eng. Co., 405 Buder Bld., will build 3 story and basement, 60 x [illegible] ft., rein.-con. and brick, 3300-08 Russell Ave., with own forces. $150,000. Kennedy & Stegemeyer, Title Guaranty Bldg., archts.

Mo., St. Louis—APARTMENT—Husam Realty Co., International Life Bldg., will build 8 story and basement, 43 x [illegible] ft., rein.-con., brick, steel and terra cotta addition, McPherson and De Beliviere Sts., by day labor under supervision of Howard & Finley, archts., International Life Bldg. $220,000. Noted Nov. 12.

Mo., St. Louis — APARTMENT — May Building & Investment Co., 808 Chestnut St., will build group 2 story and basement, 30 x 46 ft., 34 x 38 ft. and 31 x 34 ft., brick and concrete, Cleveland Pl., by day labor. $150,000.

Tex., Amarillo — BUSINESS — Amarillo Building Co., c/o E. O. Thompson, 8 story, rein.-con., brick and stone addition, plain foundation, to F. Bone Constr. Co., Amarillo, approximately $500,000.

Tex., Dallas—APARTMENT HOTEL—Lake Cliff Apartment Corp., W. S. Bellows, pres., Oklahoma City, Okla., 10 story and basement, 60 x 150 ft., brick and terra cotta, Zangs Blvd., and Colorado St., here, to Bellaus & Maclay, 611 Kirby Bldg., $750,000.

Okla., Okmulgee—OFFICE—J. W. McCullough, 8 story and basement, 95 x 102 ft., rein.-con. and brick, to C. M. Dunning Constr. Co., 420 North Hudson St., Oklahoma City, $353,489. Archts. est. $400,000.

Wash., Mt. Vernon—HOTEL—J. Foster, Mt. Vernon, reconstructing Windsor Hotel, 3 story, rein.-con. and brick, to Alexander & McNeil, Mt. Vernon. Archts. est. $185,000.

Calif., Santa Barbara — LODGE — B.P.O.E., 3 story and basement, 100 x 110 ft. lodge, to P. J. Walker, Garland Bldg., Los Angeles, $265,000. Noted Apr. 8.

Calif., Stockton — MAUSOLEUM — Casa Bonita Mausoleum, 37 North Sutter St., 1 story with tower, 125 x 250 ft., rein.-con. and marble, to C. S. Mabrey, Oschsner Bldg., Sacramento, $250,000. Noted Feb. 18.

Ont., Toronto — GARAGE and SHOW ROOM — Moore & Hughes and Reo Motor Sales Co., 593 Yonge St., general contract 2 story, 130 x 260 ft., rein.-con. and brick, plain foundation, Bay and St. Joseph Sts., to Jackson Lewis Constr. Co., Federal Bldg. Archts. est. $200,000.

Buildings—Industrial

Proposed Work

Mass., Reading—GARAGE and REPAIR SHOP—Town, Municipal St. Dept., having preliminary plans prepared by G. H. Sidebottom, 101 Tremont St., Boston, 1 story, rein.-con. and brick garage and repair shop. $50,000.

N. Y., Buffalo—GARAGE and SERVICE—Owner c/o E. Goldstein, archt., Prudential Bldg., having preliminary plans prepared garage and service station. $45,000.

N. Y., North Tonawanda — SHINGLE PLANT — Weatherbest Stained Shingle Co., 154 Main St., plans plant addition, Island St. $60,000.

N. J., Newark—BAKING PLANT—Continental Baking Co., 512 5th Ave., New York City, soon takes bids rein.-con., brick, steel and stone, plain foundation, Fabyan Pl., here. C. B. Comstock, 110 West 40th St., New York City, engr. and archt. Noted Nov. 12.

Pa., Phila. — FACTORY — McKarden Paper Box Co., 224 Pine St., having plans prepared by C. E. Wunder, 1520 Locust St., 3 story and basement, 50 x 75 ft., rein.-con. and brick, plain foundation, Front St. below Norris St.

Pa., Williamsport — FACTORY — J. E. Foucart Saw Wks. Co., J. E. Foucart, pres., receiving plans 2 story and basement, 31 x 210 ft., concrete block factory, Locust St. $150,000.

Md., Baltimore—FACTORY—O. T. Smith Co., 407-11 East Saratoga St., plans 2 story and basement, irregular shaped, brick and steel, plain foundation, Aiken St. near Curtain St. $45,000. Engineer and architect not selected.

Md., Baltimore — FACTORY — Wilkens Bros., c/o L. W. Wilkens, 2401 Frederick Ave., plans 2 story and basement, irregular shaped, rein.-con. and brick, Patapsco and 9th Sts. $100,000. Engineer and architect not selected.

Fla., Tarpon Springs—POWER PLANT—Pinellas County Power Co., St. Petersburg, plans new power plant, here. $500,000.

Buildings—Industrial (Continued)

Miss., Biloxi — LIGHT PLANT — City plans electric light plant.

O., Kenmore — FACTORY — Standard Rubber Co., plans rebuilding 2 story and basement factory, recently destroyed by fire. $75,000.

O., Warren—FACTORY—Aetna Fdry. & Machine Co., plans new factory addition. $100,000.

Ind., Jasper—FACTORY—Hoosier Desy Co., having plans prepared by Shopbell, Fowler & Thole, Evansville, 3 story, 60 x 150 ft., brick and steel factory. $40,000.

Ill., Burnside — INSPECTION SHOPS — Illinois Central R.R., D. J. Brumley, ch. engr., 135 East 11th Pl., Chicago, soon takes bids super-structures 90 x 440 ft. inspection shop, 50 ft. high, 75 x 440 ft., rein.-con. repair shop, 40 ft. high, etc., here. $270,000.

Ill., Fairfield—FACTORY—Danbury Mfg. Co., having plans prepared by Shopbell, Fowler & Thole, Evansville, Ind., 1 story factory. $40,000.

Kan., Osawatomie—POWER PLANT—See "Waterworks."

Wash., Seattle—TERMINAL DEPOT and SERVICE, etc.—Puget Sound Power & Light Co., A. W. Leonard, pres., Stuart Bldg., plans 2 story, rein.-con., brick and stone interurban stage terminal depot $400,000, and 1 story, rein.-con. service building, 35,000 sq.ft. floor space $175,000, also increasing output electricity of Baker River hydro-electric plant from 40,000 to 50,000 hp., etc. $1,708,000.

Bids Desired

Mass., Holyoke—BOILER HOUSE—Apr. 16, by Manager's Office, City Hall brick and steel boiler house. $40,000, McClintock & Craig, 458 Bridge St., Springfield, archts.

Mass., Medfield—REPAIR and SERVICE GARAGE—C. C. Pierce taking bids 1 story, 80 x 120 ft., rein.-con. and steel, plain foundation. $45,000. R. M. Stowell, 184 Boylston St., Boston, archt.

Conn., Bristol — WAREHOUSE — E. Ingraham Co., 392 North Main St., soon lets contract 5 story, brick, North Maine St. $100,000. M. Unkelbach, 52 Main St., New Britain, archt.

Pa., Ardmore—LAUNDRY—St. Marys Laundry, Inc., soon lets contract 1 story and basement, 100 x 146 ft. rein.-con., brick and steel, plain foundation, Aubrey Ave. Private plans.

Pa., Phila.—FACTORY—C. E. Wunder, archt., 1520 Locust St., soon lets contract 5 story and basement, 145 x212 ft., rein.-con. and brick, plain foundation 21st. and Allegheny Sts., for Steel-Heddle Mfg. Co., 21st and Allegheny Sts. $500,000.

O., Canton—FACTORY—May 1, by Everhard Mfg. Co., 1 story addition, 7th St. SW. $40,000-$50,000.

Wis., Milwaukee — FOUNDRY — H. C. Haeuser, archt., 445 Milwaukee St., taking bids brick and steel addition, Oregon St., for Loeffelholz Co., 170 Clinton St. $40,000.

Wis., Racine—PRINTING PLANT—F. J. Hoffman, archt., Janes Bldg., taking bids 2 story (ultimately 5 story) and basement, brick and concrete addition, plain foundation, for Times Call Building Corp., Main St. $150,000.

Wis., Two Rivers—FACTORY—Apr. 26, by Lockwood, Greene Co., engrs., 400 North Michigan Blvd., Chicago, Ill., 5 story, 30 x 120 ft. and 1 story, 120 x 250 ft., brick and steel, plain foundation, here, for Hamilton Mfg. Co.

Ia., Mason City — DAIRY PLANT — See "Contracts Awarded."

Ark., Eldorado — FLOUR MILL — See "Contracts Awarded."

Ont., Toronto — ROUND HOUSE — Apr. 26, by Terminal Engineer Canadian Natl. Rys., New Union Sta., buildings for engine and car facilities. $300,000. T. T. Irving, New Union Sta., engr.

Contracts Awarded

Mass., Dorchester (Boston P. O.)—REPAIR and SERVICE GARAGE—L. Cavagnaro & Sons, 18 Washington St., 2 story, rein.-con., 18 Washington St., to Marden & Orlando, 333 Washington St., Boston. Archts. est. $75,000.

Mass., Framingham—FOUNDRY, etc.—Guerney Heater Mfg. Co., Arlington St., brick and steel foundry and crane way, to J. J. Prindeville, Prindeville Bldg. Archts. est. to exceed $40,000.

Mass., Hudson — HEATER — Firestone Tire & Rubber Co., South Main St., 5 story and basement, 80 x 200 ft., brick and rein.-con., to C. A. Bassett, Hudson. Archts. est. $250,000.

Mass., Watertown — FACTORY — Amer. Soda Fountain Co., Congress St., Boston, 2 story, 175 x 300 ft., brick and steel addition, Walnut St., to Aberthaw Constr. Co., 80 Federal St., Boston. Archts. est. $250,000. Noted Feb. 25.

Mass., Westfield — FACTORY — Foster Machine Co., South Broad St., 3 story, 80 x 235 ft., brick addition, to E. J. Pinney Inc., 220 Dwight St., Springfield. Archts. est. $200,000.

Mass., West Roxbury (Boston P. O.) — REPAIR and SERVICE GARAGE—J. J. Kelleher, 179 Summer St., Boston, 1 story, 100 x 110 ft., 5314 Washington St., here, to C. Eklund, Long Pond Terrace, Lowell. Archts. est. $65,000.

Mass., Worcester — REPAIR SHOP and GARAGE — Mack Motor Truck Co., 75 North Beacon St., Boston, brick and steel, Shrewsbury St., to J. W. Bishop Co., 109 Foster St. Archts. est. $125,000. Noted Feb. 25.

R. I., Apponaug — TEXTILE PLANT — Apponaug Finishing Co., Centerville Rd., 2 story, 82 x 95 ft., brick and steel, to A. W. Marchant, Inc., Hospital Trust Bldg., Providence. Archts. est. $55,000.

R. I., Bristol—MILL—Cranston Worsted Co., Thames St., 4 story, 135 x 140 ft., brick, Thames St., to P. J. Flynn, 17 Exchange St., Providence. Archts. est. $225,000. Noted Mar. 25.

Conn., Hartford — GARAGE—Nirenstein & Schwartz, 1247 Main St., 1 story, 61 x 154 ft., brick and steel, North Main St., to S. Rogoff, 487 Main St. Archts. est. $40,000.

N. J., Camden — SERVICE STATION—F. Seelye & Co., engrs. and archts., 101 Park Ave., New York City, 1 story and basement, 190 x 252 ft., rein.-con., brick and steel, plain foundation, 6th and Jefferson Sts., to Nelson-Pedley Co., Corn Exch. Bldg., Phila., Pa. Noted Feb. 25.

Pa., Phila.—SUB-STATION—Phila. Electric Co., 10th and Chestnut Sts., 1 story and basement, 60 x 135 ft., rein.-con., plain foundation, Waverly and Juniper Sts., to H. H. Conway, 5800 Walnut St.

Pa., Phila.—MANUFACTURING—Phila. Storage Battery Co., C and Ontario Sts., 3 story and basement, 54 x 250 ft., rein.-con. and brick addition, to Roberts & Roller, 1700 Walnut St. Noted Apr. 1.

Pa., Phila. — MILL — E. A. Wightmah, archt., Bankers Trust Bldg., 2 story and basement, 100 x 100 ft., rein.-con., brick and steel, plain foundation, A and Courtland Sts., to H. H. Wehmeyer, 509 West Cumberland St., for Concordia Silk Hosiery Co., Fisher and Wyoming Sts. Archts est. $100,000. Noted Mar. 11.

Pa., Phillipsburg — PLANT — Ingersoll-Rand Co., 11 Bway., New York City, N. Y., rein.-con., brick and steel addition, to R. T. and C. D. Stewart Contg. Co., Center Sq., Easton. Archts. est. $50,000.

La., Powderly — CEMENT PLANT — Phoenix Portland Cement Co., general contract 1 story, 60 x 348 ft. cement plant, steel and tile, to J. F. Holley Constr. Co., 817 19th St., Ensley.

Tenn., Nashville — CAN FACTORY — Federal Can Co., 500 Benton Ave., 1 story, steel frame factory, Benton Ave., to Gould Constr. Co., 120 11th Ave. N., approximately $50,000.

O., Cincinnati—INDUSTRIAL—Formica Insulation Co., 4614 Spring Grove Ave., 2 story, brick and rein.-con. addition, plain foundation, Spring Grove, to Ferro Concrete Co., 3rd and Elm Sts., $40,000.

O., Cincinnati — INDUSTRIAL — Steinkoenig Motor Truck Co., 2311 Harrison Ave., 2 story and basement, 90 x 150 ft., brick and rein.-con., plain foundation, Harrison St., to D. Meinken & Son, 2143 Barnard St., $65,000.

O., Dayton — BAKERY — White Baking Co., Indianapolis, Ind., 3 story 50 x 133 ft., and 1 story, 133 x 260 ft., brick and rein.-con., Webster St., here, to H. R. Blagg Co., 1229 East 3rd St., $175,000.

Ia., Des Moines — PLANT — J. A. Raymaker, archt. and consult. engr., c/o Wood Bros. Thresher Co. (owner) East 20th and Washington Sts., 304 x 500 ft. manufacturing building with office wing at one end, covering 15,000 sq.ft. floor space, brick and steel, to Truscon Steel Co., 471 Hubbell Bldg. Archts. est. $250,000. Noted Mar. 4.

Ia., Iowa City—POWER and HEATING PLANT—State Bd. Educ., W. H. Gemmell, secy., State House, Des Moines, general contract 1 story, 120 x 210 ft., rein.-con., to A. Alexander, 503 Frankel Bldg., Des Moines, $238,000. Noted Mar. 4.

Ia., Mason City — DAIRY PLANT — Producers Milk Co., C. J. Stewart, local mgr., will build 1 story, 50 x 100 ft., brick and hollow tile dairy plant, by day labor. $40,000.

Ark., Eldorado—FLOUR MILL—Taylor Made Health Flour Co., C. E. Taylor, pres., will build 2 story, 30 x 50 ft., concrete, brick and steel, East Main St., by day labor. Archts. est. $45,000. Private plans.

Tex., Cleburne—SHOPS—Gulf, Colorado & Santa Fe Ry. Co., E. F. Merrit, ch. engr., 408 Union Depot Bldg., Galveston, 122 x 155 x 517 ft. boiler house and blacksmith shop, both steel and metal sash, to Anderson Bros., El Paso; plumbing and heating to Donnelly & White, 905 Congress Ave., Austin, about $37,000. Archts. total est. $505,000. Noted Mar. 11.

Tex., Houston—TEXTILE MILL—Houston Textile Mill Co., c/o W. A. Mitchell, supt., 2 story callon mill addition, rein.-con. and brick, also 1 story, rein.-con. addition to mill building, to G. C. Street, Constr. Co., National and Center Sts., $100,000.

Que., Three Rivers—PAPER MILL—St. Lawrence Paper Co. Ltd., brick and steel addition, St. Lawrence St., to E. G. Cape & Co., 10 Cathcart St., Montreal. Archts. est. $2,000,000. Noted Apr. 8.

Buildings—Educational, Religious

Proposed Work

Me., Bangor—SCHOOL—St. Johns Roman Catholic Church having sketches made by O'Connell & Shaw, 134 Newbury St., Boston, 2 or more story, brick and stone, James St. $150,000.

Mass., Arlington (br. Boston) — HIGH SCHOOL — Town, School Com., plans Junior High School, 2 story and basement, brick and stone, Tufts St. To exceed $150,000. Engineer and architect not selected.

Mass., Boston — LIBRARY — City, Dept. Pub. Buildings, plans library, Ward 2. $150,000 or more. Engineer and architect not selected.

Mass., Boston—SCHOOL—Cathedral of Holy Cross, W. B. Finigan, pastor, having plans prepared by E. T. P. Graham, 3 story and basement, 120 x 150 ft., brick, Malden St., South End Dist. $200,000.

Mass., Boston—SCHOOL—City, Schoolhouse Dept., having sketches made by J. Driscoll, 6 Beacon St., 6 story and basement, 60 x 115 ft., brick and limestone school. $1,500,000.

Mass., Everett (Boston P. O.)—SCHOOL—City of Boston, Schoolhouse Dept., plans 2 story and basement, brick school, here. $185,000 appropriated. Engineer and architect not selected.

Mass., Fitchburg — SCHOOL — St. Bernards Roman Catholic Parish J. J. Donnelly, pastor, having preliminary plans prepared by J. W. Donohue 476 Main St., Springfield, brick and steel, Summer St. $150,000.

Mass., Medford (Br. Boston)—SCHOOL—City, C. H. Lowell, chn. com., 32 Irving St., plans 2 story and basement, brick and stone, Ash and Webster Sts. $300,000. Engineer and architect not selected.

Mass., Rockland—SCHOOL—Town, School Com., C. Easton, chn., having sketches made by J. D. LeLand & Co., 41 Mt. Vernon St., Boston, 2 story and basement, brick and stone, James St. $150,000.

Mass., Waltham (Ind. br. Boston)—CHURCH — Lakeview Union Evangelist Church, c/o O. A. Thayer, archt., 89 Franklin St., Boston, having sketches made 1 story and basement, granite and stone, Lakeview St., here. $150,000-$200,000.

Mass., Waltham (Ind. br. Boston) — SCHOOL—City, H. E. Beal, mayor, City Hall, soon lets contract 3 story and basement, brick and steel, Parmenter Rd. $400,000. Hutchins & French, 11 Beacon St., Boston, archts.

Mass., Worcester—DORMITORY—Polytechnic Institute, having preliminary plans prepared by W. C. Appleton, 53 State St., Boston, brick dormitory. $240,000.

Conn., New Haven—GYMNASIUM, etc.—Yale University having plans prepared by J. R. Pope, 542 5th Ave., New York City, gymnasium, York St. opposite Wall St.; by C. C. Zantzinger, Otis Bldg., Phila., Pa., auditorium, West Side Hewitt Quadrangle; and by James Gamble Rogers, 367 Lexington Ave., New York City, law school, Wall, York, Grove and High Sts.

N. Y., Bayport—SCHOOL—Bd. Educ. having plans prepared by W. Potter, engr. and archt., 22 East 17th St., New York City, brick, steel and stone, plain foundation. $250,000.

N. Y., Brooklyn — CHURCH — St. John the Evangelist Roman Catholic Church, c/o McGill & Hamlin, engr. and archt., 415 Lexington Ave., New York City, soon takes bids brick, steel and stone, plain foundation, 21st St., here. $200,000.

N. Y., Brooklyn—LABORATORY—Pratt Institute, 215 Ryerson St., plans brick, steel and stone, plain foundation, Steuben St. $300,000.

N. Y., Hollis (br. Jamaica)—CHURCH—Hollis Presbyterian Church, F. T. Steel, pastor, having plans prepared by Meyer &

Buildings—Educational, Religious (Cont.)

Mathew, engrs. and archts., 316 Flatbush Ave., Brooklyn, brick, steel and stone, plain foundation, 104th Ave. and 190th St. $150,000.

N. Y., Newburgh—HIGH SCHOOL—Bd. Educ. soon takes bids brick, steel and stone, plain foundation. $400,000. A. F. Gilbert, 358 5th Ave., New York City, engr. and archt. Noted Feb. 11.

N. Y., New York — CHEMISTRY — New York University, University Heights, soon takes bids brick, steel and stone, plain foundation, campus. $150,000. A. N. Allen, 2 West 45th St., engr. and archt.

N. Y., New York — HOME — Hebrew Childrens Home of Temporary Shelter, 30 West 120th St., plans brick, steel and stone, plain foundation, 205th St. and Grand Concourse. $250,000. Engineer and architect not selected.

N. Y., New York—SYNAGOGUE—Mount Eden Center, Inc., c/o A. J. Simberg, engr. and archt., 1133 Bway., having plans prepared 3 story, brick, steel and stone, plain foundation, Morris Ave. $200,000.

N. Y., St. George—SCHOOL—Bd. Educ., 500 Park Ave., New York City, having plans prepared by W. H. Gompert, engr. and archt., Flatbush Ave. extension and Concord St., Brooklyn, P. S. 45, brick, steel and stone, plain foundation, Morrison Ave., here. $300,000.

N. J., Bernardsville—HIGH SCHOOL—Bd. Educ. soon takes bids brick, steel and stone, plain foundation. $200,000. Rasmussen & Wayland, 36 West 47th St., New York City, engr. and archt. Noted Feb. 25.

Pa., Tyrone—CHURCH—First Methodist Church, c/o J. B. Nason, chn. building com., 1207 Logan Ave., plans 2 story and basement, 80 x 100 ft. church, Logan Ave. $150,000.

Fla., Port Tampa — SCHOOL — Voted $150,000 bonds, school.

O., Cleveland—SCHOOLS—Bd. Educ., F. G. Hogen, dir., had plans prepared by G. M. Hopkinson, Auditorium Garage Bldg., three 2 story and basement, 120 x 220 ft., rein.-con., brick and steel schools, one at West 54th St. and Ira Ave., one Southeast section, and other East 185th St. and Muokoka Ave. $650,000 each.

Ill., Alton—HIGH SCHOOL—Bd. Educ., H. H. Hewitt, secy., 6th and Langan Sts., takes bids about May 10, 3 and 4 story, rein.-con., brick and stone, College St. $500,000. L. Pfeiffenbergers Sons, 102 West 3rd St., Alton, and Royer, Danely & Smith, Flat Iron Bldg., Urbana, archts. Noted Dec. 31.

Calif., Modesto—HIGH SCHOOL—Defeated $650,000 bonds, fireproof high school, for Modesto School Dist. Noted Feb. 25.

Bids Desired

Me., Orono — MECHANICAL and ENGINEERING — University of Maine, F. H. Strickland, pres. of Bd., taking bids 2 story and basement, brick and limestone mechanical and engineering building. To exceed $150,000. Strickland, Blodgett & Law, 20 Newbury St., Boston, archts. Noted Aug. 6.

Mass., Amesbury—SCHOOL—St. Josephs Roman Catholic Church taking bids 2 story and basement, brick and stone, plain foundation, 13 Sparhawk St. $150,000. O'Connell & Shaw, 134 Newbury St., Boston, archt.

Mass., Wellesley — CHURCH — Christian Scientist Church, c/o E. W. Deering, archt., 10 Deaconess Rd., Brookline, taking bids 1 story and basement, stone and stucco, plain foundation, Wellesley Hills. $150,000.

Conn., New Canaan—HIGH SCHOOL—J. N. Pierson & Sons, archts., 200 Jefferson St., Perth Amboy, N. J., taking bids brick, 600 seating capacity, here, for School Com., S. Mead, chn. $150,000. Noted Mar. 18.

Conn., Wallingford—ADMINISTRATION—Apr. 16, by Gaylord Sanatorium, D. R. Lyman, doctor, 3 story, 45 x 126 ft., stone and tile administration building. $150,000. J. F. Kelley, 39 Center St., New Haven, archt. Noted Feb. 4.

N. Y., Corning—HIGH SCHOOL—May 3 (extended date), by Bd. Educ., brick, steel and stone, plain foundation, Kingsburg Ave. $350,000. Palmer Rogers, 101 Park Ave., New York City, engr. and archt. Noted Apr. 8.

N. J., Union—SCHOOL—Apr. 26, by Bd. Educ. Union Twp., at Union High School, Morris Ave. and Caldwell Pl., 2 story and basement, 60 x 120 ft., Burnett Ave. F. A. Elsasser, 845 Broad St., Newark, archt.

Pa., Jeffersonville—SCHOOL—Apr. 16, by West Norristown School Dist., 2 story and basement, 115 x 144 ft., brick and steel, plain foundation. $200,000. G. E. Brumbaugh, Real Estate Trust Bldg., Phila., archt.

Pa., Phila.—SCHOOL—Apr. 20, by J. T. Windrim, archt., Commonwealth Bldg., Graduate School of Medicine, 10 story, basement and parapet, 54 x 60 ft., and 64 x 135 ft., rein.-con., brick and steel, plain foundation, 19th and Lombard Sts., for University of Pennsylvania, 34th and Spruce Sts. $1,500,000.

Pa., Wynnewood—SCHOOL—Apr. 19, by School Bd. Lower Merion Twp., 2 story and basement, 91 x 174 ft., and 42 x 188 ft., brick and rein.-con., plain foundation, Argle Rd. $175000. R. E. White Penna Bldg., Phila., archt.

Md., Baltimore — SCHOOL — Apr. 21, by Bd. Awards, 1 story and basement 73 x 239 ft., brick and steel, plain foundation, Arlington St. at West and Alto Aves., for Mayor and City Council. $325,000. R. L. Harris, 516 North Charles St., archt.

O., Marysville—DORMITORY and ASSEMBLY HALL—May 5, by J. E. Harper, dir. Dept. Pub. Welfare, Oak and 9th Sts., Columbus, 50 x 200 ft., brick and concrete dormitory, $120,000, and 40 x 50 ft., brick and steel assembly hall, $65,000, for Ohio Reformatory for Women, here. H. H. Briggs, Ohio-Hartman Bldg., Columbus, archt. Noted Mar. 4.

Mo., Cape Girardeau—SCHOOLS—Apr. 19, by Bd. Educ., L. L. Bowman, pres., two 2 story, 46 x 70 ft. wings for May Green School, $45,000; 2 story and basement, 80 x 164 ft. addition to Washington Grade School, $90,000; and 2 story and basement, 122 x 185 ft. school, Louisiana and West Thamis Sts. $145,000, all concrete, brick and stone. Noted Mar. 4.

Mo., Kansas City — HIGH SCHOOL — Apr. 20, by Bd. Educ. (2nd unit) South West High School, 2 story, rein.-con., brick and cut stone. $350,000. C. A. Smith, 800 Finance Bldg., archt. Noted Apr. 8.

Ark., Fayetteville—COLLEGE—Apr. 28, at office President University of Arkansas, for Engineering Building, 88 x 216 ft. and Agricultural Building, 58 x 256 ft., both 3 story, concrete, brick and terra cotta, on campus. Jamieson & Spearl, Arcade Bldg., St. Louis, Mo., and H. R. Burke, Southern Trust Bldg., Little Rock, archts. Noted Apr. 8.

Calif., Los Angeles—SCHOOL—Apr. 21, by Bd. Pub. Wks., Riis School, 1 and 2 story, brick, 69th St. near Main St. $250,000. Dodd & Richards, Brack-Shops Bldg., archts. Noted Apr. 8.

Bids Received

N. Y., Hollis (mail Jamaica)—SCHOOL—W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, Apr. 8, general contract P. S. 118, Wildey Ave., here, for Bd. Educ., 500 Park Ave., New York City, from G. F. Driscoll Co., 548 Union Ave., Brooklyn, $289,387; heating, from H. Starkman & Bros., 333 East 81st St., New York City, $35,160. Noted Apr. 1.

N. Y., Mariners Harbor (Ind. sta. Staten Island)—SCHOOL—W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, general contract P. S. 44, Maple Parkway, here, for Bd. Educ., 500 Park Ave., New York City, from Carleton Co., Inc., 151 West 42nd St., New York City, $624,333; plumbing from J. E. Kahn, 244 West 20th St., New York City, $27,390; and heating, from D. J. Rice, Inc., 606 1st Ave., New York City, $68,817. Noted Apr. 1.

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., Apr. 6, 3 story and basement, 36 x 159 ft., rein.-con., brick and steel, 17th and Folsom Sts., general contract, from McCloskey Co., 1620 Thompson St., $329,000; and heating, from McClintock Co., 1937 Ridge Ave., $29,495. Noted Apr. 1.

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt. buildings, 19th and Chestnut Sts., 3 story and basement, 141 x 212 ft., rein.-con. and brick, plain foundation, Lyons Ave. and Brunswick St., general contract, from Nelson Pedley Co., Corn Exch. Bldg., $463,452; heating, from W. H. Ambrose & Son, Levington and Umbria Sts., $43,980. Noted Apr. 1.

Contracts Awarded

N. Y., Buffalo—CHURCH and SCHOOL—St. Rose of Lima Roman Catholic Church, 42 Carmel Rd., 2 story and basement, rein.-con. and brick, Carmel Rd., to G. Kemff & Sons, 821 Virginia St., to exceed $300,000. Noted Mar. 4.

N. Y., New York—NURSES HOME—Building Com. Presbyterian Hospital, 17 East 42nd St., 14 story, brick, steel and stone, plain foundation, 165th St. [illegible] Washington Ave., to Marc Eidlitz, [illegible] East 42nd St. Archts. est. $1,500,000. Noted Dec. 17.

N. Y., Riverdale (mail New York)—CHURCH—Presbyterian Church, 1 and 2 story, brick, to G. Olson, 5626 [illegible] Rd. Archts. est. to exceed $150,000.

N. J., Maplewood (br. South Orange)—HIGH SCHOOL—Bd. Educ., Dist. South Orange and Maplewood, New High School, general contract 3 story and part basement, rein.-con., brick and steel, here, to Bowe & Millimet, 386 Bergenline Ave., Union Hill, $1,216,000; heating and ventilating, to J. H. Melles, 832 Springfield Ave., $124,780. Noted Mar. 11.

O., Dayton—SCHOOL—C. J. Schmidt, clk.-treas. Bd. Educ., for Harrison School, 2 story and basement, rein.-con. and brick, plain foundation, West Side, to Green & Sawyer, Piqua and Lima, $322,000. Noted Feb. 25.

Ill., Chicago — HIGH SCHOOL — Bd. Educ., 650 South Clark St., J. E. Barnes, bus. mgr., general contract Roosevelt Senior High School, 3 story and basement, 300 x 650 ft., rein.-con., brick and stone, Kimball and Wilson Aves., to Paschen Bros., 111 West Washington St. Archts. est. $4,000,000.

Ill., Chicago—INSTITUTE—E. A. Grunsfeld, Jr., and E. H. Klaber, archts., 431 North Michigan Ave., masonry, concrete and carpentry contract 3 story and basement, 147 x 188 ft., rein.-con., brick and steel, Douglas Blvd. and St. Louis Ave., to Broline-Nolan Co., 5 North La Salle St., for Jewish Peoples Institute, 1258 Taylor St. Noted Nov. 19.

Federal Government Work

Bids Desired

Pa., Phila.—Paving—Spec. 5207—Apr. 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete paving, here.

D. C., Wash.—Gate Chambers—May 11, by U. S. Engineer Office, Navy Building, cross-connection gate chambers and repairs to old conduit for water supply project, for Dist. of Columbia; adv. E. N.-R. Apr. 15.

D. C., Wash. — Pipe Line — May 14, by U. S. Engineer Office, Navy Dept. Bldg., pipe line from old filtered water reservoir for water supply project for Dist. of Columbia; adv. E. N.-R. Apr. 15.

Va., Norfolk—Fenders—Apr. 22, by G. F. Blair, dist. dir. United State Shipping Board Emergency Fleet Corp., approximately 6,900 lin.ft. fender system.

Ga., Augusta—Recreation—May 18, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., recreation building at U. S. Veterans Hospital, 62, here; adv. E. N.-R. Apr. 15.

Arizona—Road—Apr. 26, by C. H. Sweetser, dist. engr. Bureau Pub. Rds., Phoenix, grading, etc., approximately 2.916 mi. Cherry Creek Hill Sect. Forest Highway Route 12, Natl. Forest Rd. Project, Tonto Natl. Forest, Gila Co.

Ore., Astoria — Addition — Apr. 29, by Treas. Dept. at office Supervising Archt., Wash., D. C., addition to Quarantine Station, here.

C. Z., Panama—Masts—Spec. 5191—Apr. 23, by Bureau Yards & Docks, Navy Dept., Wash., D. C., guyed steel pipe masts at Cape Mala, here. Former blds rejected. Noted Mar. 11.

Bids Received

N. Y., Staten Island—Ejector Station, etc.—Construction Quartermasters Office, 39 Whitehall St., New York City, Mar. 25, sewage ejector station and discharge sewer line at Miller Field, here, from J. R. Proctor, 6 West 9th St., Bayonne, N. J., $56,707. Noted Mar. 11.

Iowa—Earthwork—Secretary Mississippi River Comn., 1311 International Life Bldg., St. Louis, Mo., Apr. 6, about 180,000 cu.yd. earthwork (by hydraulic method) in Iowa River-Flint Creek Dist., from La Crosse Dredging Co., 405 Plymouth Bldg., Minneapolis, Minn., $0.1875 per cu.yd. Noted Mar. 18.

Ia., Cedar Rapids—Vestibule, etc.—Treas. Dept. at office Supervising Archt., Wash., D. C., extending mailing vestibule and driveway at U. S. Post Office, here, from A. J. Smith & Sons, 234 Granby St., $3,490. Noted Apr. 1.

Tex., Abilene—Addition—Treas. Dept. at office Supervising Archt., Wash., D. C., Apr. 6, swing room, etc. at U. S. Post Office, here, from C. Weltz Son, 713 Mulberry St., Des Moines, Ia., $1,950. Noted Mar. 25.

Federal Government Work (Continued)

Colo., Denver—Gates—Bureau Reclamation, Dept. Interior, E. Mead, comr., high pressure gates for McKay and Guernsey Dams, North Platte Project, Nebraska-Wyoming, from Baker Iron Wks., 912 North Bway., Los Angeles, Calif., $26,315. Noted Mar. 4.

Contracts Awarded

Mass., Lynn—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here, to S. Pasquale, 8 Bartlett Pl., Boston, $14,950. Noted Apr. 8.

Pa., McKeesport — Remodeling — Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here, to Landes Constr. Co., P. O. Box 202, Charleston, W. Va., $5,400. Noted Apr. 8.

La., New Orleans — Discharge Pipe — U. S. Engineer Office, 329 Custom House, shore discharge pipe, f.o.b. New Orleans, to Alex Bussel Iron Wks., New Orleans, $2,299.

Ill., Great Lakes (br. Waukegan) — Ash Handling System — Spec. 5184 — Bureau Yards & Docks, Navy Dept., Wash., D. C., ash handling equipment, for Naval Training Station, here, to United Conveyor Corp., 37 West Van Buren St., Chicago, $5,066 (120 days). Noted Apr. 1.

Wis., Milwaukee — Cement — U. S. Engineer's Office, 20,300 bbl. Portland cement, to W. H. Pipkron Co., 712 Park St., $41,920. Noted Mar. 25.

Wis., Milwaukee—Steel Bars—U. S. Engineer's Office, 908,630 lb. steel reinforcing bars, to Calumet Steel Co., 208 La Salle St., Chicago, Ill., $18,056.

Mo., St. Louis—Barges—U. S. Engineers Office, 428 Customhouse, 20 small steel barges used by St. Louis Div., U. S. Engineering Corps., to Dravo Constr. Co., Neville Island, Pittsburgh, Pa., $49,600. Noted Apr. 8.

Calif., Eureka—Radio Tower—Spec. 5161 —Bureau Yards & Docks, Navy Dept., Wash., D. C., 125 ft. radio tower, to Eureka Boiler Wks., foot of T St., $2,850 (120 days). Noted Mar. 25.

Calif., San Diego—Sewer—Spec. 5189—Bureau Yards & Docks, Navy Dept., Wash., D. C., outfall sewer at Destroyer base, here, to H. H. Peterson, 356 Spreckles Bldg., $4,114. Noted Mar. 25.

T. H., Hilo—Breakwater—U. S. Engineer Office, Honolulu, constructing breakwater, here, to Hawaiian Dredging Co. Ltd., Honolulu, $1,328,640. Noted Jan. 21.

Unclassified

Proposed Work

Transmission Line — North Carolina — Carolina Power & Light Co., Raleigh, plans 35 or 40 mi. high tension line from Zebulon to Rocky Mount. A. W. Thompson, Raleigh, engr.

Stadium — Greensboro, N. C. — Stadium Com., c/o E. B. Jeffreys, mayor, take bids about Apr. 15, constructing concrete stadium, grading and tile draining of grounds, etc. $100,000. L. White, Greensboro, archt.

Playground—Algiers (New Orleans P. O.) **La.**—City of New Orleans, A. J. Keefe, City Hall, plans Behrman Memorial Playground, on west bank of Mississippi, here. $100,000.

Street Lighting System—Evanston, Ill.—Voted $925,000 bonds, street lighting system, incl. 3,100 lamp posts of 3 grades intensity, 2,276 lamps 250 cp. each, 489 lamps 400 cp. each, and 335 lamps 600 cp. each. A. W. Hanford, comr. Pub. Wks.

Subway—Highland, Ill.—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, and Pennsylvania R.R. Co., Broad St. Sta., Phila., Pa., A. C. Shand, ch. engr., plan subway to carry National Trail Rd. under railroad tracks, east of here. $65,000.

Transmission Line—Springfield, Ill.—Illinois Power & Light Co., 400 Esat Monroe St., plans revamping distribution lines in northwestern and western sections of city. $75,000. A. D. Mackie, genl. mgr.

Docks, etc.—Sioux City, Ia.—Sioux City Stock Yards Co., Exch. Bldg., having plans prepared 4 concrete unloading and 1 concrete loading docks, 240 new small and 60 large pens, 4 new scales and concrete road (fenced) around yards. $225,000. C. E. Apple, ch. engr.

Transmission Line—Missouri—Town of Argyle making plans 30 mi. 13,200 volt transmission line to supply towns of Meta, Koeltztown, Argyle, Freeburg and Westphalia. $85,000. W. S. Merkle, 414 North 12th St., St. Louis, engr.

Transmission Line—Missouri—Town of Lutesville made preliminary plans and surveys 32 mi. transmission line to supply towns of Delta, Altenville, Whitewater, Laflin, Leopold, Lutesville, Marble Hill, Glen Allen and Marquand. $150,000. W. S. Merkle, 414 North 12th St., St. Louis, engr.

Park Improvements — St. Louis, Mo. — Park Dept., Municipal Courts Bldg., F. W. Pape, comr., making preliminary plans installing portable bleachers, $7,500; grading and landscaping, $7,500; developing Francis Park $40,000, Manchester Park $20,000, and Christy Park $40,000; constructing roads and repairing bridges, $50,000; repairing buildings, $25,000; addition to greenhouses $30,000, restaurant $50,000 and refuse burning plant $15,000 in Forest Park; band stands $25,000; and extending water system $15,000.

Tourist Camp—San Antonio, Tex.—H. L. McCune, El Paso, making preliminary plans Camp Grande, brick, concrete and stucco, here. Private plans.

Stage Terminal—Oakland, Calif.—Calif. Transit Co., 36 5th St., San Francisco, having plans, prepared by Swartz & Hyland, Rowell Bldg., Fresno, 1 story, fireproof construction. $150,000.

Park Extension, etc. — San Francisco, Calif. — Plans to appropriate $3,000,000 funds, extending Golden Gate Park Panhandle; and $10,000 funds, extending boardwalk on Ocean Beach front. M. M. O'Shaughnessy, city engr.

Gas Holder—Stockton, Calif.—Western States Gas & Electric Co., Channel and Sutter Sts., plans 3,000,000 cu. ft. capacity gas holder, 185 ft. diam., and 150 ft. high.

Power Line — Ontario — Hydro Electric Power Comn. of Ontario, 190 University Ave., Toronto, plans extending 30 mi. power lines from Vittoria to St. Williams, Port Royal, Port Rowan, Clear Creek and Erieview. $100,000. F. A. Gaby, 190 University Ave., Toronto, engr.

Gas Mains — Sault Ste. Marie, Ont. — Great Northern Gas Co., 497 Queen St. E., plans gas mains, wrought iron and c.i. pipe, in various streets, and extending distribution system. $30,000.

Bids Desired

Arena — Boston, Mass. — New Boston Arena, H. G. Lapham, 238 St. Botolf St., taking bids 200 x 220 ft., concrete and steel arena addition. $160,000. Funk & Wilcox, 26 Pemberton Sq., archts.

Culverts—New Rochelle, N. Y.—May 3, by Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, grading and culverts, etc. for approach road from Pelham Rd. to Glen Island Park, here. J. Downer, ch. engr.; adv. E. N.-R. Apr. 15.

Scale Pit, etc.—New York, N. Y.—Apr. 23, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., constructing scale pit and foundations for coal pockets, in Lenox Ave. and 148th St. Yard.

Pier—Phila., Pa.—Apr. 21, by City, c/o G. F. Sproule, city dir., Municipal Pier 4, South Wharves foot of Chestnut St., substructure Pier 80, 1,000 ft. long and 280 ft. wide, incl. piles, decking, concrete bulkheads, dredging, etc., Jackson St.

Grain Silos—Milwaukee, Wis.—Chicago, Milwaukee & St. Paul R.R. Co., Union Sta., Chicago, Ill., C. F. Loweth, ch. engr., taking bids rein.-con., brick and steel silo, 6th Ave., here. $500,000.

Wharves and Piers—Galveston, Tex.—See "Contracts Awarded."

Transmission Line — Arkansas — See "Contracts Awarded."

Swimming Pool—Beverly Hills, Calif.—See "Buildings—Commercial."

Subway—Toronto, Ont.—Apr. 21, by J. R. W. Ambrose, ch. engr. Toronto Terminals Ry. Co., New Union Sta., concrete and steel subways at Bay and York Sts., also rein.-con. concourse in front of New Union Station. $2,500,000.

Bids Received

Fieldhouse, etc.—New York, N. Y.—Park Bd., F. D. Gallatin, pres., Arsenal Bldg., Central Park, 64th St. and 5th Ave., Apr. 8, field house and comfort station, in Hamilton Pl. Park, from J. Riley, 118 West 64th St., $16,200. Noted Apr. 1.

Retaining Wall—Cleveland, O.—City, W. R. Hopkins, city mgr., 3,200 ft. retaining wall along Doan Brook in Rockefeller Park, from P. H. DeSantis & Co., 8019 Hough Ave., $52,564 and $67,009. Noted Mar. 25.

Grade Separation — Detroit, Mich. — Wayne Co. Rd. Comn., Real Estate Exch. Bldg., grade separation to carry highway beneath double track railway at South Dearborn Rd. and Pennsylvania R.R. tracks, 105,000 cu.yd. excav., 16,370 sq.yd. concrete paving, 31,330 sq.ft. concrete sidewalk, etc., from H. E. Culbertson Co., Hanna Bldg., Cleveland, O., $178,454.

Culverts—Holton, Kan.—Clerk Jackson Co., culverts on Federal Aid Project 291-A, B, C, D and E, from Grundeman Bros., Netawaka, $33,337. Noted Mar. 4 under "Streets and Roads."

Contracts Awarded

Swimming Pool — South Lawrence (mail Lawrence), **Mass.** — City of Lawrence, swimming pool, here, to W. J. Delaney, 283 Essex St., Lawrence, $53,522. Noted Apr. 8.

Stable, etc.—Brooklyn, N. Y.—Armory Bd., J. B. Trainer, secy., City Hall, additional stables and storage accommodation at armory of 101st Cavalry, 1579 Bedford Ave., to Eastern Constr. Co., 110 West 40th St., New York City, $95,900. Noted Apr. 8.

Grade Separation — Detroit, Mich. — Wayne Co. Rd. Comn., Real Estate Exch. Bldg., grade separation incl. depressing highway under railroad tracks at South Dearborn Rd. and Penn. R.R., 105,000 cu.yd. excav., 16,370 sq.yd. concrete paving, 31,330 lin.ft. concrete sidewalk, etc., to H. E. Culbertson Co., Hanna Bldg., Cleveland, $178,455.

Culverts — Larned, Kan. — See "Streets and Roads."

Coaling Station—Archie, Mo.—See "Railways under Missouri."

Coaling Station—Centerview, Mo.—See "Railways under Missouri."

Swimming Pool — Alpine, Tex. — C. Edwards, 30 x 150 ft. rein.-con. swimming pool, to H. Weyerts, Alpine, approximately $28,000.

Stadium—Dallas Tex.—Southern Methodist University c/o C. C. Selecmas, pres., and L. W. Bailey, bus. mgr., 132 x 260 ft. stadium, 50 ft. high, brick and rein.-con. Abilene Rd. and Mockingbird Lane, to Walson Co., 1927 South Akard St. $120,000. Noted Jan. 21.

Wharves and Piers—Galveston, Tex.—Galveston Wharf Co., E. M. Gorsrau, mgr., 2324 Ave. B., will build rein.-con. and steel wharves and piers, by day labor. $1,500,000. R. M. Sias, 23-24 Ave. B, engr.

Foundation — Los Angeles, Calif. — Apr. 19, by Bd. Pub. Wks., foundation for supporting structural steel frame work for new city hall, North Main St. between Temple and 1st Sts. Contract for steel, recently awarded to McClintic-Marshall Co., 426 South Spring St. Noted Mar. 12.

Steel Tanks—Toronto, Ont.—Dominion Tar & Chemical Co., foot of Logan Ave., two 250,000 Imperial gal. steel tanks, piling and concrete foundations, to J. E. Russell Constr. Co., Reford Bldg.; steel tanks, to Toronto Iron Wks., foot of Cherry St. Engrs. est. $40,000.

Materials

Bids Desired

Sewer Bricks—Boston, Mass.—Apr. 30, by Supply Dept., 260,000 sewer bricks. F. L. Brier, supt.

Lumber, etc.—New York, N. Y.—Apr. 23, by P. J. Dooling, comr. Purchase, Municipal Bldg., lumber and piles; also portable air compressor on 1 ton Ford chassis to Bureau Water Supply, Gas & Electricity.

Pipe, etc.—Lewistown, Pa.—Apr. 22, by Boro Council, H. E. Fetterolf, secy., 466 ft. 10 in., 1,500 ft. 8 in., and 4,200 ft. 6 in. terra cotta pipe, 15,000 red brick (wire cut) for manholes, also one hundred each 8 x 6 Y branches, and 6⅛ in. curves, etc.

Gravel and Sand—Minneapolis, Minn.—Apr. 19, by F. S. Gram, city purch. agt., 3,500 cu.yd. washed concrete sand and 7,000 cu.yd. crushed gravel. N. W. Elsberg, city engr.

Road Oil—St. Paul, Minn.—Apr. 19, by G. J. Reis, aud. Ramsey Co., 300,000 gal. road oil. P. N. Coates, 900 Guardian Life Bldg., engr.

Bids Received

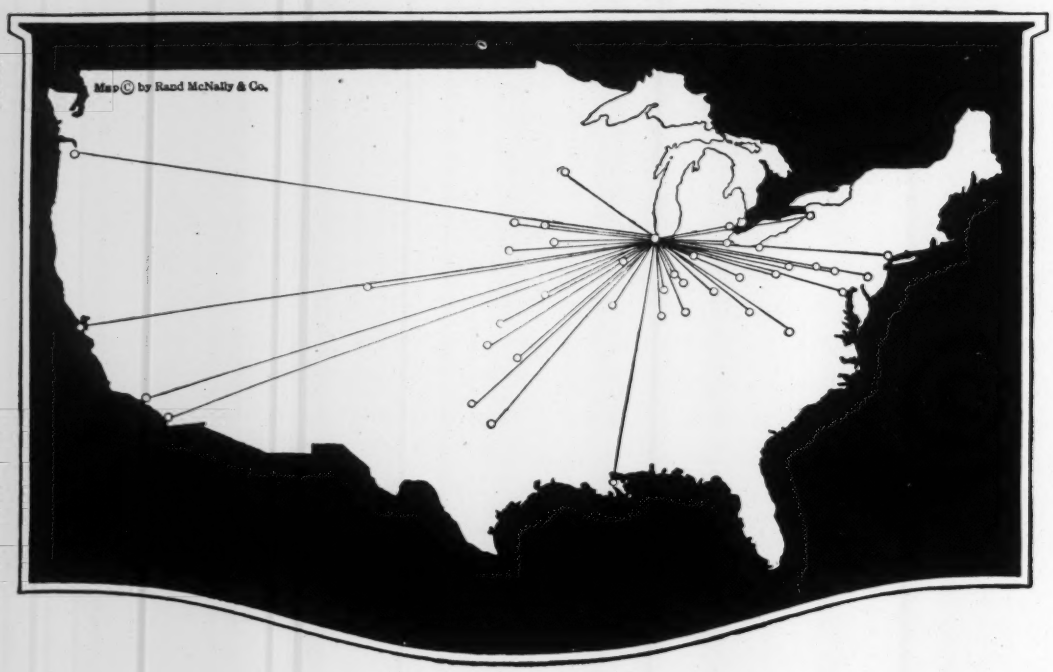
Tar—Cincinnati, O.—Hamilton Co., Court House, 300,000 gal. Grade 1 tar to Road Repair Dept., from Barrett Mfg. Co., 517 Carr St., $32,250. Engrs. est. $33,000.

Contracts Awarded

Pipe—Boston, Mass.—Dept. Supplies, City Hall Annex, 100,000 lb. 4 in. c.i. pipe, 6 ft. lengths, to U. S. Cast Iron Pipe & Fdry. Co., Morris Bldg., Phila., Pa. $4,300.

Trap Rock—Minneapolis, Minn.—F. S. Gram, city purch. agt., 4,500 cu.yd. trap rock, to Trap Rock Co., Bway. and K St., $1.75 per ton for 2.5 in., and $2.25 for ⅝ in. Noted Mar. 11.

See proposal advertising on page 128, Advertising Section



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CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Street widening, Chicago, Ill., city voted bonds for $12,500,000 for street widening.

Office and store, Chicago, Ill., E. Jackson, et al having plans prepared, $6,063,466.

Hotel, Theater, and Arena, Newark Arena and Amusement Corp. having plans prepared, $5,000,000.

Club house, Detroit, Mich., National Town and Country Club, having plans prepared, $4,000,000.

Bridges, Chicago, Ill., city voted $2,500,000 bonds for bridges.

Street lighting system, Chicago, Ill., city voted bonds for $2,250,000 for lighting system.

Street widening, Milwaukee, Wis., Dept. Pub. Wks. making plans for widening certain streets, $2,200,000.

Office, Boston, Mass., Fort Point Trust having sketches made for building, $2,000,000.

Toll cable line, Illinois, Illinois Bell Telephone Co. plans 175 mi. toll cable line, $2,000,000.

Viaduct, Milwaukee, Wis., city voted $1,800,000 bonds for viaduct.

Medical dormitory, Boston, Mass., Harvard University, having preliminary plans prepared, $1,500,000.

Apartment, New York, N. Y., J. Axelrod & Son having plans prepared, $1,500,000.

Bids Wanted

Convention hall, May 15, Atlantic City, N. J., city comrs., $5,000,000.

Dredging, Henderson, Miss., C. L. Schmidt & Co. of Chicago soon takes bids. Complete development, $3,000,000.

Depot, Texarkana, Tex., July 1, E. A. Hadley, ch. engr., Missouri Pacific R.R., $1,700,000.

Grading and paving, Benton, La., Bossier Parish takes bids about July 11, for road work, $1,630,000.

Tunnel, Oakland, Calif., May 14, Dirs. East Bay Municipal Utility Dist., $1,500,000.

Manufacturing, Philadelphia, Pa., General Electric Co. soon lets contract, $1,500,000.

Hospital, Boston, Mass., Apr. 30, Densmore, Le Clear & Robbins, archts., $1,000,000.

Contracts

Hydro-electric development, Chelan Falls, Wash., Chelan Electric Co. to Grant Smith & Co., $4,000,000.

Apartment, Chicago, Ill., Astor Building Co., to Lundoff-Bicknell Co., $2,000,000.

Warehouse, Cedar Rapids, Iowa, Quaker Oats Co. to Leonard Constr. Co., $2,000,000.

Power plant, Lewiston, Idaho, Inland Light and Power Co. to Winston Bros., $2,000,000.

Office, Pittsburgh, Pa., Pittsburgh Insurance Exchange to Boyle Robertson Co., $1,250,000.

Classified Index of Bids Wanted

Waterworks

Bids close — See Eng. News-Record

Apr. 24 Falmouth, Mass. .....Apr. 15
Apr. 24 Bexley (Columbus P. O.), O. .....Apr. 22
Apr. 26 Huntingdon, Pa. .....Apr. 15
Apr. 26 Norwalk, Conn. .....Apr. 8
Apr. 26 Buffalo, N. Y. .....Apr. 22
Apr. 26 Kohler, Wis. .....Apr. 22
Apr. 27 Bayonne, N. J. .....Apr. 22
Apr. 27 Grand Island, Neb. .....Apr. 22
Apr. 28 Bath, N. Y. .....Apr. 1
Apr. 28 Boston, Mass. .....Apr. 22
Apr. 29 Nyack, N. Y. .....Apr. 8
Apr. 29 Buffalo, N. Y. .....Apr. 22
Apr. 30 Hawthorne (Ind. br. Paterson), N. J. .....Apr. 15
Apr. 30 New Market, Va. .....Mar. 25
May 1 Lula, Miss. .....Apr. 22
May 3 Kewanee, Ill. .....Apr. 22
Adv. Apr. 22.
May 3 Jordan, Minn. .....Apr. 22
May 3 Haledon (mail Paterson), N. J. .....Apr. 22
Adv. Apr. 22.
May 11 Perry, N. Y. .....Apr. 15
May 14 Oakland, Calif. .....Apr. 22
May 18 Hagerstown, Md. .....Apr. 22
Adv. Apr. 22.
May 21 Oakland, Calif. .....Apr. 22
Adv. Apr. 22.

Sewers

Apr. 23 Oil City, Pa. .....Apr. 15
Apr. 24 Bexley (Columbus P. O.), O. .....Apr. 22
Apr. 26 Kohler, Wis. .....Apr. 22
Apr. 26 Chicago, Ill. .....Apr. 22
Apr. 27 New York, N. Y. .....Apr. 22
Apr. 27 Washington, D. C. .....Apr. 22
Apr. 28 Brooklyn, N. Y. .....Apr. 22
Apr. 28 Boston, Mass. .....Apr. 22
Apr. 29 Boston, Mass. .....Apr. 22
Apr. 29 Dayton, O. .....Apr. 22
Apr. 29 North Chattanooga (br. Chattanooga), Tenn. .....Apr. 1
Apr. 30 Oelwein, Ia. .....Apr. 22
Apr. 30 Boston, Mass. .....Apr. 22
Apr. 30 Wauwatosa, Wis. .....Apr. 22
May 3 Wanamingo, Minn. .....Apr. 22
May 3 South Portland, Me. .....Apr. 8
May 3 Kingston, Pa. .....Apr. 15
May 3 Jordan, Minn. .....Apr. 22
May 4 Mill Valley, Calif. .....Apr. 22
May 5 Miami Beach, Fla. .....Apr. 22
Adv. Apr. 22.
May 5 Arroyo Grande, Calif. ....Apr. 22
May 6 Bloomington, Ill. .....Apr. 8
May 7 North Plainfield (mail Plainfield), N. J. .....Apr. 22
Adv. Apr. 22.
May 13 Oklahoma City, Okla. .....Apr. 22
Adv. Apr. 22.

Bridges

Bids close — See Eng. News-Record

Apr. 27 South Dakota .....Apr. 15
Apr. 27 Vinton, Ia. .....Apr. 22
Apr. 27 Bridgewater, Mass. .....Apr. 22
Apr. 28 Rhode Island .....Apr. 15
Adv. Apr. 15 and 22.
Apr. 29 Louisiana .....Apr. 8
Apr. 29 Toledo, Ia. .....Apr. 22
Apr. 30 Olathe, Kan. .....Apr. 8
Apr. 30 Duluth, Minn. .....Mar. 25
May 1 Val Morin, Que. .....Apr. 8
May 3 Morgantown, W. Va. .....Apr. 8
May 3 Los Angeles, Calif. .....Apr. 22
May 3 California .....Apr. 22
May 4 Maine .....Apr. 8
May 5 Miami Beach, Fla. .....Apr. 22
May 5 Anamosa, Iowa .....Apr. 22
May 7 Dayton, O. .....Apr. 15
May 10 Jacksonville, Fla. .....Apr. 15
Adv. Apr. 15 and 22.
May 11 Louisiana .....Apr. 15
May 11 Bourg, La. .....Apr. 22
May 15 Paducah, Ky. .....Apr. 22
Adv. Apr. 22.
May 15 Anderson, Ind. .....Apr. 8
May 19 Minneapolis, Minn. .....Apr. 8

Dams

Apr. 29 Norwich, Conn. .....Apr. 15

Excavation, Drainage, Irrigation, Levees, River and Harbor

Apr. 23 Albany, N. Y. .....Apr. 8
Apr. 27 New York .....Apr. 1
Adv. Apr. 1 to 22.
Apr. 27 Port Arthur, Ont. .....Apr. 22
Apr. 29 Appleton, Wis. .....Apr. 22
Apr. 29 Fire Island (mail Babylon), N. Y. .....Apr. 15
Adv. Apr. 15 and 22.
May 1 Grass Valley, Calif. .....Apr. 22
May 3 Lancaster, N. Y. .....Apr. 22
May 8 Sycamore, Ill. .....Apr. 22
May 24 Buffalo, N. Y. .....Apr. 22
Adv. Apr. 22.

Streets and Roads

Apr. 23 Cincinnati, O. .....Apr. 22
Apr. 24 Lewisville, O. .....Apr. 15
Apr. 26 Indianapolis, Ind. .....Apr. 8
Apr. 26 Lawrenceville, Ill. .....Apr. 15
Apr. 26 Altoona, Pa. .....Apr. 22
Apr. 26 Nebraska .....Apr. 22
Apr. 26 Brookline (br. Boston), Mass. .....Apr. 22
Apr. 26 Clearfield, Pa. .....Apr. 22
Apr. 26 Stanberry, Mo. .....Apr. 22
Apr. 26 Flint, Mich. .....Apr. 22
Apr. 27 South Dakota .....Apr. 22
Apr. 27 Wisconsin .....Apr. 22

Bids close — See Eng. News-Record

Apr. 27 Wayne, Mich. .....Apr. 22
Apr. 27 Ottawa, Ont. .....Apr. 22
Apr. 27 Vinton, Ia. .....Apr. 22
Apr. 27 Gardner, Mass. .....Apr. 22
Adv. Apr. 22.
Apr. 27 Wellsburg, Miss. .....Apr. 22
Apr. 27 Hattiesburg, Miss. .....Apr. 22
Apr. 27 Hopewell, N. J. .....Apr. 22
Apr. 27 Shelby, Miss. .....Apr. 15
Apr. 27 Newton, N. J. .....Apr. 8
Apr. 27 Hondo, Tex. .....Apr. 8
Apr. 27 Galveston, Tex. .....Apr. 15
Apr. 27 Louisiana .....Apr. 8
Apr. 27 South Dakota .....Apr. 15
Apr. 27 Hondo, Tex. .....Apr. 15
Apr. 27 North Dakota .....Apr. 15
Apr. 27 Maryland .....Apr. 15
Adv. Apr. 15 and 22.
Apr. 27 Washington .....Apr. 15
Apr. 27 Duluth, Minn. .....Apr. 15
Apr. 27 St. Paul, Minn. .....Apr. 22
Apr. 27 Phila., Pa. .....Apr. 22
Apr. 27 Massachusetts .....Apr. 22
Apr. 27 New York, N. Y. .....Apr. 22
Apr. 27 Louisiana .....Apr. 22
Apr. 27 Cedar Rapids, Ia. .....Apr. 22
Apr. 27 Garner, Ia. .....Apr. 22
Apr. 28 Red Oak, Ia. .....Apr. 22
Apr. 28 Evansville, Ind. .....Apr. 22
Apr. 28 Chicago, Ill. .....Apr. 22
Apr. 28 Brooklyn, N. Y. .....Apr. 22
Apr. 28 North Dakota .....Apr. 15
Apr. 28 Delaware .....Apr. 15
Apr. 28 Florida .....Apr. 8
Apr. 28 Baltimore, Md. .....Apr. 22
Apr. 28 Red Oak, Ia. .....Apr. 22
Apr. 28 Peoria, Ill. .....Apr. 22
Apr. 28 Wisconsin .....Apr. 22
Apr. 28 Cleveland, O. .....Apr. 22
Apr. 28 Uvalde, Tex. .....Apr. 8
Apr. 28 Dickinson, N. D. .....Apr. 8
Apr. 28 Mobile, Ala. .....Apr. 1
Apr. 28 Shelby, Miss. .....Apr. 15
Apr. 29 Lyons, Kan. .....Apr. 15
Apr. 29 North Dakota .....Apr. 15
Apr. 29 Texas .....Apr. 15
Apr. 29 Lyons, Kan. .....Apr. 22
Apr. 29 Toledo, Ia. .....Apr. 22
Apr. 29 Nebraska .....Apr. 22
Apr. 29 New York, N. Y. .....Apr. 22
Apr. 29 Arkansas .....Apr. 22
Apr. 29 South Boston (sta. Boston), Mass. .....Apr. 22
Apr. 29 Texas .....Apr. 22
Apr. 30 Roxbury (Boston P. O.), Mass. .....Apr. 22
Apr. 30 Wauwatosa, Wis. .....Apr. 22
Apr. 30 Seattle, Wash. .....Apr. 22
Apr. 30 Nebraska .....Apr. 22
Apr. 30 Ontario .....Apr. 22
Apr. 30 Manhattan, Kan. .....Apr. 15
Apr. 30 Missouri .....Apr. 15
Apr. 30 North Dakota .....Apr. 15

See proposal advertising on page 117, Advertising Section

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Caulking Means EXPENSE---
No Caulking Means PROFIT

Making LEADITE Joints on 24 inch c. i. B & S Force Main

It is needless waste of time, money and labor to caulk cast iron bell and spigot water mains.

Why not turn this expenditure into a profit?

Use Leadite which is melted and poured into the joint.

Leadite forms a water-tight bond by filling every crevice of the joint from the yarn out to face of bell of pipe, without caulking.

Leadite means simplicity, efficiency and economy.

Water works all over the world use Leadite because it makes a good joint which improves with age.

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Leadite facilitates rapid progress of the work generally.

Leadite does not corrode or rust.

Leadite has been successfully tested and used for over 30 years.

Thousands of miles of pipe jointed with Leadite are in service.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids close — *See Eng. News-Record*

Apr. 30 West Virginia .....Apr. 1
May 1 Birmingham, Ala.....Mar. 25
May 1 Florence, Ala. .....Apr. 1
May 1 Marion, O. .....Apr. 15
May 1 Hayes Center, Neb. .....Apr. 22
May 3 Marshall, Minn. .....Apr. 22
May 3 St. Paul, Minn. .....Apr. 22
May 3 Fowler, Ind. .....Apr. 22
May 3 Pryor, Okla. .....Apr. 15
Adv. Apr. 15 and 22.
May 3 New Jersey .....Apr. 15
Adv. Apr. 15 and 22.
May 3 California .....Apr. 22
May 3 Martinez, Calif. .....Apr. 22
May 3 Marysville, Calif. .....Apr. 22
May 4 Colusa, Calif. .....Apr. 22
May 4 Rocky River, O. .....Apr. 22
May 4 Virginia .....Apr. 22
May 4 Long Beach, Miss. .....Apr. 22
May 4 Phila., Miss. .....Apr. 22
May 4 North Dakota .....Apr. 15
May 4 North Carolina .....Apr. 22
Adv. Apr. 22.
May 4 Washington .....Apr. 22
May 4 Port Angeles, Wash. .....Apr. 22
May 4 Massachusetts .....Apr. 22
May 4 Vincennes, Ind. .....Apr. 22
May 4 Maryland .....Apr. 22
Adv. Apr. 15 and 22.
May 5 Bellingham, Wash. .....Apr. 22
May 5 Florida .....Apr. 22
May 5 Freehold, N. J. .....Apr. 22
Adv. Apr. 22.
May 5 North Dakota .....Apr. 15
May 5 Belvidere, N. J. .....Apr. 15
May 5 Eastman, Ga. .....Apr. 22
May 5 Columbus, O. .....Apr. 22
May 6 Creston, Ia. .....Apr. 22
May 6 New Brunswick, N. J. .....Apr. 15
Adv. Apr. 15 and 22.
May 6 North Dakota .....Apr. 15
May 6 Pennsylvania .....Apr. 15
Adv. Apr. 15 and 22.
May 7 North Dakota .....Apr. 15
May 7 Pennsylvania .....Apr. 15
Adv. Apr. 15 and 22.
May 7 Salem, N. J. .....Apr. 22
Adv. Apr. 22.
May 7 Russell, Kan. .....Apr. 22
May 7 Fulton, N. Y. .....Apr. 22
Adv. Apr. 22.
May 7 Montgomery, Pa. .....Apr. 22
May 7 New York .....Apr. 22
Adv. Apr. 22.
May 10 New Jersey .....Apr. 22
Adv. Apr. 22.
May 10 Akron, O. .....Apr. 22
May 10 Kentucky .....Apr. 22
May 15 Anderson, Ind. .....Apr. 8
May 17 Morgantown, W. Va. .....Apr. 22
Adv. Apr. 22.
May 17 Morgantown, W. Va. .....Apr. 22
May 21 Alma, Kan. .....Apr. 22
June 1 Birmingham, Ala. .....Apr. 22
June 1 Birmingham, Ala. .....Apr. 22

Buildings—Commercial

Bids close — *See Eng. News-Record*

Apr. 26 London, Ont. .....Apr. 22
Apr. 26 Hyannis, Mass. .....Apr. 22
Apr. 27 Phila., Pa. .....Apr. 22
Apr. 27 Gulfport, Miss. .....Apr. 15
Apr. 27 Phila., Pa. .....Apr. 22
Apr. 27 Atlanta, Ga. .....Apr. 22
Apr. 29 Kansas City, Mo. .....Apr. 22
Apr. 29 New Hampshire .....Apr. 22
Apr. 30 Trenton, N. J. .....Apr. 22
Apr. 30 Albany, N. Y. .....Apr. 22
Apr. 30 Kerrville, Tex. .....Apr. 22
Apr. 30 Boston, Mass. .....Apr. 22
Apr. 30 Easton, Pa. .....Apr. 15
Apr. 30 Pittsburgh, Pa. .....Apr. 15
May 1 Birmingham, Ala. .....Apr. 1
May 4 Iowa City, Ia. .....Apr. 1
May 4 Cambridge, Minn. .....Apr. 22
May 5 Marysville, O. .....Apr. 15
May 6 Thiells, N. Y. .....Apr. 8
May 10 New Rochelle, N. Y. .....Apr. 22
Adv. Apr. 22.
May 15 Atlantic City, N. J. .....Apr. 22
May 18 Columbus, O. .....Apr. 15
May 20 Ohio .....Apr. 15
May 25 Iowa City, Ia. .....Apr. 15
July 1 Texarkana, Tex. .....Apr. 22
Sept. 1 Vancouver, B. C. .....Apr. 22

Buildings—Industrial

Apr. 23 Baltimore, Md. .....Apr. 22
Apr. 26 Toronto, Ont. .....Apr. 15
Apr. 26 Two Rivers, Wis. .....Apr. 15
Apr. 27 Meriden, Conn. .....Apr. 22
Apr. 27 Harrisburg, Pa. .....Apr. 22
Apr. 29 Camden, N. J. .....Apr. 22
May 1 Canton, O. .....Apr. 15

Buildings—Educational, Religious

Apr. 23 Wellesley (br. Boston), Mass. .....Apr. 22
Apr. 26 Union, N. J. .....Apr. 15
Apr. 27 New York, N. Y. .....Apr. 8
Apr. 27 South Boston (Boston P. O.), Mass. .....Apr. 22
Apr. 27 Augusta, Me. .....Apr. 22
Apr. 28 Bowling Green, O. .....Apr. 1
Apr. 28 Fayetteville, Ark. .....Apr. 15
Apr. 29 Harrodsburg, Ky. .....Apr. 22
Apr. 30 Bellows Falls, Vt. .....Apr. 22
May 4 Oakland, Calif. .....Apr. 22
May 6 Peoria, Ill. .....Apr. 22
May 6 Corning, N. Y. .....Apr. 22
May 11 South Jacksonville (Ind. br. Jacksonville), Fla. .....Apr. 22

Federal Government Work

Apr. 23 Paving—Phila., Pa. .....Apr. 15
Apr. 23 Gate Buildings—Phila., Pa. .....Apr. 8
Apr. 26 Road—Arizona .....Apr. 15
Apr. 26 Remodeling—Fort Atkinson, Wis. .....Apr. 22
Apr. 26 Generators—St. George, N. Y. .....Apr. 22

Bids close — *See Eng. News-Record*

Apr. 27 Recreation, etc. — Pennsylvania .....Apr. 1
Apr. 28 Catamarans—Norfolk, Va. .....Apr. 1
Apr. 28 Quarters—Wash., D. C. .....Apr. 1
Apr. 28 Quarters—Chelsea, Mass. .....Apr. 8
Apr. 29 Excavation, etc.—Easton, Wash. .....Apr. 1
Apr. 29 Additions—Astoria, Ore. .....Apr. 15
Apr. 29 Concrete—Milwaukee, Wis. .....Apr. 22
Apr. 30 Cranes—Wash., D. C. .....Apr. 1
Adv. Apr. 1 to 22.
May 3 Chain—St. George, N. Y. .....Apr. 22
May 4 Power Plant—Wash., D. C. .....Apr. 8
Adv. Apr. 8 to 22.
May 5 Dredging—South Boston (sta. Boston), Mass. .....Mar. 25
May 6 Subdrainage—Douglas, Ga. .....Apr. 22
Adv. Apr. 22.
May 7 Remodeling—San Francisco, Calif. .....Apr. 22
May 10 Remodeling—Hamilton, O. .....Apr. 22
Adv. Apr. 22.
May 11 Gate Chambers, etc.—Wash., D. C. .....Apr. 15
Adv. Apr. 15 and 22.
May 14 Pipe Line—Wash., D. C. .....Apr. 15
Adv. Apr. 15 and 22.
May 18 Recreation—Augusta, Ga. .....Apr. 15
Adv. Apr. 15 and 22.
May 18 Generators—Wash., D. C. .....Apr. 22
Adv. Apr. 22.

Unclassified

Apr. 23 Scale Pit, etc.—New York, N. Y. .....Apr. 15
Apr. 30 Platform Extensions—New York, N. Y. .....Apr. 22
May 3 Culvert—New Rochelle, N. Y. .....Apr. 15
Adv. Apr. 15 and 22.
May 5 Tunnel—San Francisco, Calif. .....Apr. 1
May 13 Camp—Tullahoma, Tenn. .....Apr. 22
May 14 Tunnel—Oakland, Calif. .....Apr. 8
May 18 Signal System—Buffalo, N. Y. .....Apr. 1

Materials

Apr. 23 Lumber, etc.—New York, N. Y. .....Apr. 15
Apr. 23 Wire, etc.—Cleveland, O. .....Apr. 22
Apr. 26 Portland Cement—Brookline (br. Boston), Mass. .....Apr. 22
Apr. 26 Sand, Crushed Stone, etc. — Milwaukee, Wis. .....Apr. 22
Apr. 27 Chlorine—South Milwaukee, Wis. .....Apr. 22
Apr. 27 Wood Blocks—Boston, Mass. .....Apr. 22
Apr. 28 Road Oil—Green Bay, Wis. .....Apr. 22
Apr. 29 Sand, Concrete, Cement — Indianapolis, Ind. .....Apr. 22
Apr. 30 Road Oil—Nashville, Tenn. .....Mar. 25
May 1 Mixed Concrete—Cleveland, O. .....Apr. 22

News of New Work

Waterworks

Proposed Work

Mass., Arlington (br. Boston)—Plans extending mains in various streets. $59,500 appropriated. Bd. Selectmen, Town Hall, engr.

Mass., Lynn—City, Comn. Ways & Drainage, made plans 1 story, brick pumping station. $15,000. M. Knowles, 507 Westinghouse Bldg., Pittsburgh, Pa., archt.

Mass., Medford (br. Boston) — Plans waterworks. $100,000. F. R. Charnock, 56 Swan St., city engr.

N. C., Pinetops — Plans selling $75,000 bonds, new water and sewer works. G. T. Sugg, mayor.

Ga., Decatur — Voted $60,000 bonds, waterworks improvements, and $10,000 bonds, sewers in various streets. Noted Feb. 25.

Ga., Griffin—E. P. Bridges, city mgr., plans deep well, 500 ft. 12 in. c.i. mains in various streets. $50,000.

Ga., Montezuma — Voted $18,000 bonds, waterworks extensions. J. Felton, mayor. Noted Feb. 18.

Fla., Clearwater — Election Apr. 27, $235,000 bonds, extending mains in various streets.

Miss., Ellisville—Election soon to vote on bonds, waterworks, distribution and sewerage systems.

La., New Orleans—G. G. Earl, genl. supt. Sewerage & Water Bd., 522 Carondelet St., plans additions to waterworks, incl. pumping station, and new boilers, etc. $614,000.

O., Youngstown — City, M. C. Kinder, comr. Water, City Hall, soon takes bids new 25 m.g. pump to take water from river, 15,000,000 high pressure pump to pump into mains, and 9 mi. mains in various streets. $80,000-$100,000.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Mich., Melvindale (br. Dearborn)—Village, G. W. Foster, clk., made plans 14,030 ft. 8 in., and 16,500 ft. 6 in. c.i. mains, etc., in various streets. G. Jerome, 1331 Majestic Bldg., Detroit, engr.

Wis., Green Bay—W. L. Kerr, city clk., rejected bids Mar. 26, new 1,000 g.p.m. turbine centrifugal pump with 150 hp. motor for Shawano Ave. pumping station. Will soon readvertise. Noted Mar. 18.

Wis., Menomonie—City, F. W. Rowe, clk., plans 250,000 gal. water reservoir, concrete. To exceed $15,000.

Wis., Neilsville—Plans waterworks. $50,000. J. H. A. Brahtz, 601 Builders Exchange, St. Paul, Minn., engr.

Minn., St. Cloud—J. D. McKenzie, city clk., plans filtration plant. $40,000.

Kan., Effingham—Plans waterworks. $45,000. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, Mo., engrs.

Mo., Bowling Green — Voted $80,000 bonds, deep wells, 2 deep well pumps, 75,000 gal. tank on tower, storage reservoir, several miles 4- to 8-in. c.i. mains, etc. McCarthy & Elder, Marion, Ill. engrs. Noted Apr. 1.

Mo., Chaffee — Defeated $60,000 bonds, drilling artesian well, etc., C. E. Smith & Co., Ry. Exch. Bldg., St. Louis, consult. engr. F. R. Nohl, Chaffee, resident engr. Noted Mar. 11.

Mo., Mt. Pleasant—Election May 11, $21,000 bonds, improving waterworks, etc. W. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, engrs.

Mo., Poplar Bluff—Election soon $150,000 bonds, modern filtration plant and auxiliary equipment, also extendi water distribution system, etc. W. A. Fuller Co., 1917 Ry. Exch. Bldg., St. Louis, engrs.

Tex., Taylor—Making preliminary plans extending waterworks, additional mains, pumping equipment, etc. $35,000. Address City Comn.

Okla., Cache—Making preliminary plans new waterworks. $18,000. Engineer not selected.

Okla., Okmulgee — A. Baker, comr. Finance, rejected bids Apr. 14, new water supply, incl. dam, etc. Will readvertise. L.

See classified index on bids wanted on page 233

Now—
Strong Concrete in *3 Days*

Years of research, thousands of laboratory tests and actual construction experience prove that with proper methods you can get strong concrete in *3 days* with standard *Universal* cement—the same quality of *Universal* as regularly used.

And such concrete not only has the required strength in *3 days* but also is much better and much stronger forever after than concrete as ordinarily placed.

Detailed information on how to obtain this time-saving, strong concrete in *3 days* with standard *Universal* cement will be furnished on request to

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Waterworks (Continued)

F. Hazen, 919 Monadnock Bldg., Chicago, Ill., consult. engr. Noted Apr. 22.

N. M., Roswell—Voted $150,000 bonds, improving waterworks. Burns & McDonnell Eng. Co., 402 Interstate Bldg., Kansas City, Mo., engrs. Noted Mar. 25.

Idaho, Pocatello—Election about June 15, $470,000 bonds, waterworks improvements. Former election defeated. Burns & McDonnell Eng. Co., 400 Interstate Bldg. Kansas City, Mo., engrs. Noted Apr. 1.

B. C., Merritt—City, F. S. Gay, clk., plans extending civic waterworks incl. 200,000 gal. reservoir, and power plant addition. $35,000. Engineers not selected.

Bids Desired

Mass., Boston — Apr. 28, by Dept. Pub. Wks., laying and relaying mains in Elm and Codman Hill Aves., Myrtlybank and Codman Sts., Dorchester; and Cranston and Holywood Rds., West Roxbury. $15,000. J. H. Sullivan, comr.

N. Y., Buffalo—Apr. 26, by Commissioner Pub. Wks., Municipal Bldg., 250,000 gal. steel tank and high pressure tower in Grover Cleveland Park. $25,000.

N. Y., Buffalo—Apr. 29, by Commissioner Pub. Wks., Municipal Bldg., two 1,200 r.p.m. motor driven centrifugal pumps, with switch board, cables, etc. complete for Grover Cleveland High Pressure Water Tower.

N. J., Bayonne — Apr. 27, by Bd. City Comrs., City Hall, three hundred thirty-five ⅝ to 2-in. water meters with couplings, f.o.b. City Hall, Bayonne. W. P. Lee, city clk.

N. J., Haledon (mail Paterson)—May 3 (extended date) by Boro Council, Haledon Fire House, waterworks improvements. A. W. Cuddeback, 158 Ellison St., Paterson, boro engr.; adv. E. N.-R. Apr. 22.

Md., Hagerstown — May 18, by Mayor and Council, pumping station, filtration plant, reservoirs, embankment, pipe lines, paving, etc., Contr. 4. W. P. Lane, pres. Bd. Water Comrs.; adv. E. N.-R. Apr. 22.

Miss., Lula — May 1, by Bd. Water Comrs., N. Yeates, secy., new waterworks, incl. 50,000 gal. steel tank on 100 ft. tower centrifugal pump and 5 hp. motor, 7½ hp. gas or oil engine for drive belt, 10,400 ft. 3- to 6-in. mains, fifteen 2- to 6-in. gate valves, 14 standard fire hydrants, etc. Noted Dec. 10.

O., Bexley (Columbus P. O.)—Apr. 24, by S. W. Roderick, village clk., 10,000 ft. 6 in., 500 ft. 8 in. and 1,000 ft. 12 in. c.i. pipe. $25,000. Jennings-Lawrence Co., Hartman Bldg., Columbus, engrs.

Ill., Kewanee — May 3, by City Clerk, drilling artesian well, J. A. Todd, supt. Water Dept.; adv. E. N.-R. Apr. 22.

Wis., Kohler—Apr. 26, by W. Nesemann, village clk., 15,000 ft. 6 in. c.i. mains in various streets. To exceed $15,000. J. Donohue Eng. Co., 608 North 8th St., Sheboygan, engrs.

Minn., Jordan — May 3, by City, J. C. Busch, clk., 12,400 ft. 4 and 6 in. c.i. mains, etc., in various streets. $23,000. Pillsbury Eng. Co., 2344 Nicollet Ave., Minneapolis, engrs. Noted Apr. 1.

Neb., Grand Island—Apr. 27, by City, H. E. Clifford, clk., setting two 700 hp. Connelly water tube boilers, with breaching, boiler feed pumps, coal handling equipment, etc. for waterworks and power plant improvements. $65,000. Pillsbury Eng. Co., 2344 Nicollet Ave., Minneapolis, Minn., engrs.

Tex., San Antonio — See "Contracts Awarded."

Calif., Oakland — May 14, by Directors East Bay Municipal Utility Dist., 18,000 ft. Claremont Tunnel, 9 in. diam. horseshoe shape, 20,000 cu.yd. concrete lining 1,085 cu.yd. rein.-con., 8,500 lbs. structural steel, 107,000 lbs. reinforcing 27,700 bbls. Portland cement, 8,500 lb. steel 4,075 lbs. c.i. pipe, etc. $1,500,000. A. P. Davis, Ray Bldg., engr.

Oakland, Calif.—May 21, at office East Bay Municipal Utility Dist., 1924 Bway., Ray Bldg., Venturi meter and pipe connections, etc., for Walnut Creek Pumping Plant, Mokelumne River Project. J. H. Kimball, secy.; adv. E. N.-R. Apr. 22.

Bids Received

Mich., Detroit—Bd. Water Comn., 32,835 ft. 6- to 16-in. mains in various streets, Contr. 1926-7, from L. J. Clancy, 3137 Canton Ave., $24,131; 52,037 ft. 6- to 16-in., Contr. 1926-8, from J. W. Toyne, South Bend, Ind., $37,232; and 48,725 ft. 6- to 12-in., Contr. 1926-9, from Robec-Humphreys Co., 408 Securities Bldg., Omaha, Neb., $35,389. Noted Apr. 1.

Mich., Detroit—Dept. Purchases & Supplies, 2,625 ft. 48 in. lockbar of 50 in., and 1,482 ft. 42 in. lockbar of 44 in. steel pipe with blow offs, etc., to Dept. Water Supply, from J. McNeil Co., 29th St., Pittsburgh, Pa., $44,471.

Ill., Staunton—For 48,000 ft. 2- to 12-in. c.i. mains, etc. in various streets, from A. R. Montague, 4437 Morganford Rd., St. Louis, Mo., $55,132. Engrs. est. $55,800. Noted Mar. 25.

Wis., Kenosha—C. M. Osborn, city mgr., Apr. 15, 2½ m.g. rein.-con. storage reservoir, etc., at filtration plant, from O'Dea & Shafer, Genl. Del., Madison, $67,400. Noted Apr. 1.

Wis., Milwaukee—Central Bd. Purchases, J. W. Nicholson, ch. buyer, Apr. 8, from U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., 1,438.375 tons plain straight pipe at $46.90 per ton, 732.795 tons slugged pipe $66.90, and special castings $160 per ton. Noted Apr. 1.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, brick settings for four 460 hp. boilers, from D. Seeger, 1317 Ry. Exch. Bldg., $13,875, engrs. est. $15,000; sheet metal breeching in boiler room, from L. J. Kickham Boiler & Sheet Iron Wks., 2515 North 25th St., $3,490, engrs. est. $6,000, both for Bissells Point Station. Noted Mar. 25.

Calif., Los Angeles—City, Bureau Power & Lights, from Amer. Cast Iron Pipe Co., 417 Rives-Strong Bldg., 153 tons 24 in. Class "B" c.i. pipe at $6.31 per ton, 418 tons Class "C" $6.88, and 168 tons Class "B" $5.746.

Calif., Oakland — East Bay Municipal Utility Dist., constructing rein.-con. aqueduct between Walnut Creek and Lafayette tunnels, 19,300 cu.yd. concrete, 166,000 cu. yd. earth excav., 32,900 bbl. Portland cement, 4,060,000 lb. reinforcing, from Twohy Bros., Ray Bldg.

Contracts Awarded

Conn., Newington—Maple Hill Fire Dist., about 25,400 ft. 6- to 12-in. mains with valves, etc. in various streets, to H. Golden & Sons, Inc., Troy, N. Y., $22,000. Engrs. est. $25,000.

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains under Board Walk, Empire Blvd., Elmore Pl., Coney Island, Dumont, Neptune Aves., etc., to N. DeStefano, 378 Woodstock Ave., St. George, $17,288. Noted Apr. 15.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains, etc. in Bway., Laurel Hill Terrace, 3rd, 7th and 10th Aves., Arden, Henshaw, Park, East 6th, Sts., etc., to Knight & DeMicco, Inc., 448 East Tremont Ave., $82,231. Noted Apr. 15.

N. J., East Paterson—Mayor and Boro Council, Gilbert Ave. School, water supply system, incl. pipe, valves, hydrants, etc., to E. B. Edgar, Schenectady, N. Y., $61,000. This corrects report in Apr. 15 issue.

N. J., Trenton—Mercer Co., 50,000 gal. water tank, steel, at workhouse, Moore's Station, to Chicago Bridge & Iron Co., 37 West Van Buren St., Chicago, Ill., $6,025; laying waterlines, to A. N. Bugbee, 219 East Hanover St., $7,334. Noted Apr. 8.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, switchboards and wiring for Belmont and Roxborough Pumping Stations, Contr. 814, to Herman-Mayer Co., Inc., 103 Walnut St., $46,852. Noted Apr. 15.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, 16 and 24 in. pipe lines in Northeast Sect., Contr. 793, to M. and J. B. McHugh, 892 North Markoe St., $228,271. Noted Apr. 8.

Pa., Phila.—Phila. Suburban Water Co., Fox Bldg., 1 story, 68 x 154 ft., rein.-con. and brick filter and pumping station, etc., to United Gas Impvt. Co., Broad and Arch Sts., Phila. Noted Feb. 18.

N. C., Monroe—Extending waterworks, incl. Ambursen dam, to W. O. Pratt, Mount Holly, $250,000.

Miss., Laurel — Constructing deep well, etc., to Layne Central Co., Chelsea St., Memphis, Tenn., $16,985. Noted Feb. 4.

O., Berea — H. D. Banks, clk. Bd. Trustees Pub. Affairs, 46,110 ft. 4 and 8 in. c.i. mains in various streets, to Kester & Rettered, Akron, $37,088. Noted Mar. 18.

Mich., Detroit — Dept. Water Supply, brick, concrete and steel interior switch house in Pumping Station 1, Detroit Water Works, to M. Bartholomaei Sons & Co., 1754 East Warren Ave., $16,690.

Mich., Melvindale (Dearborn P. O.)—For 30,530 ft. 6 and 8 in. c.i. mains, etc., in Dists. 1 to 11, to Coolsaet Bros., 12734 Michigan Ave., Detroit, $78,900.

Ill., Decatur — Bd. Local Impvts., E. E. Elder, pres., waterworks improvements, incl. increasing capacity of purification plant from 9 m.g.d. to 18 m.g.d. and converting it into a softening as well as purification plant, to File & Collins, Decatur, $143,690; 6 in. mains in Cantrell St. and Lake Side Club Addition, to J. L. Johnson, Decatur $19,218, and in South Main and adjacent streets, to W. G. Traver, Decatur, $1,518. Grand total $164,426. Noted Feb. 4 and Apr. 15.

Ill., Lombard—Several mi. 6- to 12-in. c.i. mains in Northeast subdivision, to C. J. Ryan, Elmhurst; also sanitary sewerage system, to C. M. Barker, Maywood. Engrs. est. $35,000. Noted Oct. 8.

Wis., Milwaukee — J. W. Nicholson, ch. buyer Central Bd. Purchases, two 20 in., twelve 30 in. and six 36 in. gate valves, to Chapman Valve Mfg. Co., 650 West Lake St., Chicago, Ill., $14,786, and three 42 in., three 48 in. and one 54 in., to Kennedy Valve Mfg. Co., 228 North Jefferson St., Chicago, Ill., $13,378. Noted Apr. 8.

Wis., Wauwatosa—See "Sewers."

Minn., Mankato—F. W. Bates, city clk., 1 m.g. rein.-con. reservoir, to Peterson & Quimby, Mason City, Ia., $20,687. Noted Mar. 18.

Minn., Waite Park—L. A. Cleall, village recdr., cistern and wells, pump house and machinery, tower, tank and distribution mains, to T. Jensen, Tracy, $46,825. Noted Mar. 11.

Kan., Lawrence — Waterworks improvements, incl. 1 m.g. rein.-con. reservoir, 100 x 125 ft., and 20- to 15-in. mains, etc., to Rowan & Rickard, Lawrence, $36,483. Noted Feb. 4.

Mo., Marshall — City Clerk, 200,000 gal. steel tank on 140 ft. steel tower, to Pittsburgh Des Moines Steel Co., Tuttle and South West 10th Sts., Des Moines, Ia., $16,359; and 750 g.p.m. pump, 200 ft. head, to Terry, Cowan & Smith, 1005 Davidson Bldg., Kansas City, $1,694. Noted Apr. 1.

Ark., Siloam Springs—For 10,000 ft. 4 and 6 in. c.i. mains, etc., in various streets, to Siloam Springs Plumbing Co., Siloam Springs. Noted May 7.

Tex., Crowell—Extending waterworks, to R. Irick, Plainview, $27,697.

Tex., El Paso — For 2,300,000 gal. rein.-con. reservoir, to J. E. Morgan, 316 Texas St., $46,000.

Tex., Harlingen—Concrete housing and base for 500,000 gal. water filtration plant, to W. T. Liston & Son, Harlingen, $20,000.

Tex., Hereford—Waterworks and sewer extensions in various streets, to Jordan Constr. Co., Plainview, $15,000.

Tex., La Porte—City, c/o F. W. Raynolds, mayor, 8 in. well, pumping equipment, distribution system, etc., to Southern Pump & Engine Co., 615 Washington Ave., Houston, $30,000.

Tex., San Antonio—City will lay 16 in. mains on south side radiating from Mission Pumping Plant, by day labor. $45,000. I. Ewig, city engr. Noted Dec. 24.

Sewers

Proposed Work

Mass., Arlington (br. Boston)—Plans extending sewers in various streets. $69,000 appropriated. Bd. Selectmen, Town Hall, engr.

Mass., Waltham (Ind. br. Boston)—Plans sewers in various streets. $55,000 appropriated. Private plans.

N. C., Pinetops—See "Waterworks."

Ga., Decatur—See "Waterworks."

Fla., Clearwater—Election Apr. 27, $200,000 bonds, sewage plant and collecting system.

Miss., Ellisville—See "Waterworks."

Ky., Ft. Thomas—Made plans 26,400 ft. 8- to 12-in. vitr. clay sewer in Sect. 3, and same amount in Sect. 4 of Ft. Thomas Sewerage System. $40,000 each. R. Payne, Ft. Thomas, engr.

O., Akron—W. F. Peters, dir. Pub. Serv. soon takes bids 4, 220 ft. 8- to 30-in. vitr. clay sewer in Mercer Ave. et al., $21,500; and 735 ft. 8- to 24-in. in Bellevue Ave., $4,800. J. E. Root, Municipal Bldg., engr.

Ill., Kankakee—Making preliminary plans 15½ x 16 ft. brick and rein.-con. sewer (horseshoe shaped) in Soldier Creek. $430,000. R. D. Gregg, City Hall, engr.

Ill., Savanna—See "Streets and Roads."

Mich., Royal Oak (Ind. br. Detroit)—Made plans 9,606 ft. 8 in. and 7,320 ft. 8 and 12 in. vitr. sewers in Lateral Sewers 59, 60 and 63. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Minn., Duluth—See "Streets and Roads."

Minn., St. Paul—Making plans sewers in Dayton Ave. Sewerage System 2, $65,000; and Ford Plant Dist., $30,000. G. M. Shepard, city engr.

Mo., Clayton—Lemay Ferry Dist., J. L. Harnage, atty.-secy., plans 6- to 30-in. sanitary sewer along Lemay Ferry Rd. south of St. Louis city limits to Prospect Hill. $450,000. W. Dozier, Clayton, engr.

Mo., Moberly—Voted $75,000 bonds, sewage disposal plant. Noted Feb. 18.

Mo., St. Louis—See "Unclassified."

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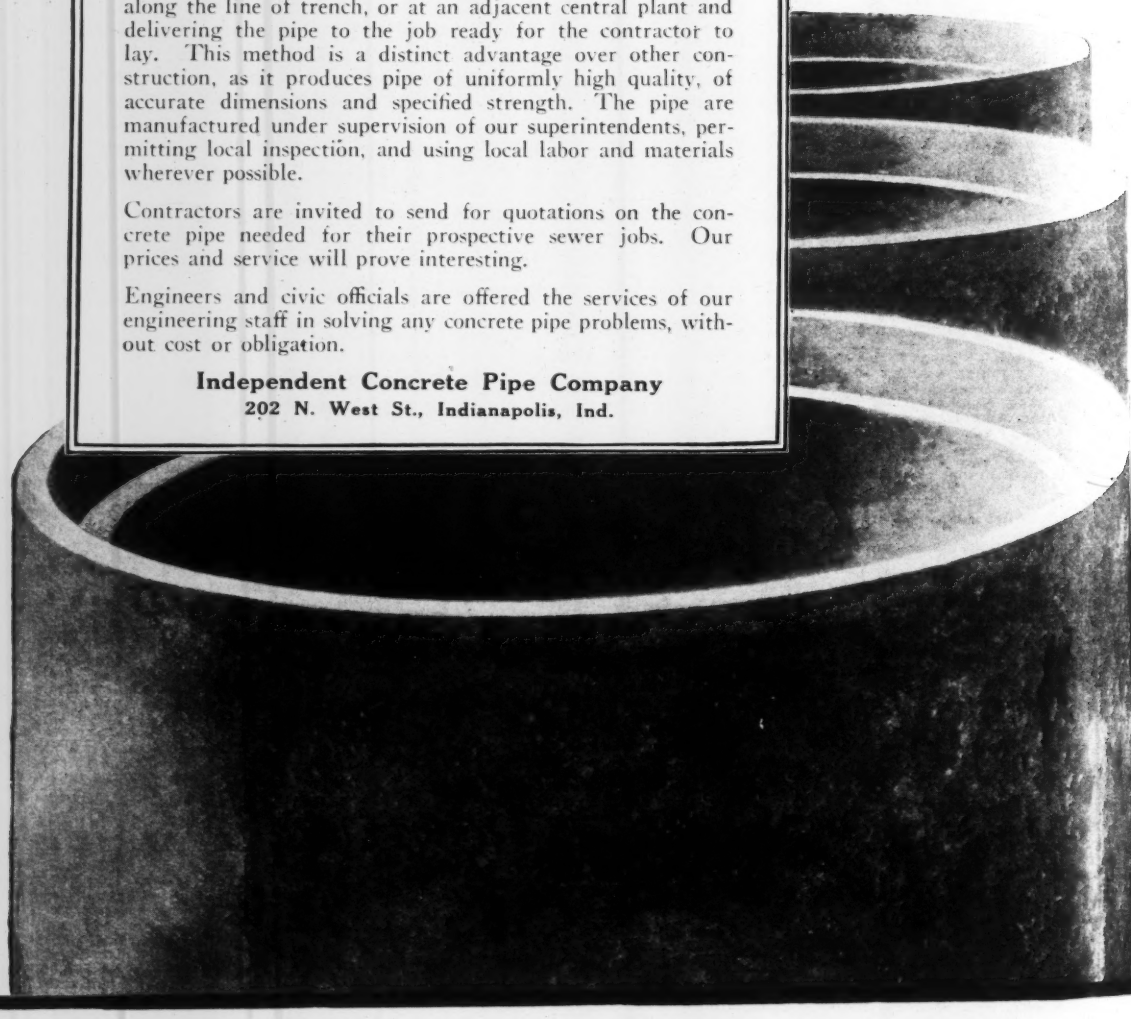


Sewers (Continued)

Okla., Coweta—Made preliminary plans 6 mi. sewers in all streets. $40,000. Engineer not selected.

Okla., Granite — Made preliminary plans sewerage system. Election soon to exceed $25,000 bonds for same. Engineer not selected.

Okla., Olustee — Making plans sewerage system. $35,000. Address J. P. Randall, mayor.

Calif., Hayward — Making plans 24 in. outfall sewer from here to bay. To exceed $50,000. J. B. Holly, 2910 Telegraph Ave., Oakland, engr. Noted Dec. 17.

Calif., Oakland—Made plans 5,421 lin.ft. 12- to 18-in. vitr. sewer, and 25 lin.ft. 15 in. vitr. sewer with concrete jacket, etc., in west end Chabot Rd. W. W. Harmon, city engr.

Bids Desired

Mass., Boston—Apr. 28, by Dept. Pub. Wks., sewerage works in Colorado and Orlando Sts., Dorchester; Apr. 29, in Vose St., Hyde Park; Apr. 29, in Parkman St., Boston Proper. To exceed $25,000. J. H. Sullivan, comr.

N. Y., Brooklyn—Apr. 28, by J. A. Guider, pres. Brooklyn Boro, Boro Hall, storm and sanitary sewers in East 18th St.; sewers in Ocean and Fort Hamilton Parkways, Van Sicklen, 62nd, West 10th, East 26th, 53rd and East 45th Sts., Avenues N and K, Albany, and Schenectady Aves.

N. Y., New York—Apr. 27, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers, etc., in Laconia, Waring, Morris Park, Underhill and Noble Aves., East 177th St. between Bronx River and Rosedale Aves. and East 177th St. between Fetley and Rosedale Aves.

N. J., North Plainfield (mail Plainfield) May 7, by Mayor and Boro Council, Boro Hall, sewers and ejector station, in Wilson, Clinton, Parkview Aves., etc. F. J. Hubbard, 203 Park Ave., Plainfield, engr.; adv. E. N.-R. Apr. 22.

Md., Baltimore—May 5, by Bd. Awards, at office City Register, City Hall, constructing Presstman St. Diversion Drain, Storm Water Contr. 97. B. L. Crozier, ch. engr.; adv. E. N.-R. Apr. 22.

D. C., Wash.—Apr. 27, by District Comrs., District Bldg., 17 service truck and storm water sewers in Sect. 4 South Branch Wesley Heights, Military Rd., Randolph and Owen Pls., Irving, 39th, Van Buren, 14th, Hemlock, East Brightwood and T Sts., Colorado and Minnesota Aves.

Fla., Miami Beach — May 5, by City Council, sewers in S.R.-85, 91 and 92, Contr. 24-S.R.; SR-93 and 94, Contr. 25-SR; SR-89 and 90, Contr. 23-SR; also SR-95 and 96, Contr. 26-SR. G. W. Tomlinson, city clk.; adv. E. N.-R. Apr. 22. Noted Jan. 7.

Miss., Philadelphia — See "Streets and Roads."

O., Bexley (Columbus P. O.)—Apr. 24, by S. W. Roderick, village clk., 9,000 ft. 8- to 12-in. vitr. sewers in Stanwood Rd., Broad St., Dawson and Maryland Aves. $25,000. Jennings-Lawrence Co., Hartman Bldg., Columbus, engrs.

O., Dayton — Apr. 29, by Comrs. Montgomery Co., 8,641 ft. 12- to 24-in. vitr. sewers, etc. in Overlook Heights and Ft. McKinley Sewer Dist. $45,000. P. E. Borchers, U. B. Bldg., Dayton, co. engr.

Ill., Chicago—Apr. 26, at office Bd. Local Impvts., Room 207, City Hall, tile sewers, etc., in Phillips, Yates, Clyde, Chappel, Mercer, Payton, Luella, Crandon, Komensky, South Karlow, South Kedvale and Keeler Aves., East 86th, East 87th, East 88th and West 68th Sts. J. J. Sloan, pres.

Wis., Kohler—Apr. 26, by W. Nesemann, village clk., 10,000 ft. vitr. clay sewers in various streets. To exceed $25,000. J. Donohue Eng. Co., 608 North 8th St., Sheboygan, engrs. Noted Aug. 20.

Wis., Wauwatosa—Apr. 30, by Bd. Pub. Wks., A. Brigham, secy., 4,975 ft. 15- to 48-in. concrete sewers in 6 streets. To exceed $25,000. J. E. Lowther, City Hall, engr.

Ia., Oelwein—Apr. 30, by City, trickling filter and other additions to sewage treatment plant. Former bids rejected. C. D. Shippy, city clk. Noted Mar. 4.

Minn., Jordan — May 3, by City, J. C. Busch, clk., sewage disposal plant, 9,000 ft. 8 in. and 2,550 ft. 10 in. sewer, etc., in various streets. $25,000. Pillsbury Eng. Co., 2344 Nicollet Ave., Minneapolis, engrs.

Minn., Wanamingo—May 3, by H. Loken, village clk., 6,500 ft. 8 and 10 in. sewers in Sewer Dist. 1. $25,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, Ia., engrs.

Tex., Galveston — C. A. Holt, Jr., engr., Galveston, taking bids and open same about Apr. 28, rein.-con. storm drain in 24th St. from Ave. J. to Ship Channel, for City. $70,000.

Okla., Oklahoma City — May 13, by M. Peshek, Jr., city clk., sanitary main sewer extension, and disposal plant; adv. E. N.-R. Apr. 22.

Calif., Arroyo Grande — May 5, by City Trustees, 20,000 ft. 6- and 8-in. vitr. sewers and 5,000 ft. 4 in. vitr. house connections, etc. in various streets. Burch & Beck, Commercial Bank Bldg., San Luis Obispo, engrs. Noted Apr. 8.

Calif., Mill Valley — May 4, by Town Trustees, sewers in Blithdale, Lovell, Throckmorton Aves., etc., 8,571 ft. 4- to 18-in. vitr. pipe, 2,069 ft. 12- to 24-in. vitr. pipe on cribbing, etc. J. C. Oglesby, Cheda Blk., San Rafael, engr. Mar. 15.

Calif., Victorville — Victorville Sanitary Dist. taking bids 14,734 ft. 8- to 14-in. lateral sewers in various streets. W. A. Foster, Victorville, engr. Noted Feb. 25.

Bids Received

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, from J. F. Cogan, Grand Central Terminal, relief sewer in 5th Ave., $615,245; from A. W. Matarazzo, Inc., 1163 61st St., sewers in East 9th St. $9,143, East 38th St. $4,238, West 4th St. $3,266, and 11th Ave. $1,700, from Mazzarro & Guerriero, 6712 11th Ave., East 8th St. $5,784, from Peconi Contg. Co., 578 18th St., 64th St. $2,141, and from R. Iovino, 678 Glenmore Ave., 20th St. $1,312. Noted Apr. 8.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, sewers in New Dorp, Oakwood and vicinity at Pumping station near Oakwood Beach, from Merritt, Chapman & Scott Corp., 17 Battery Pl., New York City, $50,521. Noted Apr. 15.

N. J., Greenville (sta. Jersey City)—Bd. Comrs. Greenville Sewer Dist., Apr. 13, sewerage system, from J. Miele, East Orange, $160,000.

N. J., Oakhurst — Interlaken Boro Sewerage Dists. 1, 2, 3 and 4, Ocean Twp., Monmouth Co., Apr. 14, settling tank and sea outlet into Atlantic Ocean at Lock Arbour, here, from T. Proctor, 212 North 5th Ave., Long Branch, $36,952. Noted Apr. 8.

Md., Baltimore — Bd. Awards, Apr. 14, sludge drying beds 11 to 14 (inclusive) at Back River Sewage Treatment Works, from Adams & Marino, Old Town Natl. Bank Bldg., $129,258. Noted Apr. 8.

O., Cleveland—Bd. Comrs. Cuyahoga Co., Apr. 7, 3,800 ft. 8- to 48-in. sewer in Lander Rd., from Southern Constr. Co., 1726 Northfield Ave., Lakewood, segment $36,580, brick $37,685 and concrete $33,181. Noted Apr. 1.

O., Cleveland—For 553 ft. 7 ft. 6 in., 656 ft. 6 ft., 596 ft. 5 ft. 6 in., 288 ft. 5 ft. 3 in. and 270 ft. 5 ft. E brick sewer, 300 ft. 5 ft. 9 in., 325 ft. 4 ft. 6 in., 380 ft. 4 ft. 3 in. C brick sewer, and 380 ft. 24 in. vitr. tile sewer in West 130th St. from Puritas Ave. to Brookpark Rd., from W. B. Smith, 1350 West 89th St., Plan A. A., tunnel brick $135,487, and from Donnelly-Miller Constr. Co., 1251 East 84th St., Plan A open cut, $140,673.

Mich., Pontiac—H. A. Maurer, city clk., City Hall, Northwest Trunk Sanitary Sewer, 1,063 ft. 36 in. concrete and brick pipe, from A. Rossi, 5307 Pennsylvania Ave., Detroit, $42,311. Noted Mar. 4.

Wis., Beloit—G. E. Heebink, City Hall, engr., Apr. 14, 17,120 ft. 8- to 21-in. vitr. or concrete sewers, etc., in various streets, from Cooper & Hansen, Iowa Falls, Ia., $43,245. Noted Apr. 8.

Calif., North Sacramento — For 62,700 lin.ft. 6- to 15-in. vitr. sewers, etc., in various streets; also sewage pumping plant, from United Concrete Pipe Co., Merced, $89,995. Noted Apr. 8.

Contracts Awarded

N. Y., Greenburgh — Bd. Sewer Comrs. Greenville Sewer Dist., 155 Old Army Rd., sewerage system in Greenville Sewer Dist., to J. Miele, 21 Hillcrest Terrace, East Orange, $156,314; pumping machinery, to W. N. Best Corp., $9,400. Noted Apr. 1.

Miss., Booneville — See "Streets and Roads."

Ind., Indianapolis—Sewers in Raymond St. and La Grande Ave. extending from State St. to Keystone Ave., to Columbia Constr. Co., 2108 Columbia Ave., $89,233.

Mich., Plymouth—For 24,300 ft. 8- to 12-in. vitr. sewers, etc., in various streets, to Bluhm & Dickinson Co., Plymouth, $65,690. Noted Apr. 1.

Ill., Grays Lake—City Clerk, sewers in various streets, to McGucken-Vander Heyden Co., 314 Fowler St., Milwaukee, Wis., $101,374. Noted Feb. 25 under "Waterworks."

Wis., Kenosha—C. M. Osborn, city mgr., 3.4 mi. 8- to 42-in. sewers in various streets, to M. Thomsen, 1020 Salem Ave., $52,160. Noted Apr. 15.

Wis., Wauwatosa — Bd. Pub. Wks., A. Brigham, secy., sewer and water connections in North Ave., to T. G. Holton, 345 27th Ave., Milwaukee, $37,357. Noted Apr. 15.

Minn., St. Paul—A. E. Eggert, city purch. agt., Maryland-Como Sewerage System, Contr. B, and St. Paul Ave. Sewer 2, Div. B, to Thornton Bros., 318 Endicott Bldg., $34,778 and $93,887 respectively. Noted Mar. 25.

Tex., Hereford—See "Waterworks."

Tex., St. Jo—For 6,000 ft. 8 in. and 25,000 ft. 6 in. mains in various streets, and disposal plant, to Duglas & Davenport, 2nd Ward Bldg., Wichita Falls, $42,000.

Tex., Wylie — Sewerage system, to P. O'Neil, 3909 Normandy St., Dallas, $30,000. Noted Nov. 26.

Colo., Denver—Dept. Impvts. & Parks, 17 mi. 8- to 24-in. vitr. sewers Barnum Special Sanitary Dist. 1, to Constr. Serv., Inc., Tramway Bldg., $159,231, also 15 mi. Dist. 2, to Dobson & Humphreys, Lincoln, Neb., $124,848. Noted Mar. 24.

Calif., Los Angeles — Los Angeles Co. Sanitation Dist. 1, rein.-con. sewer in Wright Rd., to Kelly & Sons, Hillstreet Bldg., $197,851.

Calif., Los Angeles—Sewers, etc., in Sawtelle Blvd., to N. Chutuk & M. Vukojevich, 1506 Pleasant St., $59,286; also in Hyde Park Blvd., to M. Miller, 208 West 2nd St., $58,407. Noted Apr. 8.

Calif., San Fernando—For 56,152 lin.ft. 8- to 18-in. cement sewer, etc., in Sewer Dist 1, to R. A. Wattson, 1026 North McCadden Pl., Los Angeles, $77,340. Noted Mar. 25.

Waste Disposal

Proposed Work

Fla., Clearwater—Election Apr. 27, $22,000 bonds, incinerator.

Ill., Peoria — Defeated $100,000 bonds, garbage incinerator, etc. W. E. Backes, City Hall, engr. Noted Feb. 4.

Bridges

Proposed Work

Vt., Brattleboro—State Hy. Dept., Montpelier, plans 325 ft. span concrete and steel bridge and approaches, here, to exceed $25,000. J. R. Worcester & Co., 79 Milk St., Boston, Mass., engr.

N. J., Trenton — State Hy. Comn. plans rein.-con. and steel double leaf bascule bridge, here. $400,000. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs.

North Carolina — State Hy. Dept., Raleigh, plans rein.-con. bridges, etc., on Project 669, Cowan Co., $53,500; on Project 637, Iredell Co., $67,500; Project 624, Catawba Co., $27,000; Project 398, Robeson Co., $43,000; and Project 303, Bladen Co., $29,600. C. M. Upham, Raleigh, engr.

Fla., Clearwater—Election Apr. 27, $36,000 bonds, bridges.

Miss., Pascagoula—Jackson Co. Dist. 4, voted $10,000 bonds, its portion of cost for bridge across Biloxi Bay connecting Ocean Springs and Biloxi.

Tennessee—See "Railways."

Tenn., Pelham—State Dept. Highways & Pub. Wks., Nashville, making surveys bridge over Elk River, Grundy Co., near here. C. N. Bass, highway comr.

Tenn., Trenton—Gibson Co. election June 5, $125,000 bonds, new and reconstructing existing bridges. Engineer not selected.

Ohio — Comrs. Mahoning Co. (Youngstown) take bids early in May, 120 ft. steel and concrete bridge over Mahoning River, between Alliance and Westville. $50,000.

Ind., Evansville — Vanderburgh Co. making estimates concrete and steel bridge over Pigeon Creek, on Franklin Rd. To exceed $25,000. Noted Sept. 24.

Ill., Chicago—Voted $2,500,000 bonds for bridges, of which $600,000 to be used this year.

Wis., Milwaukee—Voted $1,800,000 bonds, approximately 4,000 ft. steel and concrete viaduct, on 16th St. M. C. Cutler, City Hall, engr. Noted Dec. 17.

Wis., Milwaukee—Voted $200,000 bonds, steel and concrete bridge, at Lincoln Ave. M. C. Cutler, City Hall, engr.

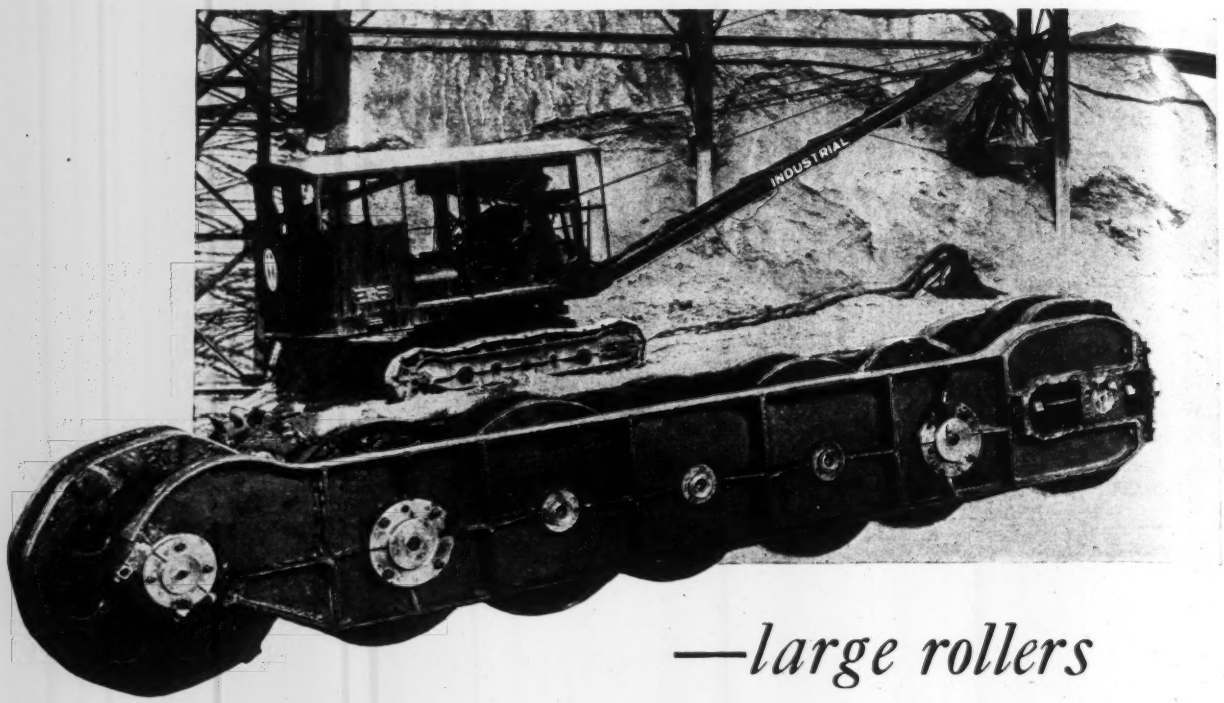
Ark., Des Arc—Des Arc Bridge Co., c/o H. Bovay, Stuttgart, making preliminary plans rein.-con. and steel bridge across White River, here. $100,000.

Tex., Albany—See "Streets and Roads."

Tex., Angleton—See "Streets and Roads."

Tex., Cuero—See "Streets and Roads."

Tex., Decatur—See "Streets and Roads."



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Bridges (Continued)

Tex., Henderson — See "Streets and Roads."

Tex., Karnes City — See "Streets and Roads."

Tex., Quanah—See "Streets and Roads."

Tex., Taylor—See "Streets and Roads."

Bids Desired

Mass., Bridgewater — Apr. 27, by Dept. Pub. Wks., Boston, 600 ft. concrete bridge and bituminous macadam approaches, here. $27,000. W. F. Williams, comr.

Fla., Miami Beach — May 5, by City Council, rein.-con. arch bridge at Alton Rd., Contr. 1B; rein.-con. arch bridge at 23rd St. Contr. 2B; also steel bridge on concrete pedestals with timber deck and approaches, on Liberty Ave., Contr. 3B, all over Collins Canal. H. Stanley, 512 Northeast 15th St., Miami, engr.

Miss., Hattiesburg — See "Streets and Roads."

La., Bourg—May 11, by State Hy. Comn., Baton Rouge, Intracoastal Canal Bridge, rein.-con. and steel, on Houma-Montegat Highway, State Project 532-A, Terrebonne Parish. W. B. Roberts, Reymond Bldg., highway engr.

La., Shreveport—City and Kansas City & Southern R.R. Co., A. N. Reece, Kansas City, ch. engr., 11th and Wyandotte Sts., Kansas City, Mo., taking bids rein.-con. and steel viaduct, on Texas Ave. $300,000.

Ky., Paducah—May 15, by Bd. Pub. Wks., City Hall, rein.-con. bridge over Island Creek, on 6th St. E. R. Bradshaw, Jr., city engr. W. Watson and associates, 4614 Prospect Ave., Cleveland, O., consult. engrs.; adv. E. N.-R. Apr. 22.

Ia., Anamosa — May 5, at office Auditor Jones Co., 175 x 20 ft. high truss bridge, concrete floors and piers with six 32 x 20 ft. I-beam approach spans. F. S. Yetter, Anamosa, co. engr.

Ia., Toledo — Apr. 29, at office Auditor Tama Co., one 70 x 20 ft. pony truss span and one 40 x 20 ft. I-beam bridges, also 25 culverts and extensions. L. W. Croft, Toledo, co. engr.

Ia., Vinton — Apr. 27, at office Auditor Benton Co., one 80 x 20 ft. pony truss bridge and 34 culverts on Federal Aid Project 251; 8 box culverts on Federal Aid Project 263; 10 culverts and extensions on Federal Aid Project 285; 28 culverts and extensions on Federal Aid Project 276; 3 box culverts on Primary Bridge Project 318. M. A. Hall, Vinton, co. engr.

Minn., Marshall — See "Streets and Roads."

Nebraska—See "Streets and Roads."

South Dakota—See "Streets and Roads."

Texas—See "Streets and Roads."

California—May 3, by State Hy. Comn. Sacramento, one 60 ft. and six 30 ft. span also three 54 ft. and four 26 ft. span rein.-con. bridges, 24 ft., and 132 ft. 6 x 6 ft. rein.-con. box culverts, etc. between San Ardo and Bradley, Monterey Co.; also timber bridge with 67 ft. skewed truss span on pile bents across Brawley Main Canal, approximately 2½ mi. south of Brawley, one with eleven 19 ft. spans across Alamo River at Holtville, and another across Low-line Canal, point 2 mi. east of Holtville, Imperial Co. R. M. Morton, highway engr.

Calif., Los Angeles—May 3, by Bd. Pub. Wks., 1,580 ft. rein.-con. bridge and approaches, 7th St. M. Butler, 242 South Bway., engr. Noted Mar. 18.

Ontario—See "Streets and Roads."

Bids Received

Ia., Maquoketa—Jackson Co., Mar. 31, 130 x 20 ft. high truss and 70 x 20 ft. pony truss bridges, from A. Olsen, Waterloo, $33,440. Noted Mar. 25.

Contracts Awarded

New Jersey—State Hy. Comn., Trenton, 12 ft. and 30 ft. bridges over branches of Raritan River, on State Highway Route 9, Hunterdon Co., to F. W. Schweirs, 90 West St., New York City, $21,473. Noted Mar. 18.

N. C., Lexington — Reeves Island Toll Bridge Co., rein.-con. toll bridge across Yadkin River to R. G. Foster & Co., North Wilkesboro.

Georgia—See "Streets and Roads."

Georgia — State Hy. Dept., East Point, bridge over Otter Creek on Fitzgerald-Abbeville Rd., Federal Aid Project 419-A, Ben Hill Co., also 3 bridges and 4 culverts on Dublin-Irwinton Rd., Federal Aid Project 35, Laurens Co., to Bembrey & Duggan, Hawkinsville, $8,484 and $34,301 respectively; 3 bridges and 1 culvert on La Grange-Chipley Rd., Federal Aid Project 324-B, Troup Co., to Nichols Contg. Co., 21 South Candler St., Atlanta, $38,443. Grand total $81,228. Noted Mar. 18.

Louisiana — State Hy. Comn., Baton Rouge, Sabine River Bridge, incl. 75 ft. pony truss span and 300 ft. steel swing span, etc., Federal Aid Project 336-B, at Orange, Tex., to Womack Constr. Co., Sherman, Tex., and Brown-Abbott Co., Inc., Wilson Bldg., Dallas, Tex., $246,642. Noted Apr. 8.

La., Hammond—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Ind., Indianapolis — Comrs. Marion Co., Court House, 3 span 152 ft. bridge, 70 ft. on North Meridian and Canal Sts., to Natl. Concrete Co., 825 Lemcke Bldg., $57,343. Noted Mar. 25.

Ill., Chicago—City installing, etc., electrical equipment for double leaf trunnion bascule bridge over Chicago River, at West Adams St., to Norwood-Noonan & Co., 450 West Superior St., $43,586.

Iowa—State Hy. Dept., Ames, (**F. A. P. means Federal Aid Project and P. R. P. means Primary Road Project**), one 28 x 24 ft. I-beam and one 50 x 20 ft. pony truss bridges, 39 box and circular culverts on F. A. P. 238, Montgomery Co., and one 60 x 20 ft. and one 80 x 20 ft. pony truss bridges, 29 box culverts and extensions on F. A. P. 64, Jasper Co., to B. J. Cole, Ames, $42,258 and $34,274 respectively, 2 box culverts on F. A. P. 65, Warren Co., to Iowa Bridge Co., 19th St. and Easton Blvd., Des Moines, $1,924; 16 box culverts on F. A. P. 280, Pottawattamie Co., to Wickham Bridge Co., 27 South 19th St., Council Bluffs, $11,440; one 32 x 24 ft. I-beam and one 160 x 20 ft. high truss bridges, 3 culverts and extensions on F. A. P. 98, Winneshiek Co., to A. Olson Constr. Co., Waterloo, and F. Carlson Paving Co., Elkader, $21,839 and $5,360 respectively; 4 box culverts at Toledo, State Institute Project 10, to E. Wolfe, Toledo, $1,600. Grand total $118,695. Noted Apr. 1.

Ia., Logan — Harrison Co., bridges on Federal Aid Project 138, to Roords Co., Rock Rapids, $26,000.

Kan., Hoxie—See "Streets and Roads."

Kan., Iola—See "Streets and Roads."

Kan., Ottawa—See "Streets and Roads."

Nebraska—See "Streets and Roads."

Mont., Miles City — Custer Co., F. F. Bohling, clk., 454 ft. steel beam bridge over Powder River, near Terry, to W. P. Roscoe, Billings, $44,339. Noted July 30.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, nine 42 ft. rein.-con. span viaduct, 70 ft. to carry Kingshighway Blvd. over Terminal Belt R.R. line in Penrose Park, to J. J. Bailey, 6176 Pershing Ave., $174,-274. Noted Mar. 11.

Texas and Oklahoma—E. P. Walsh, aud. Wichita Co., Wichita Falls, Tex., and J. M. Page, state highway engr., Capitol Bldg., Oklahoma City, Okla., rein.-con. bridge over Red River, between Burkburnett, Tex., and Randlett, Okla., to Austin Bridge Co., 1815 Clarence St., Dallas, $240,255. Engrs. est. $300,000. Noted Feb. 4.

Tex., Galveston—C. C. Washington, engr., Galveston, one 40 ft. simple span bridge with 20 ft. I-beam creosoted pile approach and about 900 ft. lin.ft. creosoted pile trestle across Dickinson Bayou, to Johnson Constr. Co., Galveston, for Galveston Co., c/o J. M. Murch, aud. $36,844. Noted Mar. 18.

Tex., San Antonio — Bexar Co., c/o A. McCloskey, judge, constructing 3 rein.-con. bridges one each on Palo Alto, Babcock and Fredericksburg Rds., and 3 rein.-con. bridges one each on Pyron, Blue Wing and Medina Rds., to L. E. Saunders, c/o Alamo Natl. Bank Bldg., $71,311 and $81,110 respectively; rein.-con. bridge over Salado Creek on Bulverde Rd., to Black & Werner, 807 Drexel Ave., $27,596; and rein.-con. bridge over Chupaderas Creek, on Stuart Rd., to Dielmann Constr. Co., 306 East Commerce St., $25,717. Grand total $205,-734. Noted Apr. 15.

California — State Hy. Comn., Forum Bldg., Sacramento, widening present bridge by moving four 100 ft. existing steel spans off center line of roadway and constructing 4 similar spans at side, etc., across Rio Honda, near Los Angeles, Los Angeles Co., to Gutleben Bros., I. W. Hellman Bldg., Los Angeles, $84,819. Engrs. est. $105,880. Noted Apr. 1.

California — State Hy. Comn., Sacramento, thirty-six 39 ft. span rein.-con. girder bridge over Santa Maria River, north of Santa Maria, San Luis Obispo Co., to Rocca & Caletti, 609 C St., San Rafael, $107,440. Noted Apr. 8.

Dams

Bids Desired

N. Y., Lancaster — See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Contracts Awarded

Idaho, Lewiston—Inland Light & Power Co., Portland, Ore., dam, incl. 7,000 ft. dike, 400,000 cu.yd. excav. and power plant, here, to Winston Bros., 801 Globe Bldg., Minneapolis, Minn., to exceed $2,000,000.

Wash., Chelan Falls—See "Buildings—Industrial."

Railways

Proposed Work

Mississippi — Yazoo & Mississippi Valley R.R. Co., subsidiary of Illinois Central R.R. Co., 135 East 11th Pl., Chicago, Ill., A. F. Blaess, ch. engr., having preliminary plans prepared extensive yard improvements and additional shops, in Vicksburg, here.

Tennessee—Nashville, Chattanooga & St. Louis R.R. Co., Nashville, H. McDonald, ch. engr., plans track improvements, incl. relaying heavier rails, new tie plates, strengthening and rebuilding new bridges, grade changes, etc., over whole system. $1,-500,000.

Quebec — See "Buildings — Industrial" under Quebec, Que.

Bids Desired

Wisconsin—See "Contracts Awarded."

Texas—See "Contracts Awarded."

Contracts Awarded

Wisconsin — Milwaukee Electric Ry. & Light Co., Pub. Serv. Bldg., Milwaukee, will replace 2,074 ft. double street car track road bed, incl. rein.-con. and granite block paving between tracks on East Water St., by day labor. $50,000. E. J. Archambault, c/o owner, ch. engr.

Missouri — St. Louis & San Francisco R.R. Co., F. G. Jonah, Frisco Bldg., St. Louis, ch. engr., permanent construction, incl. concrete piers, abutments, culverts, etc. in Eastern and Southwestern Divs., to Hedges & Weeks, Holland Bldg., Springfield, approximately $25,000; Central Div., to E. G. Fike, Nebraska Bldg., Tulsa, Okla., $6,000; Western Div., to T. H. Johnson, Sedalia, $7,500; Northern Div., to J. W. McMurry Contg. Co., Ry. Exch. Bldg., Kansas City, $65,000; also Southern and River Divs., to United Constr. Co., Lyric Bldg., Cincinnati, O., $23,000. Grand total $126,500. Noted Mar. 25.

Texas — Missouri Kansas & Texas R.R. Co., St. Louis, Mo., F. Ringer, ch. engr., will build 36 mi. standard gauge branch line from Cisco to Albany, here, by day labor. $90,000. Private plans.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Miss., Henderson (mail Bay St. Louis)—C. L. Schmidt & Co., 30 La Salle St., Chicago, Ill., soon takes bids 1,000,000 cu.yd. hydraulic dredge work, will probably take bids on 1,000,000 to 2,000,000 cu.yd. dredge work later, all in connection with 1,400 acre subdivision, here. Complete development $3,000,000. A. M. Shaw, Hibernia Bldg., New Orleans, La., engr. Noted Mar. 4, under "Unclassified."

Minn., Duluth—See "Streets and Roads."

Okla., Tonkawa — Making preliminary plans jetties on Salt Fork River bank for protection. $25,000 or more. Address City Engineer.

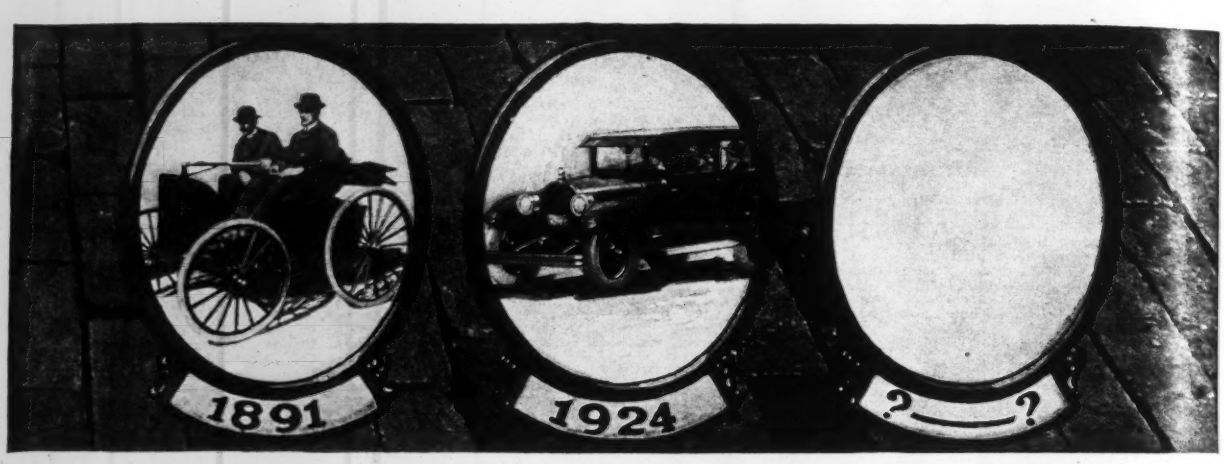
Ont., Toronto—Harbor Comrs. plan concrete sea wall on wood pile foundation, Yonge to Parliament Sts. $460,000, Bay to Yonge Sts. $77,000, and at Humber Bay $20,000. E. L. Cousins, Harbor Bldg., engr.

Bids Desired

N. Y., Buffalo — May 24, by Dept. Pub. Wks., Municipal Bldg., slips and bulkhead in Outer Harbor just off foot of South Michigan Ave.; adv. E. N.-R. Apr. 22.

N. Y., Lancaster—May 3, by T. H. McElvin, Jr., purch. agt. Erie Co. 263 Terrace St., Buffalo, excavating for lake at Como Lake Park; and concrete masonry dam across Cayuga Creek, here. To exceed $50,000.

Ill., Sycamore — May 8, by Comrs. Coon Creek D. D. at office Clerk De Kalb Co., cleaning open ditch, 15,000 cu.yd. excav. W. M. Hay, Leslie Bldg., De Kalb, engr. Noted Oct. 15.



Laid in 1891–
Relaid, other side up, in 1924–
–who can say when this vitrified brick pavement will finally complete its usefulness?

THE background of the illustration at the top of this page is an actual photograph of a typical section of the surface of the principal business thoroughfare of Sunbury, Pa., before applying the filler. The brick on this street, a main traffic route of the city, was originally laid in 1891, 34 years ago. In 1924 it was taken up and relaid. The perfect condition of the relaid surface shows clearly in the photograph. Could Sunbury—or any other community—have made a better paving investment? Can your community —*right now*—do better than to pave with vitrified brick, the pavement with salvage value built in it?

PAVE WITH VITRIFIED Brick

The Pavement that Outlasts the Bonds

NATIONAL PAVING BRICK MANUFACTURERS ASSOCIATION, ENGINEERS BLDG., CLEVELAND, OHIO

Excavation, Drainage, Irrigation, Levees, River and Harbor (Continued)

Wis., Appleton — Apr. 29, by H. W. Wieckert, secy. Outagamie Co. Drainage Bd., 112 West Sumner St., dredging Duck Creek at Five Corners, Dist. 6, Block Creek and Center Twps., 184,000 cu.yd. excav. To exceed $15,000. L. M. Schindler, 401 North Clark St., engr.

Calif., Grass Valley—May 1, by Directors Nevada Irrigation Dist., 4 mi. power line and 10 mi. conduit for Mountain Div. Works, 12,700 lin.ft. metal flume, 102,000 cu.yd. excav. in solid rock, 77,000 cu.yd. common excav., 23,000 cu.yd. excav. in loose rock, 7,500 sq.ft. concrete lining, 2,450 lin. ft. 9 x 9½ ft. tunnel, etc. F. H. Tibbetts, Alaska Comm. Bldg., San Francisco, engr. Noted Mar. 25.

Ontario—Apr. 27, by L. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, dredging in Port Arthur and Ft. William, 1,070,000 cu.yd. clay, hardpan, boulders, and sand. $700,000. K. M. Cameron, Dept. Pub. Wks., Ottawa, engr.

Bids Received

Calif., Woodland—Trustees Reclamation Dist. 68, Yolo Co., Apr. 2, irrigation laterals, 165,000 cu.yd. excav., from C. B. Merrill, Colusa, team work $0.1666 per cu.yd.; from J. Philipps, 637 Santa Ray Ave., Oakland, drag-line work $0.11. Noted Mar. 25.

Contracts Awarded

Md., Baltimore — Excavating trenches in Eastern Dist., to M. L. Quinn, 5308 York Rd., $18,404.

La., Hammond—Comrs. Tangipahoa D. D. I, 69 mi. canals and laterals, 2,600,000 cu.yd. excav., 3 concrete and 33 timber bridges, etc., to Sternberg Dredging Co., Arcade Bldg., St. Louis, Mo. **(Contr. 1)** $278,444 (3) $12,900 **(4)** $9,120 **(5)** $23,-738; to Jacobson & Mortenson, Hammond, (2) $74,955. Noted Mar. 4.

O., Cleveland—Dredging Cuyahoga River and under and around city bridges, to Great Lakes Dredge & Dock Co., Williamson Bldg., $80,800 and $12,710 respectively. Noted Feb. 25.

Idaho, Lewiston—See "Dams."

Streets and Roads

Proposed Work

Vermont — State Hy. Dept., Montpelier, plans concrete paving 1.68 mi. roads in Hartford. Federal Aid appropriates towards cost. H. E. Sargent, ch. engr.

Mass., Boston—Plans to borrow $500,000 widening Oakland and Ashland Sts., West Roxbury Dist.; also plans laying out and constructing Greylock and Maple Sts., Brighton Dist., $25,000. J. H. Sullivan, comr. Dept. Pub. Wks.

Conn., Hartford — Plans widening, curbing, sidewalks and paving Windsor Ave. from Main to Capen Sts. $200,000. R. N. Clark, City Hall, engr.

Conn., New Haven—Plans asphalt paving State St. from Grand Ave. to Wall St., State St. from Ferry to James Sts., Whalley Ave. from Bway. to Sperry St., Whitney Ave. from Bradley to Trumbull Sts., Union Ave. from Carlisle to State Sts., and Willow St. from State to View Sts.; concrete paving Edgewood Ave. from West River Bridge to Alden Ave.; and granite block paving Water St. from Bell Dock approaches to Forbes Ave. S. A. York, pres. Permanent Paving Comn.

N. J., New Brunswick — Plans grading, curbing and paving Hale, Suydam, Bristol and Bethany Sts. $76,300. A. Atkinson, New Brunswick, engr.

N. J., New Egypt — Ocean Co. (Toms River) plans bituminous paving 4 mi. Whiteville Rd. from here to Grovers Corner. J. M. Abbott, Toms River, engr.

W. Va., Charleston—City Council soon takes bids surfacing, etc., 150,000 sq.yd. Madison and 11 other streets. $50,000. H. L. Campbell, 1550 Lewis St., engr.

W. Va., Fairmont—Unoin Dist. Marion Co., election May 11, $100,000 bonds, completing 3.5 mi. Fairmont-Grafton Rd. B. H. Palmer, Fairmont, engr.

W. Va., Lewisburg — Lewisburg Dist. Greenbriar Co., election May 1, $127,000 bonds, improving various roads. H. L. Handley, Lewisburg, engr.

W. Va., Parkersburg—Union Dist., Wood Co. election May 4, $112,000 bonds, constructing roads. W. Sharron, Parkersburg, engr.

Ga., Montezuma—Voted $32,000 bonds, paving various streets. J. Felton, mayor. Noted Feb. 18.

Fla., Clearwater—Election Apr. 27, $77,-000 bonds, causeway approach.

Miss., Pascagoula—Jackson Co. Dist. 4, voted $84,000 bonds, paving road from Ocean Springs north of Ft. Bayou to Jackson Co. line.

La., Benton—Bossier Parish takes bids about July 11, grading and paving (1 section) 37 mi. hardsurfaced and 38 mi. graveled roads of Louisiana State and Federal Aid, and (3 sections) 75 mi. graveled parish roads. $1,630,000. J. R. Wend, Court House, engr.

La., Cedar Grove — Making plans and takes bids about June 1, rein.-con. paving 7 blocks Caddo Ave., 30 ft. $50,000. C. D. Evans, 414 Levy Bldg., Shreveport, engr.

Tenn., Benton — Polk Co. appropriated $31,000, improving various roads.

Tenn., Huntington — Carroll Co. voted $172,000 bonds, improving 42 mi. various roads. Noted Apr. 1.

Tenn., Knoxville—Knox Co. voted $70,000 bonds, reconstructing and surfacing various highways.

Tenn., Marysville—Blount Co. voted $35,-000 bonds, improving highway from Townsend to Hendricks Gap.

Tenn., Sneedville — Hancock Co. voted $50,000 bonds, improving road from Claiborne Co. line to Virginia State line.

Ky., Henderson — Henderson Co., plans surfacing 17 mi. various roads, etc. To exceed $25,000.

O., Akron—W. F. Peters, dir. Pub. Serv., soon takes bids grading, curbing, walks and cindering 650 cu.yd. Herman Ave., $8,700, and 950 cu.yd. Laffer Ave., $12,700; grading, curbing, concrete sidewalks, etc., on 9,300 sq.ft. Bisson Ave., $9,000; grading, curbing, walks and ornamental lighting system and vitr. brick paving 5,680 sq.yd. Orlando Ave., $48,900; grading, curbing and vitr. brick paving 1,185 sq.yd. Whitney Ave. $8,300, 2,230 sq.yd. Oberlin St. et al, $17,900, and 6,730 sq.yd. Crouse St. et al, $48,000. E. A. Kemmler, Municipal Bldg., engr.

O., Cincinnati — Made plans repaving vertical fibre brick repaving 4,800 sq.yd. and sheet asphalt 10,500 sq.yd. Bway. from 4th St. to Reading Rd., $109,133; and concrete paving 12,500 sq.yd. Glenway Ave., $72,874. C. O. Sherrill, City Hall, engr.

O., Woodsfield — Made plans curbing, grading, brick paving, etc., 4th St. from Market St. to Wood St., Wood St. from 4th St. to Public Rd. St., Public Rd. Ct. from Wood to South High Sts., and South High St. from Public Rd. St. to its west terminus. $29,000.

O., Youngstown—Comrs. Mahoning Co. soon take bids bituminous macadam paving, etc., 6.009 mi. Canfield-Columbiana Rd., 18 ft. $167,000.

Ill., Avon—W. E. Marks, mayor takes bids about May 10 grading, curbing, and rein.-con. paving 6 blocks Main St. $48,000. R. M. Connolly, Bank of Galesburg Bldg., Galesburg, engr.

Ill., Chicago—Voted $12,500,000 bonds, widening various streets. $8,500,000 to be used this year.

Ill., Edwardsville—Madison Co. takes bids about May 1, grading and concrete paving 1.25 mi. Edwardsville-Poag Rd., and 2,000 ft. Glen Carbon Rd. W. E. Howden, Court House, supt.

Ill., Galva—Plans curbing, grading and rein.-con. paving 1½ mi. various streets 18 and 30 ft. $50,000. M. S. Morgan, City Hall, engr.

Ill., Kewanee — Plans grading, curbing, granite on rein.-con., brick or warrenite paving 6 blocks Tremont and 5th Sts., 30 ft. $34,886-$40,990. J. G. Palmer, City Hall, engr.

Ill., Savanna—Takes bids in May curbing, guttering, sewers and rein.-con. paving 2,000 sq.yd. Walnut St., 920 sq.yd. 4th St., 2,000 sq.yd. 4th and Webster Sts.; rein.-con. paving and 30,000 sq.ft. sidewalks on street and alley crossings in East Savanna and Oak Park. A. Schnell, 915 North 2nd St., Clinton, Ia., engr.

Ill., Springfield—Plans rein.-con. paving 1.8 mi. north and west sides enlarged Fair Grounds, 18 ft., $45,000; also grading, curbing and brick on concrete paving 9 blocks Mason St., 30 ft., $55,951. W. W. Seeley, City Hall, engr.

Wis., Fond du Lac — J. Hohensee, city clk., soon takes bids paving 55,000 sq.yd. various streets. G. H. Stanchfield, City Hall, engr. Noted Dec. 10.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., making plans widening Cedar and Biddle Sts. between 6th St. and Bway. $2,200,000. J. Schwada, City Hall, engr.

Ia., Burlington — Des Moines Co. voted $1,000,000 bonds, paving 32.3 mi. Primary Roads 8 and 20. C. E. Waterhouse, Burlington, co. engr.

Ia., Iowa City — Auditor Johnson Co. takes bids about May 1, grading, etc. 105,000 cu.yd. road. $30,000. G. M. Griffith, Iowa City, co. engr.

Minn., Duluth — City, W. H. Tischer, comr. made plans and takes bids about June 10, removing Point of Rocks between 8th and 14th Aves. W. by opening Superior St. on 4.9% grade through rock obstruction and West End Hillside Dist. by means of avenue which will cut an angle at 9th Ave., etc., 92,150 cu.yd. rock excav., 26,000 cu.yd. excav. and crushed walls, paving, curbing, sewers, etc. $478,852. J. Wilson, city engr.

Kan., Columbus—Cherokee Co., plans grading, gravel surfacing, etc. 6.481 mi. Federal Aid Project 299-A; and grading, concrete surfacing, etc. 1.328 mi. Federal Aid Project 96-A and C, both 18 ft. H. W. Tyrrell, Columbus, co. engr.

Kan., Wellington — Sumner Co. plans grading, sand clay surfacing, etc. 7.947 mi. Federal Aid Project 323-C, 18 ft. J. W. Mavity, Wellington, co. engr.

Kan., Wichita — Rejected bids concrete and asphalt paving various streets. $25,000. Will readvertise. P. L. Brockway, 1039 South Topeka St., engr. Noted Jan. 14.

Mo., Canton—See "Unclassified."

Mo., St. Louis—Made plans repairing wood block paving on Washington Ave. between 4th and Jefferson Sts., $20,000; reconstructing amiesite paving 2,890 sq.yd. Tamm Ave. $25,950, 2,445 sq.yd. Penrod St. $18,300, 2,215 sq.yd. Bischoff St. $19,-300, and 965 sq.yd. Columbia St. $8,100. W. W. Horner, 300 City Hall, engr.

Mo., Springfield — Making preliminary plans grading and concrete paving 4,504 sq.yd. Fort Ave., 930 sq.yd. Florence St., and 730 sq.yd. Benton St. S. R. Fisher, City Hall, engr.

Mo., Stewartsville—Voted $25,000 bonds, 6 and 7 in. concrete paving 9,000 sq.yd. various streets. W. Shikles & Co., 708 New York Life Bldg., Kansas City, engrs. Noted Apr. 1.

Mo., Warrensburg—Plans asphalt or concrete paving streets in residential district. To exceed $25,000.

Ark., Bentonville — Making preliminary plans grading, curbing and hardsurfacing 12 blocks Public Sq., West 12th, Main, West A and East 14th Sts. Engineer not selected.

Ark., Brinkley — Making preliminary plans grading and paving 6 blocks various streets, 56 ft. $30,000. T. W. Orr, mayor. Engineer not selected.

Ark., Dardanelle—Soon takes bids grading, curbing and concrete, asphalt or other hardsurfacing 37,000 sq.yd. streets in Paving Dist. 1. J. G. Lawrence & Co., Gazette Bldg., engrs.

Tex., Albany—Shackelford Co. making plans grading and bridging 17.36 mi. Highway 1, Federal Aid Project 495-A. $100,-000. L. C. McCanlies, Abilene, engr.

Tex., Angleton—Brazoria Co. plans grading, bridging and concrete on shell surfacing 11.74 mi. Highway 58, Federal Aid Project 442-A, 18 ft. $452,000. C. A. Gavin, Angleton, engr.

Tex., Brackettville—Kinney Co. election soon $200,000 bonds, improving 16 mi. highway radiating from here. Address County Commissioners.

Tex., Cuero—DeWitt Co. making plans grading, bridging and bituminous macadam paving 10 mi. Highway 21, Road Dist. 1, 18 ft. $245,000. W. H. Koether, Yoakum, co. engr.

Tex., Decatur—Wise Co. making plans grading and bridging 7.7 mi. Highway 39, Decatur-Jacksboro Rd., 26 ft. $56,000. H. R. Hayes, Decatur, co. engr.

Tex., Floresville — Wilson Co. making plans and takes bids within 30 or 40 days, rock asphalt paving, etc., 14 mi. San Antonio-Corpus Christi Highway, 18 ft. $150,-000. F. E. Hess, Floresville, co. engr. A. C. Love, Austin, state highway engr.

Tex., Henderson—Rusk Co. made plans and soon takes bids grading and bridging 3.522 mi. Highway 64 from Chapman to Panola Co. line, 26 ft. $36,500. C. R. Newton, Henderson, co. engr.

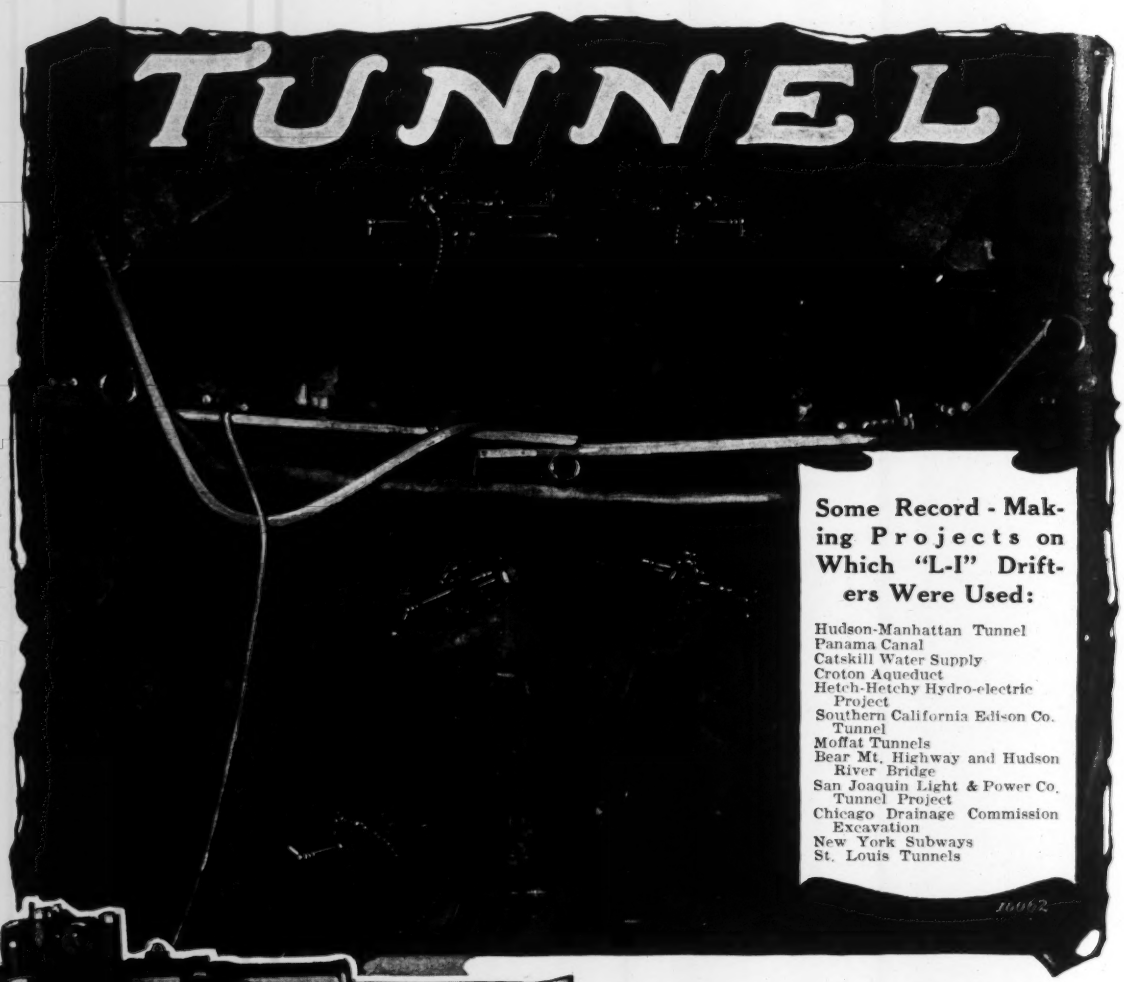
Tex., Karnes City—Karnes Co. takes bids after Apr. 26, grading and bridging 9.07 mi. Highway 12-A, Federal Aid Project 434-D, Unit 1. $57,000. O. N. Powell, Karnes City, engr.

Tex., Karnes City — Karnes Co. making plans limestone rock asphalt on 5 in. compacted waterbound macadam and 5 in. caliche paving 9.07 mi. Highway 12, Federal Aid Project 434-D, Unit 2, 18 ft. $150,000. O. N. Powell, Karnes City, engr.

Tex., Kingsville—Voted $125,000 bonds, paving various streets.

Tex., Laredo—Webb Co. making plans rock asphalt on caliche paving 13.246 mi. Highway 12-A, Federal Aid Project 436-A, 18 ft. $150,600. T. E. Huffman, Laredo, co. engr.

Tex., Marlin — Falls Co. rejected bids gravel resurfacing 9.22 mi. State Highway 44, Federal Aid Project 297, 16 ft. $25,000. Will readvertise. V. B. Harris, Rosebud, engr.



"Leyner-Ingersoll" Drifters Cut Tunnel Driving Costs

Increased population requires greater water supply. New and old industrial centers need cheaper power. The volume of transportation, both of people and commodities, is increasing daily.

These conditions are resulting in unprecedented activity in the building of tunnels for water supply, hydro-electric power, and railroads. The State of California alone has built over forty miles of hydro-electric tunnel since starting the famous Hetch-Hetchy project in 1916.

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Streets and Roads (Continued)

Tex., Quanah—Hardeman Co. made plans grading and bridging 7.76 mi. Highway 5 extending east of here, 26 ft. $28,000. J. B. Nabors, Quanah, co. engr.

Tex., San Juan—Election Apr. 27, $60,000 bonds permanent paving 30 blocks various streets. Address Mayor.

Tex., Taylor—Abilene Co. making plans grading and bridging 6.63 mi. Highway 1-A, Federal Aid Project 495-D. $40,000. L. C. McCanlies, Abilene, engr.

Tex., Vernon—Making plans paving 4 blocks Fannin St., 1 block Dawson St. and 1 block Wanderer St. $35,000. J. B. Nabors, Vernon, engr.

Okla., Carnegie — Making preliminary plans concrete paving 10 blocks various streets. Grant, Fulton & Letton, 213 Magnolia Bldg., Oklahoma City, engrs.

Okla., Hennessey—Voted $31,570 bonds grading, curbing and concrete paving 10,400 sq.yd. Oklahoma Ave. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Feb. 18.

Okla., Sapulpa — Plans concrete paving streets in Paving Dists. 81 and 82. $100,000. F. E. Laurence, Sapulpa, engr.

California—State Hy. Dept., Sacramento, made plans constructing 8 mi. Modesto-Ripon Highway, Stanislaus Co. $200,000. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., Los Angeles—Made plans improving Neptune Ave. and G St., 66,951 cu.yd. cut, 7,965 cu.yd. fill, 569,132 sq.ft. 7 in. and 583,286 sq.ft. 7 in. concrete paving, 300,175 sq.ft. one course walks, 166,351 sq.ft. 2 in. sheet asphalt on 6 in. concrete paving, curbing, etc. J. O. Shaw, City Hall, engr.

Calif., Los Angeles — Los Angeles Co. making plans curbing, guttering, paving, etc., portions of 114th Ave., Co. Impvt. 524. $125,000. G. Jones, Hall of Records, co. engr.

Calif., Oakland — Made plans grading, curbing, guttering, walks, and asphaltic concrete paving, etc., 37,649 sq.ft. 26th St. W. W. Harmon, city engr.

Calif., San Diego—Made plans improving Woolman Ave. between 30th and 40th Sts., 358,124 sq.ft. 5 in. concrete paving, 10,125 lin.ft. concrete curbing, 49,337 sq.ft. concrete sidewalk, etc. F. A. Rhodes, city engr.

Calif., San Francisco—Made plans walks, 1½ in. asphaltic concrete on 6 in. concrete surfacing, etc., 74,352 sq.ft. Fillmore St. between Cervantes and Marina Blvds. $28,000. M. M. O'Shaughnessy, city engr.

Calif., Santa Maria—Made plans curbing, guttering, and concrete paving 72,315 sq.ft. Church St. between Bway. and McClelland Ave., etc. Y. Peterson, city engr.

Ont., Fort Erie—Council plans asphalt on concrete, concrete or macadam paving 25,000 sq.yd. Bertie Rd. $100,000. Engineer not selected. A. E. Seaton, Fort Erie, clk.

Ont., Guelph—Wellington Co. plans concrete paving main road in Peel Twp., ½ mi. Moorefield, and ½ mi. Clifford, total 7 mi. long. $85,000. G. M. Fox, County Bldgs., engr.

Ont., Hamilton — M. McFaul, city engr. preparing plans concrete paving Melrose Ave., for City. $60,000.

Ont., St. Catharines—Plans concrete paving St. Paul, Geneva, Louisa, Ontario and Church Sts. B. F. Lamson, City Hall, engr. $100,000.

Ont., Toronto—Plans grading and paving, etc., Wineva Ave., $27,714; asphalt on concrete paving lane 1st west of Margueretta St., $13,969; concrete paving lane between Gladstone and Dufferin Sts., $20,000; opening and grading lane between Galley and Pearson Aves., $11,100, and Tedburgh Rd. extension, $9,850. R. C. Harris, City Hall, engr.

Ont., Windsor—Plans widening Arthur St., and concrete paving Bruce Ave. $68,000. M. E. Brian, City Hall, engr.

Ont., Woodstock — Oxford Co. plans graveling, grading, macadam and concrete paving various roads. $160,000. W. Forbes, Woodstock, road supt.

Que., Outremont—Appropriated $359,576, paving and grading various streets. E. Lacroix, city mgr.

Bids Desired

Massachusetts—Apr. 27, by Dept. Pub. Wks., Boston, bituminous concrete paving 3,764 ft. highway in West Bridgewater; also rein.-con. paving 4,600 ft. highway in Norwood, both 18 ft. W. F. Williams, comr.

Massachusetts — May 4, by Dept. Pub. Wks., Boston, rein.-con. paving 18,498 ft. highway in Somerset and Swansea, 18 ft. W. F. Williams, comr.

Mass., Brookline (br. Boston)—Apr. 26, by Bd. Selectmen, A. G. Killion, secy., Town Hall, bituminous macadam surfacing Wolcott Rd. $25,000.

Mass., Gardner — Apr. 27, by F. W. Proctor, supt. Streets, City Hall, reinforced paving 4,000 sq.yd. streets, also 20 ton single type self supporting reinforcement Havemayer bars, or 20 ton ½ in. square deformed bar, etc.; adv. E. N.-R. Apr. 22.

Mass., Roxbury (Boston P. O.)—Apr. 30, by Dept. Pub. Wks., Boston, sheet asphalt or bitulithic paving Huntington Ave. from Forsythway to Riverway, here. $28,000 bonds. J. H. Sullivan, comr.

Mass., South Boston (sta. Boston)—Apr. 29, by Dept. Pub. Wks., Boston, W. F. Williams, comr., bituminous macadam paving and regrading Anchor St., here. To exceed $25,000.

New York—May 7, by A. W. Brandt, comr. Highways, Albany, improving highways in Cortland, Genesee, Monroe and Oneida Counties; also reconstructing highways in Fulton, Monroe, Orleans, Putnam, Tompkins, Washington and Wyoming Counties; adv. E. N.-R. Apr. 22.

N. Y., Brooklyn—Apr. 28, by J. A. Guider, pres. Brooklyn Boro, Boro Hall, regulating, regrading and cement sidewalks on 7th Ave. and 67th St.; grading and curbing Bath, 15th, 21st and Miller Aves., East 27th and East 37th Sts.; grading and permanent asphalt on 6 in. concrete repaving Avenues M and R, Livonia, Willoughby, 7th, 12th and 21st Aves., Bergen, Decatur, East 27th, Hooper, Montgomery, West 5th, 47th, 55th, 67th, 70th and 71st Sts.

N. Y., New York—Apr. 27, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading, curbing, guttering and sidewalks on East 172nd and East 194th Sts., Harrold, Morrison, Lafayette, Pugsley, Edison and Barnes Aves.

N. Y., New York—Apr. 29, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading and sheet asphalt on concrete repaving Stanton, Goerck, and 32nd Sts.; granite block on concrete repaving Greenwich St.; grading and sheet asphalt repaving (except strip 10 in. adjacent to railroad tracks, which is to be 2 course granite block paving), 42nd St. and Madison Ave.

New Jersey — May 10, by State Hy. Comn., Trenton, grading and rein.-con. paving Route 9, Sect. 19 from Perryville to Clinton, Hunterdon Co. A. L. Grover, secy.; adv. E. N.-R. Apr. 22.

N. J., Freehold — May 5, by Bd. Freeholders Monmouth Co., rein.-con. paving approaches to Bridges 0-11, Sunset Ave., Wanamassa; and N-14 Grand Ave., Asbury Park. G. K. Allen, Jr., 60 Broad St., Red Bank, engr.; adv. E. N.-R. Apr. 22.

N. Y., Fulton—May 7, by Common Council, at office M. C. Baker, city clk., grading, curbing, guttering, sidewalks and asphaltic concrete paving various streets. H. S. Andrews, city engr.; adv. E. N.-R. Apr. 22.

N. J., Hopewell—Apr. 27, by Mercer Co. (Trenton), penetration macadam paving 1.25 mi. Hopewell-Stoutsburg Rd. $43,000. H. P. Harris, Trenton, co. engr. Noted Nov. 12.

N. J., Salem—May 7, by Road Com. Bd. Freeholders Salem Co., reconstructing Woodstown-Swedesboro Rd. from Route 6, State Highway System at Railroad bridge at Woodstown and ending at Gloucester Co. line at Oldmans Creek. H. B. Keasbey, Salem, co. engr.

Pa., Altoona—Apr. 26, by City Council, W. J. Hamer, clk., City Hall, 40,000 sq.yd. concrete, 11,300 sq.yd. bitulithic and 10,000 sq.yd. vibrolithic paving 24 streets. H. J. Baum, city engr.

Pa., Clearfield—Apr. 26, Boro Council, G. E. Rosser, pres., concrete paving 5,000 ft. Gulch Ave., Locust, Weaver, West Front, 5th and Witmer Sts., 20 ft. $50,000. E. W. Hess, boro engr. Noted Mar. 25.

Pa., Montgomery — May 7, by Boro Council, W. E. Schnee, secy., grading, rein.-con. paving, etc. 3,000 ft. Broad St., 22 ft. $30,000. M. C. Krause, Larrivee Bldg., Williamsport, engr.

Pa., Phila.—Apr. 27, by Dept. Pub. Wks., Bureau of Highways, Schedule A, grading various streets; Schedule B, asphalt repaving; Schedule C, granite block repaving; Schedule D, paving and repaving Levington Ave.; Schedule E, grading, paving and repaving various streets; Schedule F, improving country roads; Schedule G, widening 15th and 16th Sts.; Schedule H, furnishing asphalt paving mixture; and Schedule I, paving and repaving certain alleys. G. H. Biles, dir.

Maryland—May 4, by State Roads Comn., Baltimore, macadam resurfacing 2.4 mi. Contr. W-45, Washington Co. and 1.2 mi. Contr. F-60, Frederick Co.; concrete paving 2 mi. Contr. B-78 Baltimore Co., 1 mi. Contr. Ce-55 Cecil Co., 1.44 mi. Contr. Wi-34 Wicomico Co., and 1.75 mi. Contr. Wo-37 Worcester Co. H. N. Mackall, chn.; adv. E. N.-R. Apr. 22.

Md., Baltimore—Apr. 28, by Bd. Awards, grading and sheet asphalt paving 10,610 sq. yd. Contr. 334, and 7,800 sq.yd. Contr. 335; also concrete paving 8,600 sq.yd. Contr. 333. S. Purcell, City Hall, highways engr.

Virginia—May 4, by State Hy. Comn., Richmond, grading, curbing and bituminous concrete surfacing, etc., 50,193 sq.yd. Route 21, Project F-421-A and B, Page Co. E. J. Shirley, chn.

W. Va., Lewisburg—Apr. 17, at office W. L. Tabscott, recdr., 7 in. concrete paving 3,000 sq.yd., bituminous macadam on reconstructed paving 5,500 sq.yd., and surface treating 3,600 sq.yd. various streets. $28,000. Noted Feb. 18.

W. Va., Morgantown — May 17, by Monongalia Co. Court, broken stone macadam paving 4.8 mi. project 3 and 4, 16 ft., Clinton Dist., $72,000. A. J. Baritell, Morgantown, engr.

W. Va., Morgantown—May 17, by Court, Magnolia Co., improving 6 mi. Wadestown-Blackwell Rd., Project 3366, and 6 mi. Fairview Rd., Project 2, both Batelle Dist. J. M. Gregg, co. clk.; adv. E. N.-R. Apr. 22.

W. Va., Wellsburg—Apr. 27, by Street Com., C. McGlumphy, chn., resurfacing various streets. M. E. Boyd, city engr.

North Carolina — May 4, by State Hy. Comn., Raleigh, hard paving 67.22 mi. roads in various counties; sand clay, top soiling and gravel surfacing 40.84 mi. various counties; and bridges in 2 counties; adv. E. N.-R. Apr. 22.

Ga., Eastman—May 5, by M. C. Edwards, city mgr., curbing, sidewalks and concrete paving 23,000 sq.yd. various streets. W. M. Cook, 534 Washington St., Macon, engr.

Florida—May 5, by State Rd. Dept., Tallahassee, clearing, grubbing, grading, etc., 14.17 mi. and 9.95 mi., various roads, 30 ft., Levy Co. J. L. Cresap, Tallahassee, engr.

Ala., Birmingham — June 1, by City Comn., asphalt on concrete paving 5 blocks 7th Ave., 60 ft. $44,100, and 3 blocks 10th Ave., 40 ft. $20,325; asphalt paving 1 block 3rd Ave. S., 40 ft. $8,000 and 1 block Ave. H (Ensley), 40 ft. $1,570. Address City Engineer.

Miss., Hattiesburg — Apr. 27, by Bd. Supervs. Forrest Co., improving 5.7 mi. Federal Aid Projects 69-A, 70-A, 71-A and 73-B, 427 ft. 18 and 24 in. culvert pipe, 21,862 lb. reinforcing, 59,357 sq.yd. paving, 1.9 mi. Bermuda sod, bridges over 20 ft. span, incl. 9,558 lb. structural steel, 68,136 lb. reinforcing, 3,680 lb. piling, 146,729 ft. creosoted timber, etc. H. C. Dietzer, Jackson, engr.

Miss., Long Beach—May 4, by Mayor & Bd. Aldermen, improving various streets, 12,033 sq.yd. concrete sidewalks, 9,133 ft. concrete curbing, 14,630 ft. combined curb and gutter, 1,400 cu.yd. grading, etc. R. Girnon, Jr., city engr.

Miss., Philadelphia—May 4, by Mayor and Bd. Aldermen, improving Myrtle St., 1,700 cu.yd. paving, 1,000 cu.yd. excav., 450 ft. 12 and 15 in. storm, 850 ft. 8 in. sanitary sewers, etc.

Louisiana—Apr. 27, by State Hy. Comn., Baton Rouge, graveling 7.47 mi. Livonia-Opelousas Highway, Federal Aid Project 169-B, St. Landry Parish. W. R. Robert, Reymond Bldg., Baton Rouge, highway, engr.

Kentucky—May 10, by State Hy. Dept., Frankfort, **(F. A. P. means Federal Aid Project and S. A. P. means State Aid Project)**, grading 6.4 mi. Glasgow-Elbow Springs-Burkesville Rd., F. A. P. 116-B, and 7.5 mi. Glasgow-Scottsville Rd., F. A. P. 28-A Barren Co., 12.8 mi. Bardwell-Paducah Rd., S. A. P. 9½-A Carlisle Co., 2.2 mi. Hopkinsville-Guthrie Rd., F. A. P. 123-A Christian Co., 4.7 mi. Owensboro-Stanley Rd., S. A. P. 8-F, and 3.4 mi. Owensboro-Beech Grove Rd., S. A. P. 76-A, both Daviess Co., 8.2 mi. Mt. Vernon-Stanford Rd., F. A. P. 148-A, Rockcastle Co., and 10.6 mi. Hopkinsville-Guthrie Rd., F. A. P. 123-B, Todd Co.; surfacing 11.5 mi. Pineville-Harlan Rd., F. A. P. 151 Bell Co., 3.8 mi. Elizabethtown-Hodgenville Rd., F. A. P. 118-A Hardin Co., 14.8 mi. Harlan-Pineville Rd., F. A. P. 151 Harlan Co., 1 mi. Hodgenville-Elizabethtown Rd., F. A. P. 118-A Larue Co., 2.9 mi. Richmond-Mt. Vernon Rd., F. A. P. 88, Madison Co., 6.6 mi. Mt. Vernon-Richmond Rd., and F. A. P. 88, Rockcastle Co.; grading and surfacing 3.1 mi. Owensboro-Stanley Rd., S. A. P. 8-E, Daviess Co. E. N. Todd, highway engr. Noted Apr. 15.

O., Akron—May 1, by Comrs. Summit Co., brick paving and widening from 14 to 20 ft. 5 mi. Manchester Rd. $75,000.

O., Akron—May 10, by W. F. Peters, dir. Pub. Serv., grading, curbing and vitr. brick paving 5,900 sq.yd. Peerless Ave. $50,500, 6,730 sq.yd. Crouse St. et al., $48,000, and 2,230 sq.yd. Oberlin St. et al., $17,900; also grading and cindering 400 cu.yd. Sheck St. $6,600, and 725 cu.yd. Hunt St. $4,900. E. A. Kemmler, Municipal Bldg., engr. Noted Apr. 8.

O., Cincinnati—Apr. 23 (extended date), by Comrs. Hamilton Co., grading and con-

Streets and Roads (Continued)

crete paving 12,000 sq.yd. North Bend Rd. from Burnt School House to Yogel Rds. $41,721; and 22,575 sq.yd. Camargo Rd. from corporation line of Maderia to Allendale, $96,516. E. A. Gast, Court House, engr. Noted Apr. 1.

O., Cleveland—Apr. 28, by City, grading, curbing and paving Dillewood Rd. N. E., East Blvd. S. E., Mt. Vernon Ct. S. W., East 18th St., Adeline Ave. S. W., Albers Ave., Alger Ave. N. W., Burnside Ave. N. E., Kazimer Ave. S. E., Schiller Ave. S. W., and Western Ave. N. W., Abell Ave. S. E., from East 123rd to East 130th Sts., Abell Ave. S. E., from East 130th to East 140th Sts., East 30th St. from Prospect to Central Aves., East 30th St. from Prospect to Euclid Aves. $500,000. R. Hoffman, City Hall, engr.

O., Columbus—May 5, by Comrs. Franklin Co., grading and waterbound macadam paving, etc., 0.51 mi. Central Ave. $12,306, 0.566 mi. 1st Ave. $13,424, and 1.085 mi. Coffman Rd., $15,929, all 16 ft.; 0.53 mi. Harper Rd. $17,464, and 0.106 mi. Deshler Ave., $3,841, both 20 ft. C. C. Lattimer, Court House, engr. Noted Apr. 8.

O., Rocky River—May 4, by Village, asphaltic concrete paving 11 streets. $100,000. E. H. Arnold, Town Hall, engr.

Ind., Elkhart—Apr. 23, by Bd. Pub. Wks., sheet asphalt or asphaltic concrete paving McDonald St., $39,800; laying 5 ft. standard concrete sidewalks on Blaine Ave. $2,620, Hubbard Ave. $2,600, Benham Ave. $400, 6th St. $420, and Compton Ave. $750.

Ind., Evansville—Apr. 28, by City Comn., asphaltic concrete, brick or asphaltic concrete on concrete paving 5 streets. $80,000.

Nebraska—Apr. 29, by Dept. Pub. Wks., State House, Lincoln, **(F. A. P. means Federal Aid Project and S. A. P. means State Aid Project)**, gravel surfacing, etc. 140,400 sq.yd. F.A.P. 156-A, 10.9 mi. F.A.P. 228-B, 205,000 sq.yd. F.A.P. 278-A, 41,000 sq.yd. F.A.P. 143-F, 113,700 sq.yd. F.A.P. 29, 3,080 sq.yd. S.A.P. 8, 81,000 sq.yd. F.A.P. 4, 41,750 sq.yd. F.A.P. 49-A, 197,000 sq.yd. F.A.P. 266-A, 193,700 sq.yd. F.A.P. 263-B, 42,000 sq.yd. F.A.P. 153-C, 83,900 sq.yd. F.A.P. 127-A, 122,500 sq.yd. F.A.P. 134-B and 87,800 sq.yd. F.A.P. 70-D; grading, etc. 155,000 cu.yd. F.A.P. 292-A, 70,000 cu.yd. F.A.P. 34-C, 13.2 mi. F.A.P. 275-A, and 130,000 cu.yd. F.A.P. 136-D; brick, sheet asphalt, bituminous or concrete paving 14,384 sq.yd. F.A.P. 91-D. R. L. Cochran, highway engr.

Ind., Fowler—May 3, by Bd. Comrs. Benton Co., Court House, grading and crushed limestone paving 15,736 ft. Edward Pitstick, et al Rd., Hickory Grove Twp. $27,761.

Ind., Vincennes—May 4, by comrs. Knox Co., grading and concrete paving 3.302 mi. J. B. E. LaPlante County Unit Rd. $81,419, and 0.564 mi. James Hankins et al., Rd. $12,038, both Vincennes Twp.; grading and graveling, etc. 1.238 mi. Matt Keller et al., Rd., Johnson Twp. $7,100, and 2.197 mi. H. P. Hoke et al., Palmyra Twp. $19,070.

Mich., Flint—Apr. 26, by Genesee Co., graveling 3.039 mi. A. D. Rd. 69, and 4.43 mi. A. D. Rd. 76.

Mich., Wayne—Apr. 27, by I. K. Comer, village clk., curbing, concrete or sheet asphalt paving 80,000 sq.yd. Michigan Ave. and various streets. Boulay-Harrison Co., 912½ Bway., Toledo, O., engrs.

Ill., Chicago—Apr. 28, at office Bd. Local Impvts., Room 207, City Hall, improving Walden Parkway, Ave. F, Christiana North Hamlin, Langley, North Lorel, Potomac, Lowe, South Union and Emerald Aves., Crystal, North Sangamon, North State, West 34th, South Wood, West 98th, West 112th, West 113th and West 114th Sts., and 13 alleys. J. J. Sloan, pres.

Ill., Peoria—Apr. 28, by W. E. Emery, supt. Highways, grading and rein.-con. paving 18,224 sq.yd. Sect. Y-15-D, State Route 1, Mt. Hawley Rd. $50,000.

Wisconsin—Apr. 27, by State Hy. Comn., Div. Office 1, Capitol Annex, Madison, grading, concrete paving, etc., 75,288 sq.yd. Federal Aid Project 428-A and B, Rock and Jefferson Counties. J. T. Donaghey, ch. engr.

Wisconsin—Apr. 28, by State Hy. Comn., Div. Office Court House, La Crosse, grading, crushed stone surfacing, etc., 14,562 cu.yd. Federal Aid Project 412-A, State Job 5852, and 6,747 cu.yd. State Job 5891 Vernon Co., 4,583 cu.yd. Federal Aid Project 87-S, 3,881 cu.yd. Federal Aid Project 390-A, and 4,783 cu.yd. State Job 5892, La Crosse Co.; also gravel surfacing 4,406 cu.yd. and shale surfacing 17,621 cu.yd. Federal Aid Project 368-A, Trempealeau Co.; and Coon Valley Bridge, 120 ft. steel truss span, etc., on State Job 5891-B-5682, Vernon Co. J. T. Donaghey, Madison, ch. engr.

Wis., Wauwatosa—Apr. 30, by Bd. Pub. Wks., A. Brigham, secy., rein.-con. paving, etc. 16,510 sq.yd. Stickney and Gridley Aves., Pleasant and Albert Sts. J. E. Lowther, City Hall, engr.

Ia., Cedar Rapids — Apr. 27, by Auditor Linn Co., graveling 4 mi. Road 2, and 6.5 mi. Road 6.

Ia., Creston — May 6, at office Auditor Union Co., improving 3.784 cu.yd. Clark Co. Line Rd. W., Federal Aid Project 83, 49,431 cu.yd. excav., 2,253 sta.yd. overhaul, 3,543 ft. 6- to 12-in. tile drain, etc.

Ia., Garner—Apr. 27, by Auditor Hancock Co., graveling Hutchins-Corwith Rd. and Hutchins-Woden Rd. C. F. Merten, Garner, co. engr.

Ia., Ottumwa — Apr. 22, by City, E. J. Chambers, city clk., paving 25 blocks various streets, 24 and 30 ft. $100,000. E. J. Chambers, city clk.

Ia., Red Oak—Apr. 28, by Auditor Montgomery Co., grading 193,302 cu.yd. primary road north of Villisca. G. Cole, Red Oak, co. engr.

Ia., Toledo — Apr. 29, at office Auditor Tama Co. improving 6.809 mi. primary road south of Tama, Federal Aid Project 257, 116,691 cu.yd. excav., 107,000 sta.yd. overhaul, etc. L. W. Croft, Toledo, co. engr.

Ia., Vinton — Apr. 27, at office Auditor Benton Co., improving 26.343 mi. Federal Aid Projects 251, 258, 263, 278 and 285, 347, 546 cu.yd. excav., 237, 485 sta.yd. overhaul, etc.

Minn., Marshall — May 3, by R. D. Houdersheldt, aud. Lyon Co., improving Lynd-Balaton Highway, State Aid Rd. 3, Job 2609, 127,000 cu.yd. excav., 3,000 ft. portable and 189 cu.yd. monolithic concrete culverts, also one 40 ft. low truss bridge. $30,000.

Minn., St. Paul — Apr. 27, by A. E. Eggert, city purch. agt., relaying and repairing cement sidewalks on various streets. G. M. Shepard, city engr.

Minn., St. Paul—May 3, by G. J. Riess, aud. Ramsey Co., grading, 7.5 in. rein.-con. paving, etc. 21,730 sq.yd. Frost Ave. $80,000 P. N. Coates, 900 Guardian Life Bldg., engr.

Kan., Alma—May 21, by Clerk Wabaunsee Co., grading, etc., 6.053 mi. Federal Aid Project 292-D, 28 ft. F. Itz, Alma, co. engr. Noted Oct. 15.

Kan., Independence — See "Contracts Awarded."

Kan., Lyons—Apr. 29, by D. Bruna, clk. Rice Co., concrete and brick surfacing 2.064 mi. Old Santa Fe Trail, Federal Aid Project 331-A, 18 ft.

Kan., Russell—May 7, by Clerk Russell Co., grading, etc., 49,150 cu.yd. Federal Aid Project 301-C. F. S. Gilmore, Russell Co., co. engr.

Nebraska — State Hy. Dept., Lincoln, taking bids 2 in. gravel surfacing 61,200 sq.yd. Sargent-Taylor Rd., Federal Aid Project 42-A, in Broken Bow. R. L. Cochran, Lincoln, engr.

Nebraska—Apr 26, by Dept. Pub. Wks., State House, Lincoln, 3 in. gravel surfacing, etc. approximately 7,600 sq.yd. Eagle-Elmwood Rd., Project 153-B, Plattsmouth Co. R. L. Cochran, Lincoln, engr.

Nebraska—Apr. 30, by Dept. Pub. Wks., State House, Lincoln, **(F.A.P. means Federal Aid Project)** gravel surfacing, etc. 198,200 sq.yd. F.A.P. 168-B, 97,100 sq.yd. F.A.P. 284-A, 6,400 sq.yd. F.A.P. 71-F, 104,000 sq.yd. F.A.P. 200-A, 64,500 sq.yd. F.A.P. 21, 56,500 sq.yd. F.A.P. 287, 45,400 sq.yd. F.A.P. 96-D, 70,970 sq.yd. F.A.P. 45-B, 130,400 sq.yd. F.A.P. 254-B, 83,100 sq.yd. F.A.P. 243-A, 75,000 sq.yd. F.A.P. 80-B, 166,600 sq.yd. F.A.P. 108, 3.5 mi. F.A.P. 139-C, 47,000 sq.yd. F.A.P. 68-D, 81,800 sq.yd. F.A.P. 139-G, 18,000 sq.yd. F.A.P. 139-J, 69,000 sq.yd. F.A.P. 83-A, and 74,100 sq.yd. F.A.P. 281-A; grading, etc. 20,200 cu.yd. F.A.P. 111-C, 79,500 cu.yd. F.A.P. 245-B, and 134,600 sq.yd. F.A.P. 221-C; and 3 bridges on F.A.P. 69-B. R. L. Cochran, Lincoln, highway engr.

South Dakota — Apr. 27, by State Hy. Comn., Pierre, grading 1.16 mi. White River Bridge approach, State Aid Project 137, Mellette Co., 20,516 cu.yd. excav. and 23,920 cu.yd. overhaul; concrete culverts and headwalls on 32.02 mi. State Aid Project 42, Corson Co., 1,184 cu.yd. concrete and 113,742 lb. reinforcing; also two 60 ft. viaducts on same project, 186 cu.yd. concrete, 20,807 lb. reinforcing and 90,996 lb. structural steel, etc. J. C. Botterman, Pierre, highway engr.

Neb., Hayes Center—May 1, by Clerk Hayes Co., 3 in. gravel surfacing, etc., 52,000 sq.yd. Culbertson-Hayes Center Rd., Project 126-A, and 30,300 sq.yd. Hayes Center-North West Rd., Project 63-A. R. L. Cochran, Lincoln, highway engr.

Mo., Stanberry—Apr. 26, by City Clerk, grading, curbing, guttering and concrete paving 5,513 sq.yd. various streets. Leslie Eng. Co., St. Joseph, engrs.

Arkansas—Apr. 29, by State Hy. Dept., Little Rock, grading and graveling 8 mi. Magnolia-Village Rd., Federal Aid Project 232-A; improving 8.3 mi. Camden-Stephens Rd., Federal Aid 223-B, Ouachita Co., 19.51 acres clearing, 15.04 acres grubbing, and 86,352 cu.yd. excav., etc. R. C. L[illegible], Little Rock, state highway engr. Noted Apr. 22.

Texas — Apr. 29, by H. Mosel[illegible], State Hy. Comn., Austin, grading and bridging 9.098 mi. State Highway 7, Federal Aid Project 498, 26 ft. Nolan Co. [illegible] 000; also 2½ in. bituminous macad[illegible] sledged stone paving 7.9 mi. Highway 2[illegible] Federal Aid Project 304-B, Unit 2, Travis Co., 18 ft. $80,000.

Washington—May 4, by State Hy. Comn., Olympia, grading, etc. 207,500 cu.yd. Federal Aid Project 161-A, Yakima Co., 87,000 cu.yd. Federal Aid Project [illegible] Kittitas Co.; 73,000 cu.yd. Chimacum-Port Townsend Rd., Jefferson Co.; and [illegible] cu.yd. Lake Southerland-Elwha River Rd., Clallam Co.; also 100,000 cu.yd. Federal Aid Project 153-B, Mason Co. [illegible] W. Hoover, highway engr.

Wash., Bellingham — May 5, by City Comrs., grading, paving, etc. 5 streets. $58,000. J. C. Hills, Bellingham, engr.

Wash., Olympia — Apr. 30, by Comrs. Thurston Co., improving roads, [illegible] cu.yd. excav., 1,300 cu.yd. overhaul, [illegible] 8 and 12 in. concrete pipe, etc. N. R. McKay, Olympia, engr.

Wash., Port Angeles—May 4, by Comrs. Clallam Co., graveling 10 mi. Twin-Peaks Rd. F. Sullivan, Port Angeles, engr.

Wash., Seattle—Apr. 30, by City Comrs. concrete paving, etc. 31,100 sq.yd. Columbia-Yakima Sts. M. Zahren, Wenatchee, engr.

California—May 3, by State Hy. Comn., Sacramento, concrete shoulders and asphalt or bituminous surfacing 6.9 mi. road between San Juan and Hollister, San Benito Co.; also widening with concrete shoulders 8,475 cu.yd. Whitewater River and Edom, Riverside Co. R. M. Morton, Forum Bldg., Sacramento, highway engr. Noted Apr. 15.

Calif., Colusa—May 4, by Supervs. Colusa Co., grading, graveling and asphaltic concrete paving 39,705 sq.ft. road from Colusa Drawbridge east along Butte Creek Rd. J. M. Felknor, Colusa, co. engr.

Calif., Hayward—Taking bids improving A St. between Western Pacific R.R. and Southern Pacific R.R. tracks, 98,980 sq.ft. grading and 1½ in. Warrenite bituminous on 3½ in. asphaltic concrete surfacing, 9,310 sq.ft. concrete guttering, 3,221 lin.ft. concrete curbing, etc. J. B. Holly, Bank of Italy Bldg., engr.

Calif., Marysville—May 3, by Supervs. Yuba Co., grading and 2½ in. Warrenite-bitulithic surfacing, etc., 95,040 sq.ft. Hammonton Rd. $30,000 or more. J. R. Meek, Marysville, co. surv. Noted Mar. 25.

Calif., Martinez — May 3, by Supervs. Contra Costa Co., improving 2,500 lin.ft. Harbor Blvd., 8,500 cu.yd. excav., etc. Former bids rejected. R. R. Arnold, Martinez, co. surv. Noted Mar. 18.

Calif., Ventura — Supervs. Ventura Co. taking bids improving Grimes Canyon Rd., 70,000 cu.yd. excav. and removal, 100 cu.yd. concrete culvert, 6,000 lbs. reinforcing. C. W. Petit, Ventura, co. surv.

Ontario — Apr. 30, by S. L. Squires, deputy minister Dept. Highways, Parliament Bldgs., Toronto, concrete and asphalt paving 38.62 mi. Contr. 26-116 to 127 (inclusive) $1,200,000; macadam paving 13.8 mi. Contr. 26-128 to 130 (inclusive); bituminous paving 7.72 mi. Contr. 26-131 and 3.5 mi. Contr. 26-132, $70,000; oiling and spraying 39.8 mi. Contr. 26-133 to 136 (inclusive) $100,000; grading Contr. 26-137 and 138, $25,000; and concrete bridge on Contr. 26-139, $20,000. R. M. Smith, 110 University Ave., Toronto, engr.

Ont., Ottawa—Apr. 27, at office Commission, 279 Carling Ave., bituminous surfacing 2½ mi. Metcalfe Rd., 3,200 tons crushed stone on Merivale Rd., and supplying 80,000 gal. bituminous material. A. K. Hay, engr.

Bids Received

N. Y., Brook Haven—Concrete road on north shore, from J. Romeo, Patchogue, $39,649.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, Apr. 14, from F. DeVito, 158 17th St., grading Ashford St. $5,382, East 12th St. $3,484, East 27th St. $3,171, West 5th St. $3,700, West 7th St. $4,098, West 9th St. $5,567, 54th St. $2,494, 56th St. $3,868, and 71st St. $5,136, from Castle Bros., Inc., Johnson Pl., Bedford Ave. $3,843, East 9th St. $3,847, and Avenue H $3,855, from V. Peconi, 581 Prospect Ave., East 27th St. $2,949, East 35th St. $891, Ryder Ave. $1,248, and 64th St. $2,045, from A. E. Castle, Inc., 3313 Tilden Ave., East 37th St. $3,416, and Remsen Ave. $6,877, from F. Persicano, 489 Lenox Ave., 56th St. $3,163; from Borough Asphalt Co., 1301 Metropolitan Ave., asphalt paving Bedford Ave. $9,819, Brooklyn Ave. $10,205, East 8th St. $4,585, East 27th St. $7,590, East 29th St. $7,987, Remsen Ave. $4,361, Ryder

Streets and Roads (Continued)

Ave., 3,230, Schenck Ave. $4,283, 11th Ave. $17,456, and 54th St. $5,392; from Uvalde Asphalt Paving Co., 1 Bway., New York City, East 35th St. $3,025, from Cranford Co., 52 9th St., Powell St. $5,939, from B. Turecamo Contg. Co., 8706 Bay 12th St., 7th St. $6,513, 56th St. $6,734, 80th St. $7,765, and granite paving 82nd St. $18,216. Noted Apr. 8.

N. Y., Buffalo—Paving with **(a)** brick **(b)** Mexican asphalt **(c)** standard asphalt on **(1)** Dewey Ave. **(2)** Lisbon Ave. **(3)** Millicent Ave. **(4)** Rounds Ave. **(5)** Rutgers St. (Hewett Ave.), from B. F. Spire, 24 Colonial Circle, **(a1)** $9,645; from Rock Asphalt & Constr. Co., Morgan Bldg., **(c1)** $9,298 **(c3)** $34,834 **(c4)** $51,908; from Standard Paving Ltd., 54 Frelinghuysen Ave., Newark, N. J., **(b1)** $9,750 **(b2)** $37,-175 **(b3)** $7,380 **(b4)** $57,525 **(b5)** $55,100; from H. P. Burgard Co., 1965 Filmore Ave., **(c2)** $35,347 **(c5)** $52,145.

N. Y., New York — H. Bruckner, pres. Boro, Crotona Park, 3rd and Tremont Aves., Apr. 15, sheet asphalt repaving Prospect Ave. from Boston Rd. to Crotona Park West, and Claremont Parkway from 3rd to Fulton Aves., from Interboro Asphalt Paving Co., 2306 Creston Ave., $12,-778 and $15,771 respectively. Noted Apr. 8.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Apr. 16, relocating curb on easterly side Nagle and St. Nicholas Aves., etc., from Valatia Constr. Co., 15 East 40th St., $2,393; grading and sheet asphalt repaving Bway., from Gaffney Constr. Corp., Grand Central Terminal Bldg., $113,837; grading, curbing and granite block on concrete paving East 138th St., from St. George Paving Co., 90 West St. $10,775, and Madison St., from Casper Helbock Co., Inc., 633 Wales Ave. $186,971. Noted Apr. 15.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing and flagging Payson Ave. from Beak St. to Seaman Ave., from T. DiRoma, 33 Evelyn Pl., $38,419. Noted Apr. 15.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Apr. 13, bituminous concrete paving Tompkins St. from J. E. Donovan Paving Co., Richmond Terrace, Port Richmond, $30,883; concrete paving in yard garbage destructor at West New Brighton, from Richmond Paving Co., Ft. Wadsworth, $3,419. Noted Apr. 8.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, Apr. 8, from D. Duffin, 5101 Roosevelt Blvd., grading Anchor St. $730, Brill St. $965, and Summerdale St. $8,985, from Gudknecht & Cullison, Torresdale St. and Robbins Ave., Bleigh and Whitaker Sts. $2,090, and Levick St. $3,086, from T. P. Lee, 5629 Cherry St., Callowhill and Girard Sts. $21,135, from Dewees Bros., 7200 Shellbourne St., Hunting Park, N. Cayuga, Claridge, Dungan, Glendale, Howland, Luzerne, Markland, Maywood, Neilson and Ormond Sts. $57,267, Frontenac and Loretta Sts. $4,401, and Tyson St. $1,411, from S. C. Ratzell, Limekiln Pike and Harris St., Cornelius, Herman and Tulpehocken Sts. $12,025, from Curtis Bros., State Rd. and Unruh St., E. Emerson, Hoffnagle and Ryders Sts. $2,709, Philmont St. $7,572, from J. F. Nolen & Sons, 64 Church Lane, 65th Ave., Fern, Edna, Franklin, Front, Gale, Lawrence, Spencer, 2nd, 4th, 9th, 11th and 12th Sts. $40,165, from J. J. McHugh, 1617 Rac St., Foust St. $925, Ritner and 12th Sts. $1,256, from L. Dolente, 5122 Master St., Glen-Echo St. $21,771, and from J. F. Mallory, 15 East Mermaid Lane, Sydenham and 65th Sts. $5,047; from Barber Asphalt Co., 239 North 30th St., Asphalt paving Durham St. $5,262, Limekiln Pike $12,196, Ogontz St. $71,921, East School Lane $4,583, Upland Way $23,935, Webb St. $3,179, Wyncote St. $12,897 52nd St. $19,989, 66th St. $15,797, 67th St. $7,510, asphalt repaving Carlisle, Fernon, McClellan, Mountain, Pierce and Sigel Sts. $43,996, Haverford St. $163,428, Randolph St. $4,473, Redner and Swain Sts. $8,484; from Union Paving Co., 30th and Locust Sts., asphalt paving Erie St. $175,993, asphalt repaving Allegheny St. and track area $51,178, Lehigh St. $92,290, Christian St. $8,325, Edgemont St. $4,973, Lambert, Marvine, Olive and Opal Sts. $7,887; from Eastern Asphalt Paving Co., Penna Bldg., asphalt paving Kingessing St. $50,499, Roanoke St. $6,145, Wakeling St. $6,713, 17th St. $5,898, 61st St. $2,900, and Chester St. $2,262, from Mack Paving & Constr. Co., Nicetown Lane and Luzerne Sts., Spencer St. $16,806, Stokley St. $26,758, 17th St. $7,343, and 66th St. $24,357; from United Paving Co., Real Estate Trust Bldg., redressed granite block repaving Bridge St. $67,360, Stewart, Stillman, Taylor and Turner Sts. $12,764, 12th St. (track area) $18,750, 24th St. $6,831, and concrete paving in front of Commercial Museum near 34th and Spruce Sts. $7,172; from Municipal Paving Co., 702 Catharine St., redressed granite block repaving Richmond St. $68,117.

Delaware—State Hy. Dept., Dover, Apr. 14, improving with **(a)** stone **(b)** slag **(c)** stone concrete **(d)** slag concrete **(*)** metal joint **(†)** non-metal joint. **(1)** 0.28 mi. Bear Station Crossing Elimination, Contr. 58, **(2)** 3.85 mi. Ginns Corner-Middletown, Contr. CN-32, **(3)** 1.25 mi. Rising Sun-Lebanon, Contr. CK-31, from Stewart & Donohue, Wilmington, **(1a** and **1b)** $9,084 each **(2*)** $168,134 and **(2†)** $167,116; from George & Lynch, Dover, **(3c*)** $36,037 **(3c†)** $35,640 **(3d*)** $35,164 **(3d†)** $35,640 **(3d*)** $35,164 **(3d†)** $34,167. Noted Mar. 25.

Maryland—State Rds. Comn, Baltimore, graveling 1.69 mi. Contr. C-23, Calvert Co.; from E. R. Jarvoe, Mechanicsville, $22,987; concrete paving 2.05 mi. Contr. G-34, Garrett Co., from T. D. Claiborne Co., Garrett Bldg., Baltimore $44,231, 1 mi. Contr. Cl-56, Carroll Co., from Hoffinberger & Mause, Myersville $17,737, and 1.35 mi. Contr. Q-36, Queen Annes Co., from J. K. Flick, Sudlersville $19,938; concrete shoulders and resurfacing 4.51 mi. Contr. Wi-6-B, Wicomico Co., from Hanneman-Burroughs Co., Salisbury, $75,172; concrete shoulders on 5.2 mi. Contr. Ho-7-A, Howard Co., from Catalano & Picora Constr. Co., Old Town Natl. Bank Bldg., Baltimore $34,-934 and 2.4 mi. Contr. M-6-A, Montgomery Co., from M. J. Grove Lime Co., Lime Kiln, $16,450. Noted Apr. 8.

Md., Baltimore — Bd. Awards, grading and concrete paving footways as listed in Footway Contr. 91, from P. Lavezza, 911 Eastern Ave., $27,249. Noted Apr. 8.

Md., Baltimore—Bd. Awards, sheet asphalt paving 26,000 sq.yd. Contr. 326, from P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio Ry. tracks $96,736, and 12,860 sq.yd. Contr. 328, from Amer. Paving Co., Montebello Ave. $52,085; concrete paving 19,630 sq.yd. Contr. 327, from J. J. Bresnan, Woodland Ave. $54,201; also paving alleys listed in Alley Contr. 119, from J. Lavezza, 911 Eastern Ave., $22,497. Noted Apr. 8.

Louisiana — State Hy. Comn., Baton Rouge, Apr. 13, graveling 5.12 mi. Natchitoches-Boyce Highway, State Project 429-E, Natchitoches Parish, from Hankins Bros., Natchitoches, $41,407. Noted Mar. 18.

Louisiana — State Hy. Comn., Baton Rouge, Apr. 8, graveling 3.17 mi. New Hope-Good Hope Highway, State Project 533, St. Charles Parish, from S. T. Hulse, Destrehan, $9,982; furnishing gravel, from Phoenix Gravel Co., New Orleans, $2.0925 per cu.yd. Noted Apr. 1.

O., Cincinnati — Comrs. Hamilton Co., Apr. 9, tar bound macadam paving 29,400 sq.yd. section road from Cincinnati-Dayton Rd. to Cincinnati-Zanesville Rd., from O. E. Radabaugh, Cornell Ave., Hazelwood, $57,-956. Engrs. est. $70,230. Noted Apr. 1.

O., Cincinnati — Oiling 25 mi. various macadam streets, 500,000 gal. road oil, from J. S. Tobitt & Co., 325 Wyoming Ave., Wyoming, $38,500. Engrs. est. $40,000.

Mich., Adrian—Lenawee Co., paving 2.04 mi. Ogden and Riga Twp. Rd., 3.26 mi. Wellsville East, and 4.37 mi. Manitou Beach through Geneva, from L. Martine, La Porte, Ind.; waterbound macadam $138,809, and bituminous macadam $160,823.

Mich., Mt. Clemens—Macomb Co., Apr. 6, concrete paving 6.549 mi. A. D. Rd. 89 and 2.2 mi. A. D. Rd. 99, from J. A. McKay & Son, 150 Burlingame Ave., Detroit, $182,729 and $65,324 respectively; also 2.4 mi. A. D. Rd. 86, from T. E. Currie Co., 909 Free Press Bldg., Detroit, $63,424, all 20 ft. wide. Noted Apr. 8.

Wis., West Allis—A. L. Wichner, supt. Pub. Wks., Apr. 12, from McGucken & Vender Heyden, 314 Fowler St., Milwaukee, improving 22 streets, 26,742 cu.yd. cutting at $0.50 per cu.yd., 72,700 sq.yd. paving, rein.-con. $2 per sq.yd. and vibrolithic concrete $2.10, etc. Noted Apr. 8.

Ia., Marquoketa — Jackson Co. Mar. 31, grading 11.791 mi. Marquoketa Jones Co. line Rd., from E. Sask, Cedar Rapids, at $0.255 per cu.yd. for earth, $0.75 for loose and $1.40 for solid rock excav. Engrs. est. $80,000. Noted Mar. 25.

Ark., Little Rock—Grading, curbing and paving streets in Annex 1, Paving Dist. 356, from M. D. L. Cook, 616-17 Home Life Bldg., warrenite, $42,070; from McEachin & McEachin, 713 Home Life Bldg., concrete, $48,284; from D. C. Horton, Ft. Smith, vibrolithic, $43,516; sheet from Southern Material & Constr. Co., Ft. Ashley St., asphalt or concrete, $41,431. Noted Mar. 18.

Colorado—State Hy. Dept., Denver, Apr. 8, paving with **(a)** topeka on concrete **(b)** coarse graded topeka on concrete **(c)** warrenite bitulithic on concrete **(d)** coarse graded type on blank base **(e)** black base **(f)** concrete **(1)** 6.662 mi. Federal Aid Project 2 R, Constr. Div. 4, Las Animas Co. **(2)** 0.263 mi. State Project 904-B, Arapahoe Co. **(3)** 0.3229 mi. Federal Aid Project 272-C, Pueblo Co. **(4)** 7.565 mi. Federal Aid Project 287-B, Weld Co. **(5)** timber bridge and graded approaches on State Project 569, Arapahoe Co. **(6)** paving approaches to bridge on Federal Aid Project 169-R and 290-B, Bent Co., from J. F. Roberts Constr. Co., Tramway Bldg., Denver, **(a1)** $342,734; from Strange & McGuire, Box 622, Pueblo **(b1)** $301,484, **(3)** $10,243; from Stamey-Mackey, Hutchinson, Kan., **(c1)** $360,910 **(d1)** $397,417 **(e1)** $414,792; from J. L. Busselle, 203 Swope Ave., Colorado Springs, **(2)** $7,372; from A. R. Mackey, Sterling **(f4)** $115,730 **(5)** $13,202; and from F. C. Dreher, 1634 Madison St., Denver **(6)** $23,-033. Noted Apr. 1.

Colo., Denver—Asphaltic concrete paving 12 blocks, Capitol Hill Paving Dist. 32, from Western Paving Constr. Co., 5230 Washington St., $60,145; Capitol Hill Paving Dist. 6, from Allied Contg., Inc., 411 Majestic Bldg., $43,603; and Country Club Paving Dist. 1, from New Mexico Constr. Corp., Box 1707, Denver, $54,343.

Wash., Seattle—Bd. Pub. Wks., Apr. 2, paving 14th Ave. S., from J. B. Covello, 1510 16th Ave. S. **(a)** $169,077, engrs. est. $177,340 and **(b)** $169,827, engrs. est. $178,840.

Calif., Chico — From Chico Contg. Co., Chico, improving 6th and 7th Sts., etc., 846,422 sq.ft. grading at $0.01 per sq.ft., and 838,916 sq.ft. 1½ in. asphaltic concrete surfacing $0.16, etc., total $173,040.

Calif., San Mateo—E. W. Foster, city clk., Apr. 5, from Hanrahan Co., Standard Oil Bldg., San Francisco, improving El Camino Real, 118,000 ft. concrete paving at $0.256 per ft., 118,000 ft. grading $0.02, etc., total $38,435. Noted Mar. 25.

Contracts Awarded

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, sheet asphalt repaving Utica Ave., etc., and in various streets damaged by subsurface work, to Uvalde Asphalt Paving Co., 1 Bway., New York City, $24,689 and $15,750 respectively, granite repaving Myrtle Ave., and Washington St., etc., to Leonard Paving Co., 233 Bway., $122,121; asphalt resurfacing by heater method various streets, to Cranford Co., 52 9th St., $195,574; and asphalt repaving Pierrepont St., to Sicilian Asphalt Paving Co., 41 Park Row, New York City, $2,396. Grand total $360,530. Noted Apr. 15.

N. Y., New York—W. J. Flynn, acting pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to Asphalt Constr. Co., 208 Bway., granite block paving St. Ann's Ave. $161,806, St. Ann's Ave., Rae St., etc., $99,-716, East 163rd St. $108,203, Bergen Ave. $30,028, and Kingsbridge Rd. $95,424, to J. Meehan & Son, 90 West St., Odgen Ave. $131,041, and to St. George Paving Co., 90 West St., East 149th St. $33,786; also to Burnside Contg. Co., 270 Burnside Ave., asphalt block repaving East 167th St., $48,-715. Grand total $708,719. Noted Apr. 15.

New Jersey — Road Com. Salem Co., Court House, Salem, bituminous macadam paving 37,336 sq.yd. Salem-Hancock's Bridge Rd., to Fox King Co., Audubon, $93,326. Noted Mar. 18.

New Jersey—State Hy. Comn., Trenton, grading and rein.-con. paving Route 2, Sect. 9, Pensauken Creek to Union Schoolhouse Rd., Camden Co., to W. Eisenberg, Smith-Austermuhl Blk., Camden, $106,134. Noted Apr. 15.

N. J., Mt. Ephraim—Twp. Com., sidewalks and street improvements in Munnemede Manor, to Hill Constr. Co., Mt. Holly, $83,287.

N. J., North Bergen (Ind. br. Weehawken)—North Bergen Twp. Com., Township Hall, improving 3rd Ave. from Hudson Blvd. and Main St. to 36th St., to Clinton Asphalt Co., Union City, $306,842.

N. J., Trenton — Hamilton Twp. Com., W. R. Hart, clk., 10,000 gal. bituminous oil dressing on Bear Swamp Rd., to T. Tobish, Mechanic Bldg., at $0.164 per gal.

Pennsylvania—State Hy. Comn., Harrisburg, **(R. means Route and A. means Application)**, rein.-con. paving, etc. 8,972 sq.yd. R. 118, Sect. 5, Westmoreland Co., to W. H. Nicely Constr. Co., Ligonier, $39,820; 8,876 sq.yd. A. 3582, Lebanon Co., to Davis & Andrew, 520 Central Trust Bldg., Altoona, $34,813; and 50,166 sq.yd. R. 356, Bedford Co., to C. Winters Constr. Co., Butler, $227,486. Grand total $302,119. Noted Apr. 1.

Pa., Pittsburgh—Allegheny Co., rein.-con. paving 11,405 ft. Fleming Park Rd., Contr. 2, Stowe and Kennedy Twps., to Booth & Flinn, Ltd., 461 8th Ave., New York City, N. Y., $396,133. Engrs. est. $600,000.

Pa., Waynesburg — Comrs. Greene Co., concrete 1⅞ mi. Spraggs Rd., 16 ft., to E. E. Morris, Waynesburg, $76,191.

Md., Baltimore—Bd. Awards, sheet asphalt paving 12,530 sq.yd. Contr. 323, to P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio Ry. $61,140, and 10,900 sq.

Streets and Roads (Continued)

yd. Contr. 324, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $52,391; also concrete paving 5,570 sq.yd. Contr. 325, to Arundel Constr. Co., Knickerbocker Bldg., $15,993. Grand total $129,524. Noted Apr. 15.

Md., Baltimore — Bd. Awards, concrete paving 13,450 sq.yd. Contr. 320, to Aiello Contg. Co., 4th and Gough Sts., $36,806; sheet asphalt paving 22,000 sq.yd. Contr. 322, to Amer. Paving Co., Montebello Ave. $103,203, and 11,740 sq.yd. Contr. 321, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $56,792. Grand total $196,801. Noted Apr. 8.

Md., Baltimore—Concrete paving alleys listed in Contr. 118, to Arundel Constr. Co., Knickerbocker Bldg., $39,631; concrete footways as listed in Contr. 83, to A. Apicella, 2907 McElderry St., $26,000.

Md., Towson — Baltimore Co., 1.05 mi. concrete road in Group 4, Mace and Chesaco Aves., to P. Reddington & Sons, 2 East Lexington St., Baltimore, $26,271. Noted Apr. 15.

W. Va., New Martinsville—Wetzel Co., grading 2 mi. New Martinsville-Wileyville State Rd., to W. F. Allen & Co., Clarksburg, $25,822.

Georgia — State Hy. Dept., East Point, **(F. A. P. means Federal Aid Project and S. A. P. means State Aid Project)**, sand clay surfacing 1.82 mi. Milledgeville-Irwinton Rd., F. A. P. 349-A, Baldwin Co., and chert surfacing 0.613 mi. Dalton-Ringold Rd., S. A. P. 394-A, Whitfield Co., to J. R. & J. B. Miller, Baconton, $34,721 and $13,368 respectively; sand clay surfacing 2.4 mi. Peterson-Offerman Rd., also 2 bridges, on F. A. P. 339, Pierce Co., to Gibson Constr. Co., Savannah, $34,721; gravel surfacing 6.7 mi. Tipton-Valdosta Rd., F. A. P. 90-B, Cook Co., and 9.943 mi. Brunswick-Jessup Rd., S. A. P. S-11-4, Glynn Co., to J. C. Gwinn, Hamilton Sta., Birmingham, Ala., $90,064 and $106,038 respectively; concrete surfacing 9.228 mi. Atlanta-Macon Rd., F. A. P. 1-D, Lamar Co., to Whitley Constr. Co., La Grange, $214,657, 12.255 mi. Atlanta-Macon Rd., F. A. P. 396 and 306-B, Lamar and Monroe Counties, to Davis Constr. Co., Walton Bldg., Atlanta, $208,364, and 15.98 mi. Augusta-Wrens Rd., F. A. P. 370-A and 250, Richmond Co., to O. Lawrence, Augusta, $401,734; double surface treating 2.75 mi. Savannah-South Carolina Rd., F. A. P. 318 and 286, Chatham Co., to Dixie Contg. Co., 793 East St. Julian St., Savannah, $11,020; penetration macadam surfacing 1.807 mi. Cornelia-Baldwin Rd., F. A. P. 320, Habersham Co., to C. W. Lyle, Blairsville, $39,962. Noted Mar. 12 and Apr. 15.

Ala., Birmingham — City Comn., **(e. e. means engineers estimate)**, grading and asphalt paving 2 blocks 3rd Ave. and 70th St., also grading and macadam paving 3 blocks 37th St., both 40 ft., to Cooper & Taylor, Amer. Trust Bldg., $5,476 and $5,367 respectively, e. e. $6,500 and $5,500 respectively; asphalt on concrete paving 5 blocks 24th St. and Huntsville Rd., 40 and 50 ft., to Southern Roads Co., 104 North 17th St., $31,748 e. e. $32,000, and 2 blocks 3rd Ave. S. and 5th Ave. S., 60 ft., to Independent Paving Co., Amer. Trust Bldg., $12,751 e. e. $13,300; asphalt paving 7 blocks 7th Ave. S., 50 ft., to Dunn Constr. Co., Lincoln Life Bldg., $37,408 e. e. $38,-250, 3 blocks 11th St., to H. N. Bowdry, Alabama Power Co. Bldg., $24,134 e. e. $25,200, 1 block 10th Court, 50 ft., and concrete sidewalks on 1 block 36th Pl., 4 ft., to A. T. Mehaffey, 7836 Underwood Ave., $2,028 and $1,001 respectively, e. e. $2,250 and $1,200 respectively, 1 block 9th Ave. S., 4 ft., to P. Richter, 1805 Pearson Ave., $780 e. e. $850. Grand total $120,693. Noted Feb. 4 and 18.

Miss., Booneville—Grading, curbing, guttering, sidewalks, sewers and paving 16,100 sq.yd. various streets, to Hogan Constr. Co., Exch. Bldg., Memphis, Tenn.; 14,000 ft. cable, 89 ornamental posts, etc., for White Way lighting system, to Floyd Electric Co., Martin Bldg., Birmingham, Ala. Noted Feb. 25.

La., Monroe—City Council, grading, curbing and sheet asphalt on asphaltic concrete paving 11 blocks various streets, to J. J. Hamiter, 337 Washington St., Shreveport, $20,955. Noted Feb. 18.

Tenn., Johnson City — Bd. City Comrs., Municipal Bldg., 6 in. concrete paving various streets, to Humbard Constr. Co., Empire Bldg., Knoxville, approximately $100,000. Noted Mar. 4.

O., St. Clairsville—Comrs. Belmont Co., concrete paving 2 mi. Belmont-Lamira Rd., 16 ft., to Miller & Pletcher, St. Clairsville, $72,540.

Michigan — State Hy. Dept. at office Comrs. Clinton Co., St. Johns, graveling 3½ mi. A. D. Rd. 21, to J. E. Van Dyne, Clare, Mich., $32,012. Noted Mar. 18.

Mich., Allegan—Allegan Co., graveling 5 mi. A. D. Rd. 11, 12 ft., to Armintrout Constr. Co., Pullman, $45,903. Noted Mar. 25 under "Michigan."

Mich., Flint—Genesse Co., graveling 1.348 mi. Belsay Rd., and 1 mi. Irish Rd. and 1.348 mi. Belsay Rd., to G. B. Sculley, Goodrich $19,104, 1.243 mi. Richfield Rd., to Hallhan & Larkin, Flint $9,424, and 3.341 mi. Miller Rd., to A. Jeffrys, 1882 Madison Ave., Saginaw, $98,301; and concrete paving 6.486 mi. Flushing Rd., to H. C. Nelson, Muskegon, $203,330. Grand total $231,858.

Mich., Jackson — Jackson Co., grading, etc., 5 mi. Hanover Rd., to H. A. Drake & Son, Battle Creek, $22,079, 3.4 mi. Waterloo Rd., to A. J. LaPorte, Jackson, $8,959; also graveling 3.39 mi. Henrietta Twp. Rd., to W. E. Bowler, Clare, $19,921. Grand total $50,959.

Ill., Chicago — South Park Comrs., 57th St., and College Ave., paving Grant Park and Lake Front extension, to Amer. Asphalt Paving Co., 133 West Washington St., $93,342; repairing asphalt pavements of South Park system to R. F. Conway Co., 844 Rush St., approximately $250,000; resurfacing, etc. Soldiers Field, to T. M. White Co., 2828 Harding St., $25,000. Grand total $368,324. Noted Feb. 25.

Ill., Decatur — Grading, curbing and asphalt paving 7 blocks East Eldorado St., 40 ft., to Birt & Driscoll, Decatur, $53,740. Engrs. est. $49,237. Noted Apr. 15.

Wisconsin — State Hy. Comn., Madison, concrete paving, etc. 127,149 sq.yd. Menomonie-Eau Claire Rd., Federal Aid Project 381-A and B, Dunn and Chippewa Counties, to P. C. Kroeck, 1,000 Humboldt Ave., Milwaukee, $297,231; and 653 sq.yd. Elk Mound-Eau Claire Rd., Federal Aid Project 381-C, Eau Claire Co., to Cast Stone Constr. Co., Eau Claire, $158,357.

Wisconsin—State Hy. Dept., at Div. Office 4, Citizens Natl. Bank Bldg., Wisconsin Rapids, grading and graveling, etc., 6.25 mi. New Lisbon-Sparta Rd., Job 4937, Juneau Co., to Nelson, Mullen & Nelson, 355 Temple Court Bldg., Minneapolis, Minn., $49,619; and 4.06 mi. Kilbourn-Wisconsin Rapids Rd., Federal Aid Project 394-B, Wood Co., to A. Mews, Auburndale, $45,-509. Noted Mar. 18.

Wisconsin—State Hy. Dept., at Office 4, Citizens Natl. Bank Bldg., Wisconsin Rapids, grading, concrete paving, etc., 38,-501 sq.yd. Federal Aid Project 442-A and B, Waupaca Co., to Morris Martin Co., Berlin, $94,786. Noted Mar. 25.

Wis., Beloit—Bd. Pub. Wks., Type "B" rein.-con. paving various streets, to Western Asphalt Corp., Sioux City, Ia., $130,220. Noted Apr. 8.

Wis., Racine—H. A. Nelson, comr. Pub. Wks., to Western Impvt. Co., 840 9th St., improving 7 streets, 46,907 sq.yd. concrete paving at $2.58 per sq.yd., 11,747 ft. curbing and guttering $0.90, and 11,747 ft. concrete guttering $0.70; and to J. B. McCarthy, 1301 Maryland Ave., Milwaukee, improving 5 streets, 9,107 ft. concrete curbing and guttering at $0.855, and guttering alone $0.43. Noted Apr. 1.

Wis., Shorewood (Milwaukee P. O.) — T. B. Olson, village clk., concrete paving, etc. 21,000 sq.yd. various streets, to Kroening Constr. Co., 39th Ave. and Mitchell St., Milwaukee, $66,246; and 38,-500 sq.yd. concrete sidewalks on various streets, to E. C. Borst, Port Washington, $8,002. Noted Apr. 1.

Wis., Tomahawk — H. G. Bell, city clk., vibrolithic concrete paving 37,060 sq.yd. 5th St., Tomahawk and Wisconsin Aves., to C. Lotz, 1016 Grand Ave., Wausau, $69,314. Noted Apr. 1.

Wis., Wauwatosa — Bd. Pub. Wks., A. Brigham, secy., rein.-con. paving 30,700 ft. North Ave., to Jacobus & Winding Constr. Co., 1 State St., $78,053. Noted Apr. 15.

Wis., West Bend—H. W. Vroman, div. engr., at Office 2, 444 Milwaukee St., Milwaukee, concrete paving, etc. 49,787 sq.yd. South Germantown-West Bend Rd., to Simpson-Parker Co., 318 East Franklin St., Appleton, $141,281. Noted Apr. 1.

Wis., Whitefish Bay—Concrete paving, etc., 13,400 sq.yd. Washington St., to P. C. Kroeck, 749 Maryland Ave., Milwaukee, $33,192.

Iowa—State Hy. Dept., Ames **(F. A. P. means Federal Aid Project and P. R. P. means Primary Road Project)**, gravel surfacing 9.194 mi. Boxholm Rd., P. R. P. 30, Boone Co., and 14.585 mi. Junction-Polk Co. line Rd., F. A. P. 11 and F. A. P. 265, to H. F. Haden, Bennington, Neb., $13,515 and $48,044 respectively, 8.563 mi. Oelwein-Bremer Co. line Rd., P. R. P. 10 and F. A. P. 164, Fayette Co., to W. R. Garland, New Hampton, $10,262, 5.021 mi. New Hampton-Floyd Co. line Rd., P. R. P. 19, F. A. P. 76 and 160, Chickasaw Co., to C. R. Thompson, Shell Rock, $5,696, 11.381 mi. Manly Rd., P. R. P. 9 and F. A. P. 268-A, also ½ mi. in town of Manly, and 5.42 mi. Northwood-Lake Mills Rd., P. R. P. 195 and F. A. P. 216, Worth Co., to L. C. Kimball, Clear Lake, $10,579 and $6,[illegible] respectively; grading 5.689 mi. Austinville Rd., P. R. P. 5 and F. A. P. 274-A and B, Butler Co., to S. Caldwell, Omaha, Neb., $15,154, 4.575 mi. Chariton Rd., P. R. P. 8, F. A. P. 63, Lucas Co., to J. H. Miller, Monroe, $27,287, 4.592 mi. Loveland-Harrison Co. line Rd., P. R. P. 6, F. A. P. 280-A, Pottawattamie Co., to E. J. Wilson, Omaha, Neb., $20,971, 0.419 mi. P. R. P. 1, F. A. P. 265, Warren Co., to J. Stark & Co., Des Moines, $5,523, and 0.5 mi. road at State Juvenile Home, at Toledo, State Project 10, to Harris & McCoy, Tama, $1,846. Grand total $165,233. Noted Apr. 1.

Ia., Anamosa—Jones Co., to Lamoreaux Bros., Peters Trust Bldg., Omaha, Neb., grading 7.112 mi. road north and south of Olin, 133,830 cu.yd. excav. at $0.27 per cu.yd., 1,075 cu.yd. solid rock excav. $2, and 922 cu.yd. loose rock excav. $1. Noted Mar. 25.

Ia., Cedar Rapids — Grading, curbing, guttering and 7 in. concrete paving 6,472 sq.yd. Bowling St., to Hahn Constr. Co., 12th Ave. and South 10th St., $22,571. Noted Mar. 4.

Ia., Cedar Rapids—For 2 in. asphaltic concrete resurfacing 30,200 sq.yd. various streets, to Ford Paving Co., 210 2nd Ave., $41,035. Noted Mar. 18.

Ia., Des Moines—Brick on present concrete asphalt filler resurfacing 25,397 sq.yd. various streets, to Wright Constr. Co., 211 Flynn Blk., $48,000.

Ia., Dubuque — Auditor Dubuque Co., gravel surfacing 22.825 mi. Cascade-Dubuque Rd., 11 mi., to Uhlrich-Paley Co., Dubuque, $31,000; and balance, to Inter-State Constr. Co., Swea City, $32,000. Noted Mar. 25.

Ia., Logan — Harrison Co., grading Federal Aid Project 138, 329, 607 cu.yd. excav., 210,170 sta.yd. overhaul, etc., to G. W. Condon, 514 Federal Reserve Bldg., Omaha, Neb., $48,000. Noted Mar. 25.

Ia., New Sharon—Grading, curbing and asphaltic concrete paving 11 blocks various streets, to Western Asphalt Paving Co., 1st and Nebraska Sts., Sioux City, at $2.04 per sq.yd. Noted Feb. 4.

Ia., Pleasantville—Grading, curbing and 2½ in. brick on concrete paving 6,000 sq.yd. streets in business district, to Amedeo Paving Co., 1420 Woodland St., Des Moines. Noted Sept. 17.

Ia., Rockwell City—Auditor Calhoun Co., gravel surfacing 17 mi. various roads, to A. R. Eno, Havelock. Noted Mar. 25.

Ia., Waukon — Allamakee Co., crushed stone surfacing, etc. 13,979 cu.yd. Federal Aid Project 170, to G. E. Sargent Co., Hampton, $29,883.

Minn., St. Paul—A. E. Eggert, city purch. agt., concrete paving Hamline Ave. between Hewitt and University Aves., and oil asphalt paving Burr St. between Collins and Jenks Sts., to Hanlon & Okes, 1501 Merchants Natl. Bank Bldg., $32,642 and $37,-643 respectively. Noted Apr. 15.

Minn., Winona — G. W. Hofmann, city recdr., brick on concrete paving, etc. 12 blocks various streets, to Hanlon & Okes, 1501 Merchants Bank Bldg., St. Paul, $41,-000.

Kan., Herington—For 3 in. vertical fibre brick on 5 in. concrete paving and highway section on East Trapp St., to Tripp, Geiger & Rutherford, Herington $44,463. Noted Feb. 4.

Kan., Hoxie—Sheridan Co., grading, etc., 2.424 mi. Federal Aid Project 318-A, to E. M. King, Hill City, $11,260; culverts to Northwestern Constr. Co., Hoxie, $4,944; and bridges, to C. Beardsley, Lebanon, $17,-271. Grand total $33,575. Noted Mar. 11.

Kan., Independence — Montgomery Co. will surface with bituminous macadam 1.191 mi. Havana-Niotaze Rd., 18 ft., by day labor. H. K. Hibbard, Independence, engr. Noted Mar. 4.

Kan., Iola—Iola Co., concrete surfacing, etc., 4.036 mi. Federal Aid Project 328-A, also bridges on same road, to Thogmartin & Sons, Ft. Scott, $115,197 and $4,702 respectively. Noted Mar. 4.

Kan., Larned—Clerk Pawnee Co., sand clay surfacing 7.918 mi. Federal Aid Project 295-A, to J. W. Gaston, Larned, $34,109; culverts on same road, to Shuss & Henderson, Larned, $7,852. Noted Mar. 4.

Kan., Newton—Harvey Co., grading and concrete paving 42,800 sq.yd. Federal Aid Project 329-A, to Luttjohann Bros. & Phillips, Topeka, $103,784. Noted Mar. 18.

Kan., Oskaloosa—Jefferson Co., concrete paving 6.948 mi. Federal Aid Project 227-A, and 0.506 mi. Federal Aid Project 229-A, to Amer. Paving Corp., 1325 Grace St., Omaha, Neb., $171,603 and $13,903 respectively. Noted Mar. 4.

Kan., Ottawa — Franklin Co., to A. L. Cook, Ottawa, grading 5.057 mi. Federal Aid Project 280-C $21,506, 5.891 mi. Sect. D same project $9,610, and 9.316 mi. Sects.

Streets and Roads (Continued)

D and E, Federal Aid Project 289 $60,121; to Silven Constr. Co., Osage, culverts on Sect. C, Federal Aid Project 280 $6,941, on Sect. D same project $8,121, on Sects. D and E, Federal Aid Project 289 $14,917; to Tucker & Lewis, Ottawa, bridges on Sect. C, Federal Aid Project 280 $2,019. Grand total $123,235. Noted Mar. 4.

Nebraska—Dept. Pub. Wks., State House, Lincoln, **(F. A. P. means Federal Aid Project)**, to E. Bowker, Kearney, 2 in. gravel surfacing 2.7 mi. Minden-Newark Rd., F. A. P. 196, Kearney Co. $3,502, and 0.8 mi. same road, F. A. P. 283-A, $721, to Yant Constr. Co., 905 Omaha Natl. Bank Bldg., Omaha, 0.521 mi. Orleans-Oxford Rd., F. A. P. 240A, $1,312, 3.4 mi. Alma-Orleans Rd., F. A. P. 71, $6,614, 3 mi. same road, F. A. P. 71-D $5,565, all in Harlan Co.; to E. W. Kolterman, 1805 Dodge St., Omaha, grading 13 mi. Ravenna-Grand Island Rd., F. A. P. 276-B, Buffalo Co. $17,754, 7.4 mi. Doane-Parks Rd., F. A. P. 74-A, Dundy Co. $14,686, to A. C. Lund, Kearney, 21.6 mi. D. L. D., F. A. P. 7-C, Adams Co. $38,643, to Dundy County, Beneckleman, 1.5 mi. Max-Doane Rd., F. A. P. 41-B, Dundy Co. $2,835, to Stevens Bros., St. Paul, Minn., 7.4 mi. Doane-Parks Rd., F. A. P. 74-A, Dundy Co., $12,427; to Koehler Lumber & Coal Co., Sterling, 3 in. gravel surfacing 10 mi. Hebron-Nelson Rd., F. A. P. 164-B, $29,174, and 4 mi. same road F. A. P. 164-C, $11,793, both in Nuckolls Co., to Allied Contractors, Inc., 1803 Douglas St., Omaha, 0.5 mi. Kearney-Pleasanton Rd., F. A. P. 73-B, Buffalo Co. $896, 13 mi. Ravenna-Grand Island Rd., F. A. P. 276-B, $36,866, corrugated culverts on same road $3,616, and constructing willow mattress, Niobrara Bridge, on F. A. P. 280-B, Knox Co., $4,792; to Artificial Stone Co., Bruning, guard rail on Ravenna-Grand Island Rd., F. A. P. 276-B, $2,614, on 2.7 mi. Niobrara-Monawi Rd., F. A. P. 280-C, Boyd Co. $2,433, and concrete culverts on 6.2 mi. Ord-Arcadia Rd., F. A. P. 193-B, Valley Co., $6,776; to R. Cuming, Kearney, grading 0.8 mi. Kearney-Newark Rd., F. A. P. 283-A, Kearney Co. $2,740, to Paterson, Shirley & Gunther, 1411 W. O. W. Bldg., Omaha, 13.6 mi. Bartlett-Spalding Rd., F. A. P. 59-A, Wheeler Co., $62,488; and to Bump Constr. Co., Prairie View, Kan., grading, and corrugated culverts on 1.5 mi. Max-Doane Rd., F. A. P. 41-B, Dundy Co., $19,974. Grand total $288,221. Noted Feb. 4.

Nebraska—State Hy. Dept., Lincoln, **(F. A. P. means Federal Aid Project)**, to Yant Constr. Co., 905 Omaha Natl. Bank Bldg., Omaha, 3 in. gravel surfacing, etc., 11.2 mi. road from Blair north, F. A. P. 23, Washington Co. $29,246, 0.7 mi. Greenwood Rd., F. A. P. 107-E, $2,199, 3.7 mi. Auburn-Johnson Rd., F. A. P. 116-A, Nemaha Co. $9,282, 2 mi. road from Eagle west, F. A. P. 133-C, $5,243, and 6.5 mi. Eagle-Elmwood Rd., F. A. P. 153-A, $17,206, all foregoing Cass Co., to Dobson & Robinson, Lincoln, 12 mi. Homer-Walthill Rd., F. A. P. 49-C, Thurston Co. $30,463, to Allied Constr. Co., Inc., 1803 Douglas St., Omaha, 3 mi. Milford-Dorchester Rd., F. A. P. 55-A and B, $8,781, 5 mi. Friend-Exeter Rd., F. A. P. 55-C, $15,219, all in Saline Co., 0.1 mi. Pawnee City Rd., F. A. P. 97-B, Pawnee Co. $2,920, and to Abel Constr. Co., 318 Terminal Bldg., Lincoln, 9.7 mi. Syracuse-Palmyra Rd., F. A. P. 133-F, Otoe Co. $32,-164, to Central Bridge & Constr. Co., Wahoo, grading, 2 in. gravel surfacing, etc., 1 mi. Ceresco-Cutoff Rd., F. A. P. 27-C, Sanders Co. $12,214, and 8.2 mi. Wahoo-Yutan Rd., F. A. P. 235-C, Saunders Co. $48,590; to Peterson, Shirley & Gunther, 1411 W. O. W. Bldg., Omaha, grading, 6.7 mi. Yankton Bridge-Fordyce Rd., F. A. P. 72-C, Cedar Co. $25,029, to J. W. Wachtler, 5642 Jones St., Omaha, 9.7 mi. Syracuse-Palmyra Rd., F. A. P. 133-F, Otoe Co. $25,-873, 12.46 mi. Fairbury-Western Rd., F. A. P. 247-A, Jefferson Co. $27,301, and 5.1 mi. Union-Elmwood Rd., F. A. P. 256-A, Cass Co. $17,448, to G. W. Condon, 514 Federal Reserve Bank Bldg., Omaha, 8.4 mi. Milford-Dorchester Rd., F. A. P. 134-B, Seward Co. $18,322, and to D. C. Condon, 5412 Florence Blvd., Omaha, 12.9 mi. Fremont-Hooper Rd., F. A. P. 263-B, Dodge Co., $16,233; to Thiesen Bros. & Estel, Osmond, grading 14.7 mi. F. A. P. 268-A, Pierce Co. $27,917, and 7.5 mi. F. A. P. 270-A, Dixon Co. $23,443; to Metz Constr. Co., Springfield, guard rail on 8.4 Milford-Dorchester Rd., F. A. P. 134-B, Seward Co. $2,714, 12.46 mi. Fairbury-Western Rd., F. A. P. 247-A, Jefferson Co. $4,434, 12.9 mi. Fremont-Hooper Rd., F. A. P. 263-B, Dodge Co. $3,013, culverts and guard rail 9.7 mi. Syracuse-Palmyra Rd., F. A. P. 133-F, Otoe Co. $10,008, and culverts on 7.5 mi. Waterbury-Allen Rd., F. A. P. 270-A, Dixon Co. $16,850, and 5.1 mi. Union-Elmwood Rd., F. A. P. 256-A, Cass Co. $6,386; to Interstate Constr. Co., Fairbury, bridges and corrugated culverts on 12.46 mi. Fairbury-Western Rd., F. A. P. 247-A, Jefferson Co. $10,154, and 11.9 mi. Chester-Hebron Rd., F. A. P. 241-A, Thayer Co. $6,391, also bridge on same road $5,535; to Standard Bridge Co., 1302 City Natl. Bank Bldg., Omaha, 1 bridge on F. A. P. 134-B, Seward Co. $4,350, 3 bridges on F. A. P. 263-B, Dodge Co. $14,875, and 2 on F. A. P. 270-A, Dixon Co. $8,296; to Nebraska Constr. Co., Lincoln, 4 bridges on F. A. P. 268-A, Pierce Co. $14,202. Grand total $515,106. Noted Feb. 4.

Neb., McCook—Warrenite bitulithic paving 55,143 sq.yd. various streets, to Allied Contractors, Inc., 1803 Douglas St., Omaha, at $2.34 per sq.yd.

North Dakota — State Hy. Comn., Bismarck, **(F. A. P. means Federal Aid Project)**, grading and concrete paving 15.026 mi. F.A.P. 288-A, Bottineau Co., to Schultz Bros., Bowbells, $56,737; grading 17.243 mi. F.A.P. 291-A, Benson Co., to Steig & Olson, Esmond, $42,562; grading, graveling, etc. 7.096 mi. F.A.P. 316, McLean Co., to Stanley Bros., St. Cloud, Minn., $21,061; concrete paving same road, to J. J. Rue & Sons, Bismarck $6,547; grading 11.75 mi. F.A.P. 317 McLean Co., to H. J. Hawley, Trail City, S. D., $35,564; and graveling 11.934 mi. F.A.P. 209, Sheridan Co., to Win Coman, Goodrich, $15,086. Grand total $177,557. Noted Mar. 18 and 25.

North Dakota — State Hy. Comn., Bismarck, grading, etc., 42.916 cu.yd. Federal Aid Project 311-B, Towner Co., to J. Coghlan, St. John, $27,000. Noted Mar. 18.

North Dakota—State Hy. Dept., Bismarck, improving Federal Aid Project 288-A, 88,-957 cu.yd. grading, etc., to Schultz Bros., Bowbells, $50,737; and 70,546 cu.yd. State Highway north and south from Westhope to Stevens Bros., 612 Endicott Bldg., St. Paul, Minn., $52,880. Noted Mar. 18.

Mo., Milan — J. T. Moorehead, city clk., City Hall, grading, vibrated concrete paving, etc. 8,040 sq.yd. 3rd St., to Hanibal Constr. Co., Hanibal, $26,229. Noted Mar. 18.

Mo., St. Louis — Grading, curbing, asphaltic concrete paving, etc. streets in Woodland Park Subdivision, to W. H. Smith-Nelson, Cunliff Co., 110 North 7th St. $40,000.

Mo., Unionville—C. B. Calhoun, city clk., City Hall, 6 in. vibrated concrete paving, etc. Grant, 7th, 16th, Main and 17th Sts., to Reed & Wheelock, Clay Center, Kan., $34,023. Noted Mar. 18.

Arkansas — State Hy. Dept., Little Rock, grading and double bituminous surfacing, etc. 55,367 sq.yd. Plumbersville-Springfield Rd., Federal Aid Project 79, to Mobley Constr. Co., Morrilton, $42,970; overhead crossing Missouri Pacific R.R. near Canaan, Federal Aid Project 191-D, Lee Co., to J. F. Mullins, 1818 Chestnut St., Pine Bluff, $10,052. Noted Mar. 25.

Ark., Osceola—Mississippi Co., warrenite on silica surfacing 18 mi. and gravel surfacing 17 mi. various roads in Osceola-Little River Rd. Dist. 1, to Southern Material & Constr. Co., Southern Trust Bldg., Little Rock, $770,000.

Texas — State Hy. Comn., H. Moseley, chn. Austin, double bituminous surface treatment on 8 in. macadam paving 14.23 mi. State Highway 72, Federal Aid Project 373-B, Unit 2, Lavaca Co., 18 ft., to Smith-Boyette Co., Bryan, $270,124. Engrs. est. $290,000. Noted Mar. 25.

Tex., Hereford—For 4 in. rein.-con. paving 40 blocks various streets, to Jordan Constr. Co., Plainview, approximately $53,-000. Noted Mar. 11.

Tex., Houston—Brick paving Harrisburg Blvd. from Preston Ave. Tunnel to Mely St., to Thurber Constr. Co., 401 Zindler Blvd., $67,844.

Tex., Houston—Harris Co., brick paving Harris Blvd. from Preston Ave. Tunnel to Melby St., to Thurber Constr. Co., 401 Zindler Bldg., $67,845. Engrs. est. $70,000.

Tex., Richmond—Fort Bend Co., 1 in. rock asphalt on 6 in. concrete paving 15.14 mi. State Highway 3, Federal Aid Project 326, Unit 2, to M. M. Craven & Son, Missouri City, $455,219. Engrs. est. $480,000.

Tex., San Antonio—Curbing and asphalt paving 10 blocks Buena Vista-Los Moras to Murray Sts., 35 ft., to Uvalde Rock asphalt Co., c/o Frost Natl. Bank Bldg., approximately $50,000; also 10 blocks Buena Vista-between Medina and Los Moras Sts., to Alamo Paving Co., 321 Dawson St., approximately $50,000.

Tex., Tyler—For 2½ in. brick on 4 in. concrete paving 14,718 sq.yd. various streets, to D. B. Taliaferro Constr. Co., Sherman, approximately $3.20 per sq.yd.

Okla., Lawton — Grading and concrete paving 11,000 sq.yd. 11th and 5th Sts., to Connelly Bros. Co., El Reno, $57,118. Engrs. est. $65,117.

Okla., Tulsa—City **(e. e. means engineers estimate)**, grading and concrete paving 24,-116 sq.yd. streets in Impvt. Dist. 700, to Tibbets & Pleasant, 209 North Nogales St., $74,924 e. e. $81,400, 12,850 sq.yd. Dist. 704 and grading and sheet asphalt paving 6,130 sq.yd. Dist. 703, to Standard Paving Co., 1732 East 3rd St., $41,951 and $34,127 respectively, e. e. $42,700 and $36,200 respectively, 9,810 sq.yd. Dist. 701 and 5,640 sq. yd. Dist. 702, to H. L. Cannaday, 1122 South Lewis St., $47,444 and $28,067 respectively, e. e. $49,500 and $30,000 respectively. Grand total $276,513.

Okla., Tulsa—For 7 in. concrete paving 19,881 sq.yd. Paving Dist. 74, to Tibbets & Pleasant, Inc., 229 North Nogales St., $74,930.

Idaho—State Hy. Comn., Boise City, bituminous concrete paving 9.481 mi. Yellowstone Park Highway, Bingham Co., to Gibbons & Reed Co., Kearns Bldg., Salt Lake City, Utah, $153,754.

Washington—State Hy. Comn., Olympia, rein.-con. paving, etc. 7.02 mi. State Rd. 1, Lewis Co., to Norris Bros., Burlington, $169,816; grading, etc. 3.5 mi. same road, to Hendricks & Olsen, Chehalis, $22,974; crushed rock surfacing, etc. 4,500 cu.yd. State Rd. 2, Douglas Co., to Chenault & Wagner, 331 Couch St., Portland, Ore., $7,605, 4,000 cu.yd. State Rd. 2, Grant and Lincoln Counties, to Triangle Constr. Co., 1220 Ide Ave., Spokane, $7,680; crushed gravel surfacing, etc. 4,200 cu.yd. State Rd. 10, Chelan Co., to Cole & Strong, Oroville, $4,830; concrete paving, etc. 49,000 sq.yd. Federal Aid Project 140-B, Walla Walla and Columbia Counties, to Clifton, Applegate & Toole, P. O. Box 162, Spokane, $122,-992; grading, etc. 116,300 cu.yd. State Rd. 3, Walla Walla Co., to H. C. Boyer, Ontario, Ore., $36,850. Grand total $372,747. Noted Mar. 25.

Washington—State Hy. Comn., Olympia **(S. R. means State Road)**, crushed rock surfacing, etc. Federal Aid Project 157-A, S.R. 3 north and south from Dayton, Columbia Co., to Myers & Goulter, 607 Cherry St., Port Angeles, $101,430, 8,000 cu.yd. S.R. 3, Stevens Co., to F. R. Hewett, 2415 Manito Blvd., Spokane $5,120, 8,210 cu.yd. S.R. 8, Klickitat and Yakima Counties, to Triangle Constr., Co., 1220 Ide Ave., Spokane $13,821, 13,000 cu.yd. S.R. 2, east and west from Davenport, and about 5 mi. S.R. 22 north from Davenport, Lincoln Co., to Payne & Doust, 405-406 Lindell Bldg., Spokane, $16,335; crushed gravel surfacing 5,000 cu.yd. S.R. 3, Benton Co., to Campbell Constr. Co., Sunnyside, $10,911; and concrete paving, etc. 60,000 sq.yd. S.R. 3, Benton Co., to J. H. Collins & Co., P. O. Box 56, Couer D'Alene, Idaho, $141,884. Grand total $289,501. Noted Mar. 18.

Wash., Tacoma — City Council, paving South G St. between 38th and 48th Sts., and 48th St. between G St. and Park Ave., to Galluci & Milone, Tacoma, $36,089. Engrs. est. $45,222.

Wash., Tacoma — Grading, gravel surfacing, etc., Portland Ave. L.I.D. 678, to Harrison Bros., 3651 East B St., $27,809.

Wash., Seattle — Improving Juneau St. et al., to F. Arcorace, 8423 48th Ave. S., $26,218. Noted Apr. 8.

Wash., Seattle—Bd. Pub. Wks., grading, etc. 35,000 sq.yd. Alaska St., to J. Otteson Co., 2523 32nd Ave. S., $29,555. Noted Apr. 15.

Oregon—State Hy. Comn., Olympia, grading, etc., 7.3 mi. Point Corvallis Sect. Corvallis-Newport Highway, Benton Co., 20 ft., to State Constr. Co., Albany, $36,439.

California—State Hy. Comn., Sacramento, grading, bituminous macadam paving, etc. at Chalk Hill, Los Angeles Co., to H. A. McCray, 129 West 2nd St., Los Angeles $44,518. Engrs. est. $57,960. Noted Apr. 1.

Calif., Los Angeles—Bd. Pub. Wks., grading, asphalt and concrete paving, etc., Isabel St., to R. Curtis Paving Co., Inc., 2440 East 26th St., $16,856; also sheet asphalt paving, etc., Wilmington Blvd. between S and B Sts., etc., to Thurston & McGovern, $93,229. Noted Apr. 8.

Calif., Los Angeles—Bd. Pub. Wks., grading, 6 and 8 in. concrete paving Radford Ave. between Clybourn and San Fernando Rd., to J. Martin, 789 Lyon St., $26,870. Noted Apr. 8.

Calif., Los Angeles — Los Angeles Co., curbing, guttering, walks and disintegrated granite paving portion of Alameda St., etc., Co. Impvt. 342, to J. M. Shull, Riverside, $35,535. Noted Apr. 8.

Calif., Palo Alto — Grading and paving California, Nevada, Cowper Sts., etc., to Warren Constr. Co., 28th and Poplar Sts., Oakland, $45,905. Noted Apr. 8.

Calif., San Diego—Common Council, concrete curbing, sidewalks, and 1½ in. asphaltic concrete on 4 in. concrete paving 114,912 sq.ft. Louisiana St. between El Cajon and Adams Aves., to G. R. Daley, 4430 Boundary St., $33,689. Noted Apr. 8.

Calif., Santa Monica — City Council, to Kneen Paving Co., Dudley Blk., improving Colorado Ave., 582,283 sq.ft. grading at

Streets and Roads (Continued)

$0.065 per sq.ft., 426,131 sq.ft. Warrenite bitulithic paving $0.199, etc. Noted Apr. 8.

B. C., West Vancouver—Bituminous concrete widening and 5 ft. sidewalks on 3 mi. Marine Dr., to Cotton Co., Ltd., False Creek Yards, Vancouver, $43,000. Noted Feb. 18.

Buildings—Commercial

Proposed Work

N. H., Rochester—STORE, OFFICE and APARTMENT—Rochester Realty Co., c/o Dow, Harlow & Kimball, archts., 184 Boylston St., Boston, Mass., having preliminary plans prepared 3 story and basement, brick and limestone store, office and apartment, incl. lighting plant. To exceed $150,000.

Mass., Arlington (br. Boston)—APARTMENT—Lockeland Apartment Trust, c/o W. A. Muller, 55 Kilby St., Boston, having sketches made by Gay & Proctor, 284 Boylston St., Boston, (2 units) 3 story and basement, brick, Massachusetts Ave. $250,000.

Mass., Boston—APARTMENT—H. F. Esterbrook, 352 Harvard St., Cambridge, having sketches made by G. N. Jacobs, 4 Park St., 9 or 10 story and basement, brick, steel and concrete, 264 Beacon St. To exceed $150,000.

Mass., Boston — FIRE STATION — City, Fire Dept., 60 Bristol St., having revised plans prepared by J. M. Gray, 175 High St., 3 story, brick, limestone and granite, plain foundation, Bway., Shawmut Ave. and Warrenton St. $345,000.

Mass., Boston—OFFICE, etc.—Fort Point Building Trust, c/o M. C. Burton, 1 Federal St., having sketches made by Blackall, Clapp & Whittemore, 31 West St., 13 story, 160 x 235 ft., brick, steel and concrete, office and light manufacturing building, Congress St. and Fort Point Channell. $2,000,000.

Mass., Boston—STORE and OFFICE—Carlin & Cherney, 333 Washington St., Boston, having sketches made by G. N. Jacobs, 4 Park St., 9 story and basement, 60 x 75 ft., brick, concrete and steel, 39-49 Portland St. $200,000.

Mass., Fall River—OFFICE and STORE—M. T. Hudner, 180 South Main St., having plans prepared by E. Marvel, 209 Bedford St., brick and steel, South Main St. $200,000.

Mass., Greenfield—HOSPITAL—Franklin Co. Pub. Hospital, c/o Kendall, Taylor & Co., archts., 142 Berkley St., Boston, having preliminary plans prepared 3 story and basement, brick and stone, plain foundation, High St., here. $150,000 or more.

Mass., Marlboro—STORE and OFFICE—S. A. Singer, 333 Washington St., Boston, having sketches made by F. A. Norcross, 46 Cornhill, Boston, 3 story and basement, brick plain foundation, 175-177 Main St. $165,000.

Conn., Hartford — ADMINISTRATION—Hartford Gas Light Co., E. E. Eysenbach, vice-pres. and genl. mgr. plans brick administration building, on 90 x 92 ft. site, Pearl St. $250,000.

Conn., Meriden — TEMPLE — Masonic Temple, H. Wales Lines, Building Com., having plans prepared by W. Arnold, 34½ West Main St., 3 story, 70 x 100 ft., brick, steel and stone or marble, East Main St. $200,000.

Conn., New Britain—APARTMENT—G. Ratner, 42 Church St., New Haven, plans 3 story, brick and steel, West Main and Vine Sts., here. $150,000. Engineer and architect not selected.

Conn., New Britain—THEATRE—G. Ratner, 42 Church St., New Haven, plans 1 or 2 story, 150 x 180 ft., brick and steel, Broad and Washington Sts., here. $250,000. Engineer and architect not selected.

Conn., New Haven — HOTEL and OFFICE—Syndicate, c/o S. Z. Poli, 24 Church St., having preliminary plans prepared by G. B. Post & Sons, 101 Park Ave., New York City, N. Y., brick, Congress Ave. $350,000.

Conn., Waterbury — COURT HOUSE — New Haven Co. plans election $100,000 bonds, purchase site and construct court house addition, Kendrick Ave. and Leavenworth St. Engineer and architect not selected.

N. Y., Albany—OFFICE—State Dept. having estimates made by S. Jones, Capitol, 21 story, office, Swan St. between Washington and State Sts.

N. Y., Buffalo—THEATRE—Hotel Statler, Delaware Ave., having plans prepared by Warren & Wetmore, engrs. and archts., 16 East 47th St., New York City, 4 story, brick and stone, plain foundation, Delaware Ave. $700,000.

N. Y., Mt. Vernon — APARTMENT — Lerner Store Corp., c/o C. N. Whinston & Bros., engrs. and archts. 2 Columbus Circle, New York City, having plans prepared 4 story, brick, steel and stone, plain foundation, North 4th Ave., here. $150,000.

N. Y., New York — APARTMENT — A. Antini, c/o Moore & Landseidel, engrs. and archts., 148th St. and 3rd Ave., having plans prepared 7 story brick, steel and stone, plain foundation, Westchester Ave. $250,000.

N. Y., New York — APARTMENT — L. Brill & Son, c/o C. S. Clark, engr. and archt., 443 East Tremont Ave., having plans prepared brick, steel and stone, plain foundation, Anthony Ave. $150,000.

N. Y., New York — APARTMENT — J. Axelrod & Son, 234 West 74th St., having plans prepared by G. F. Pelham, Inc., engrs. and archts., 200 West 72nd St., 15 story, 89 x 102 ft., brick, steel and stone, plain foundation, 11 West 65th St. $1,500,000.

N. Y., New York—APARTMENT—Bobmill Holding Co., c/o Bates & Franklin, engrs. and archts., 645 East Tremont Ave., having plans prepared 5 story, brick, steel and stone, plain foundation, Post Ave. $180,000.

N. Y., New York — APARTMENT — Imasto Holding Corp., c/o Bates & Franklin, engrs. and archts., 645 East Tremont Ave., having plans prepared 6 story, brick, steel and stone, plain foundation, 611-619 Academy St. $175,000.

N. Y., New York—LOFT—P. Glickman, c/o Shampan & Shampan, engrs. and archts., 188 Montague St., Brooklyn, having plans prepared 20 story, brick, steel and stone, plain foundation, West 28th St. $1,200,000.

N. Y., New York—LOFT—One Nineteen Fourth Avenue Corp., c/o M. Haefeli, engr. and archt., Grand Central Terminal Bldg., having plans prepared brick, steel and stone, plain foundation, 29th St. and 4th Ave. $1,200,000.

N. Y., New York — OFFICE — F. A. Fitzgerald, c/o Buchman & Kahn, engrs. and archts., 49 West 45th St., having plans prepared 23 story, brick, steel and stone, plain foundation, Bway. and 37th St. $1,900,000.

N. Y., New York — OFFICE — Two Hundred Forty-Seven West 30th St. Realty Co., Inc., c/o G. and E. Blum, engrs. and archts., 505 5th Ave., having plans prepared 16 story, brick, steel and stone, plain foundation, 247 West 30th St. $400,000.

N. Y., Rochester — THEATRE, etc. — Greater Rochester Properties, Inc., Lafayette Bldg., Buffalo, having plans prepared by L. Lempert, Mercantile Bldg., theatre, store and office building, South Clinton and Court Sts. $1,125,000.

N. J., Asbury Park—THEATRE—Walter Reade, 112 West 34th St., New York City, plans rebuilding theatre, Main St., recently destroyed by fire. $1,000,000. Engineer and architect not selected.

N. J., Jersey City—BANK and OFFICE—Labor Bank, c/o J. T. Rowland, engr. and archt., 100 Sip Ave., having plans prepared 14 story, 40 x 90 ft., brick, steel and stone, plain foundation, Enos Pl. and Sip Ave.

N. J., Jersey City—HOSPITAL—Christ Hospital, 176 Palisade Ave., having plans prepared by J. T. Rowland, engr. and archt., 100 Sip Ave., brick, steel and stone addition, plain foundation, Palisade Ave. $500,000.

N. J., Newark—HOTEL, THEATRE and ARENA — Newark Arena & Amusement Corp., c/o J. W. Franklin Co., 80 Wall St., New York City, having plans prepared by Nathan Harris, engr. and archt., 20 Granford Pl., brick, steel and stone, with swimming pool, etc., Market Plaza, here. $5,000,000.

Pa., Phila.—RESTAURANT and OFFICE—Horn & Hardart, 214 South 10th St., having plans prepared by R. Benckert, Bellevue Court Bldg., 3 story, basement and sub-basement, 33 x 130 ft., rein.-con., brick and limestone, plain foundation, 217-19 South Broad St. $200,000.

N. C., Winston-Salem—GARAGE—W. N. Reynolds & R. E. Lassiter, soon take bids 4 story, 160 x 200 ft., rein.-con., North Main St. $300,000.

Fla., Lakeland — OFFICE — Lakeland Real Estate Bd., purchased site and plans 8 story office building. $500,000.

Miss., Pascagoula—HOTEL—J. R. Watts, et al, having plans prepared by Shrouds & Stoner, Gulfport, 7 story hotel.

O., Wooster — HOSPITAL — Wooster College, soon takes bids 2 story and basement hospital, on campus. $150,000.

O., Youngstown — HOSPITAL — City, takes bids about May 1, 4 story and basement, brick and steel addition. $150,000. B. E. Brooke, Youngstown, archt.

Ind., Evansville — HOSPITAL — Bd. Trustees Southern Hospital for Insane having plans prepared by Shopbell, Fowler & Thole, Evansville, for Woodmen Hospital, brick, steel and rein.-con. $3[illegible],000.

Ind., Indianapolis — APARTMENT — Maple Road Development Co., has plans prepared by Pierre & Wright, 113 Hume Mansur Bldg., 3 story and basement, brick and rein.-con., Maple Rd. between Washington Blvd. and New Jersey St. $200,000.

Ind., Lafayette — ARMORY — Indiana Natl. Guard having plans prepared by Harrison & Turnock, 500 Bd. Trade Bldg., Indianapolis, 2 story and basement, 100 x 160 ft., brick and steel armory. $150,000.

Ind., South Bend — HOSPITAL — Comrs. Saint Joseph Co., C. B. Sedwick, arch., had plans prepared by Austin & Shambleau, 111 North Lafayette St., brick and steel hospital. $150,000.

Mich., Birmingham—THEATRE—Bloomfield Center, W. T. Barbour, R. F. D. 3, had plans prepared by J. P. McDonnel, Birmingham, 3 story and part basement, 100 x 200 ft., rein.-con. and brick theatre and community center, Woodward Ave. $150,000.

Mich., Detroit—APARTMENT HOTEL—A. N. Collins, 38 Martin Pl., had plans prepared by J. Kasurin, 502 Empire Bldg., 21 story and basement, rein.-con., brick and steel, plain foundation, Martin Pl., with subway entrance to Woodward Ave. $1,500,000.

Mich., Detroit—CLUB HOUSE—National Town & Country Club, J. K. Watkins, chn., 1301 Ford Bldg., having plans prepared by Smith, Hinchman & Grylls, 800 Marquette Bldg., 17 story and basement, rein.-con., brick and steel, plain foundation, Bagley and 1st Sts. $4,000,000.

Mich., Fordson—THEATRE—Kohner & Payne, 1402 Kresge Bldg., Detroit, take bids about Apr. 24, 4 story and basement, rein.-con., brick and steel, plain foundation, Schaefer Rd., here, for Allan Realty Co. $275,000.

Ill., Chicago — APARTMENT—Koenigsberg & Weisfeld, archts., 155 North Clark St., made plans and soon take bids 6 story and basement, 50 x 150 ft., rein.-con., brick and terra cotta, 5648 Kenmore Ave., for S. Cherman, 4844 Drake Ave. $285,000.

Ill., Chicago — BANK and OFFICE — State Bank of Chicago having preliminary plans prepared by Graham, Anderson, Probst & White, 80 East Jackson Blvd., 22 story, 187½ x 188 ft. bank and office building, 108 South La Salle St.

Ill., Chicago — BANK and OFFICE — Mundie & Jensen, archts., 39 South La Salle St., soon lets contract 2 story and basement, 111 x 120 ft., brick and stone, Central Park, Milwaukee and Oakdale Aves., for 2nd Northwestern State Bank, Central Park, Milwaukee and Oakdale Aves.

Ill., Chicago—CLUB—North West Lyons Club, c/o Shattuck & Layer, Archts., 19 South La Salle St., having plans prepared 4 story and basement, 125 x 134 ft., brick and terra cotta, incl. gymnasium, swimming pool, etc., West North Ave. and Kildare St. $700,000.

Ill., Chicago — FIRE STATION — Voted $1,500,000 bonds, fire stations.

Ill., Chicago—HOTEL—M. Horwitz, 560 West North Ave., purchased 76¼ x 100 x 150 ft. site and plans hotel, Grace St. and Pine Grove Ave. Engineer and architect not selected.

Ill., Chicago—OFFICE and SALES—Gardener & Lindberg, archts., 140 South Dearborn St., preparing plans and take bids about Apr. 19, 3 story and basement, 85 x 110 ft., rein.-con. and brick, 1243-49 West Washington Blvd., for Creamery Package Mfg. Co., 61 West Kinzie St.

Ill., Chicago—OFFICE and STORE—E. Jackson, et al, 608 South Dearborn St., having plans prepared by D. H. Burnham & Co., 160 North La Salle St., 23 and 41 story, 2 sub-basements, 141 x 204 ft., rein.-con., brick, steel and terra cotta, Adams and South Clark Sts. $6,063,466.

Ill., Peoria — COLISEUM — Defeated $1,000,000 bonds, for coliseum. Noted Feb. 4.

Ill., Springfield—BANK and OFFICE—Ridgeley-Farmers State Bank, 5th and Monroe Sts., takes bids about July 1, remodeling and constructing rein.-con., brick and stone addition. $200,000. Weary & Alford Co., 1923 Calumet Ave., Chicago, Ill., archts.

Wisconsin—HOSPITALS—Milwaukee Co. (Milwaukee) c/o W. L. Coffey, mgr. County Institutions, Wauwatosa, having plans prepared by Van Ryn & De Gelleke, 114 Grand Ave., and Armstrong & De Gelleke, associated archts., 122 East 25th St., New York City, N. Y., 568 bed hospital, Grand Ave., Wauwatosa, $1,100,000; and 50 bed dispensary, 25th and Grand Ave., Milwaukee, $500,000. Noted Feb. 25.

Wis., Hurley — HOTEL and STORE — E. S. Hagen, c/o Iron Exch. Bank, plans 3 or 4 story, brick and concrete, plain foundation. $150,000. Engineer and architect not selected.

Buildings—Commercial (Continued)

Wis., Madison — STORE and APARTMENT—Hiles Stores, Inc., 202 State St., plans 2 story and basement, rein.-con., brick and steel store and apartment building. $200,000. Engineer and architect not selected.

Wis., Milwaukee—HOTEL and STORE—O. Brachman, 530 Grand Ave., having preliminary plans prepared by M. Tullgren & Sons, 9 Waverly Pl., 4 story and basement, 102 x 140 ft., brick and concrete, plain foundation, Mitchell St. $500,000.

Wis., Milwaukee — THEATRE—Colonial Amusement Co., 984 Sherman Blvd., having revised plans prepared by Dick & Bauer, 811 State St., 2 story and basement, brick, concrete and terra cotta, 15th and Vliet Sts. $200,000. Noted Jan. 14.

Wis., Richland Center—HOTEL—Lake City Finance Co., c/o P. F. Hunter, Madison, having plans prepared by E. Tough, Washington Bldg., Madison, 4 story and basement, 60 x 150 ft., brick, rein.-con. and steel, here.

Ia., Cedar Rapids—HOTEL—H. B. Beidler, archt., 936 North Michigan Ave., Chicago, Ill., preparing plans and takes bids in May or June, 12 story, rein.-con., brick, steel and terra cotta, 1st Ave., here, for Edith Rockefeller McCormick, c/o Krenn & Doto, 936 North Michigan Ave., Chicago, Ill. $1,250,000.

Mo., Joplin — OFFICE — Empire Dist. Electric Co. takes bids probably in June, 4 story and basement, 50 x 120 ft., rein.-con., brick and stone, 6th and Joplin Sts. Smith & Van Pelt, 819 Frisco Bldg., St. Louis, engr.

Mo., Kansas City—WAREHOUSE—Kellogg-MacKay Co., 21st and Walnut Sts., having plans prepared by J. C. Sunderland, 406 Interstate Bldg., 5 story and basement, 75 x 104 ft., brick and steel warehouse. To exceed $150,000.

Mo., St. Louis—CLUB HOUSE, etc.—See "Unclassified."

Mo., St. Louis—HOSPITAL—Evangelical Deaconess Home and Hospital, 4215 West Belle Pl., F. P. Jens, supt., having preliminary plans prepared by T. P. Barnett Co., Arcade Bldg., 4 and 6 story and basement, rein.-on., brick and stone, Oakland Ave. near Clayton Ave. $500,000.

Mo., St. Louis—OFFICE, etc.—Amer. Pharmaceutical Assn., E. S. Sater, University of Minnesota, making preliminary plans 10 or more story, rein.-con., brick, steel and stone office building, etc. $1,000,000.

Ark., Hot Springs — HOTEL — Majestic Hotel Co., H. A. Jones, mgr., soon takes bids 6 story, brick, stone, steel and rein.-con., Park and Central Aves. $650,000. Sanders & Ginocchio, 203 Hall Bldg., Little Rock, archts.

Ark., Little Rock—HOTEL—W. N. Young Hotel Co., R. Young, vice pres. and secy., takes bids in summer 15 story and basement, brick and rein.-con., Markham and Main Sts. $880,000. Wittenberg & Delony, 408 Home Life Bldg., archt. Noted Sept. 3.

Tex., Beaumont—OFFICE—Gulf Coast Security & Realty Co., c/o J. S. Edwards, secy., having tentative plans prepared 10 story and basement rein.-con., brick and stone, plain foundation, Park and Fannin Sts. $500,000. Private plans.

Tex., Houston — FREIGHT DEPOT and WAREHOUSE — Missouri, Kansas & Texas R.R., F. Ringer, ch. engr. Ry. Exch. Bldg., St. Louis, Mo., having revised plans prepared 6 story, 191 x 280 ft., and 53 x 220 ft. rein.-con. and brick freight depot and warehouse, with 5 track switch tracks, here. $1,000,000. Noted Apr. 15.

Tex., San Benito—HOTEL—San Benito Community Hotel Co., c/o E. Downs, pres. Bd. Directors, takes bids after Apr. 25, 2 or 3 story, 80 x 140 ft., rein.-con., brick, stone and tile, plain foundation, $175,000. H. P. Smith, c/o Natl. Bank of Commerce Bldg., San Antonio, archt. Noted Mar. 25.

Tex., Victoria — HOTEL — Baker Hotel Co., c/o T. B. Baker, Gunter Hotel, San Antonio, having preliminary plans prepared by H. S. Green, c/o Alamo Natl. Bank Bldg., San Antonio, 7 story and basement, rein.-con., brick or tile, plain foundation. $500,000.

Tex., Weslaco—HOTEL—C. A. Sheffield, Dallas, having plans prepared by Stebbins & Waters, Weslaco, 5 story, basement, and roof garden, rein.-con., plain foundation, here. $200,000.

Colo., Denver — HOTEL — P. A. Zang, Park Lane Properties, 320 Amer. Natl. Bank Bldg., having plans prepared by Hooper & Jarnseh, 879 North State St., Chicago, Ill., and opens bids about May 1, 11 story, 1,600,000 cu.ft. floor space, brick, stone and steel, 454 South Marion St. $1,100,000.

Ariz., Yuma — STORE and HOTEL — Molina Estate having preliminary plans prepared by Walker & Eisen, 701 Great Republic Life Bldg., Los Angeles, Calif., 4 story and basement, 100 x 190 ft., brick, Yuma St. $235,000. W. R. Conway, proprietor Barbara Worth Hotel, El Centro, Calif., operates above.

Ore., Portland—APARTMENT HOTEL—C. A. Houghtaling, archt., Gearing Bldg., prepared plans 8 story apartment hotel, 19th St. between Flanders and Glison Sts. $1,400,000. Owner's name withheld.

Ore., Portland — TERMINAL SALES — Mead Estate, having plans prepared by A. E. Doyle, Worcester Bldg., new terminal sales building. $400,000.

Ore., Portland — THEATRE — Famous Players-Lasky Corp., c/o L. Thomas, archt., U. S. Natl. Bank Bldg., having plans prepared 2 story, 200 x 200 ft. theatre, Salmon, Bway., Park and Main Sts. $1,000,000.

Calif., Berkeley — HOSPITAL — Medical Properties Co., c/o F. H. Reimers, archt., Tribune Tower Bldg., Oakland, having plans prepared (1st unit) 5 story and basement, rein.-con. hospital. $450,000.

Calif., Berkeley—STORE—J. F. Hink & Son, Shattuck Ave. and Kittredge St., having plans prepared by J. W. Plachek, Mercantile Bank Bldg., 1 story, rein.-con. addition, Shattuck Ave. and Kittredge St. $150,000.

Calif., Culver City — CLUB HOUSE and THEATRE — Artland Club, Los Angeles, having plans prepared by Allison & Allison, Hibernian Bldg., Los Angeles, club, near here. To exceed $150,000.

Calif., Fresno — LODGE, STORE and CLUB—Fraternal Order of Eagles, having plans prepared by Swartz & Ryland, Rowell Bldg., 3 story and basement, fireproof lodge, store and clubhouse. $150,000.

Calif., Los Angeles — APARTMENT — S. C. Lee, archt., Petroleum Securities Bldg., preparing preliminary plans 6 story and basement, 60 x 130 ft., rein-con., Leeward Ave. $200,000 or more. Owner's name withheld.

Calif., Los Angeles—THEATRE, STORE and OFFICE—L. O. Macloon, had plans prepared by L. A. Smith, Film Exch. Bldg., 3 story, 44 x 120 ft. theatre, and 44 x 144 ft. store and office, 736-46 South Figueroa St. $150,000.

Calif., Oakland — WAREHOUSE — Parr Terminal Co., 1 Drumm St., San Francisco, having plans prepared 1 story, 125 x 450 ft. slow burning-mill or concrete, Parr Terminal. $150,000. Merrill & Co., 1 Drumm St., San Francisco, engrs.

Calif., San Francisco—APARTMENT—T. Donohoe, 396 Hayes St., had plans prepared by J. C. Hladik, Monadnock Bldg., 4 story and basement, rein.-con., Gough and Oak Sts. $150,000.

Calif., San Francisco—APARTMENT—R. J. Stempel, 825 Monadnock Bldg., had plans prepared by J. C. Hladik, Monadnock Bldg., 6 story and basement, rein.-con., Oak and Laguna Sts. $175,000.

Calif., San Francisco—HOTEL—L. Heilmann, c/o Fabre & Hildebrand, archts., 110 Sutter St., had plans prepared 4 story and basement, steel and rein.-con., Jackson and Stockton Sts. $150,000.

Que., Shawinigan Falls—HOSPITAL—City and Provincial Government Quebec, plans hospital, to be operated by Grey Nuns, Montreal. $250,000. J. H. Valiquet, Shawinigan Falls, engr. Archt. not selected.

Ont., Toronto — APARTMENT — S. B. Coon & Son, 4 St. Thomas St., plan 3 or 4 story, 24 suite, rein.-con., brick and steel, plain foundation, Sultan St. $150,000. Private plans.

Ont., Toronto — HOSPITAL—Orthopedic Hospital, H. G. Staunton, pres., 100 Bloor St. W., plans 3 story and basement, rein.-con., brick and steel addition, Bloor St. W. $175,000. Engineer and architect not selected.

Bids Desired

New Hampshire—ARMORIES—Apr. 29, by State, State House, Concord, altering 2 story and basement, 62 x 91 ft. armory at Keene, and 88 x 115 ft. armory at Berlin, both brick and stone. To exceed $150,000. Butterfield-Guertin Co., 801 Beach St., Manchester, archts.

Mass., Boston—HOSPITAL—Apr. 30, by Densmore, LeClear & Robbins, archts., Park Sq. Bldg., 7 story and basement, service and operating building, 3 story and basement power house, and 1 story garage, all brick, stone and steel, for Beth Israel Hospital, Brookline Ave. $1,000,000.

Mass., Boston — STORE and SALESROOM, etc. — Two Hundred Forty-five to Two Hundred Fifty-one Tremont St., Inc., c/o Blackall, Clapp & Whittemore, archts., 20 Beacon St., taking bids 2 story and basement, 80 x 100 ft., brick and stone store, salesroom and bowling alleys, plain foundation, 245-251 Tremont St. To exceed $150,000.

Mass., Dedham—THEATRE, STORE and OFFICE—See "Contracts Awarded."

Mass., Hyannis — HOTEL — See "Contracts Awarded."

Mass., Hyannis—MUNICIPAL—Apr. 26, by Town, C. M. Chase, clk., 2 story and basement, with two 1 story wings, brick and steel town hall. $150,000. J. W. Beal Sons, 185 Devonshire St., Boston, archts.

Mass., Medford (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Peabody—CLUB—Salem Country Club, R. Lawson, chn., taking bids 2 story and basement, brick and stone, Sanders Farm. $150,000. G. Robb, 15 Exchange St., Boston, archt.

Mass., Roxbury (Boston P. O.) — APARTMENT—See "Contracts Awarded."

N. Y., Albany—BANK—Apr. 30, by Home Savings Bank, North Pearl St., brick, steel and stone, plain foundation, North Pearl St. $1,000,000. Dennison & Hirons, 288 Lexington Ave., New York City, engrs. and archts. Noted Feb. 18.

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New Rochelle — BATH HOUSE — May 10, at office Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, bath house, at Glen Islands Park, here, Contr. 58. J. Downer, ch. engr.; adv. E. N.-R. Apr. 22.

N. Y., Yonkers—THEATRE—See "Contracts Awarded."

N. J., Atlantic City — CONVENTION HALL — May 15, by Mayor and City Comrs., 350 x 650 ft., rein.-con., brick and steel, Broadwalk and Mississippi Ave. $5,000,000. Lockwood, Greene & Co., 24 Federal St., Boston, Mass., engrs. and archts. Noted Nov. 19.

N. J., Trenton — FIRE HEADQUARTERS, etc.—Apr. 30, by City Comn., 2 and 4 story fire headquarters, Perry St., $889,500. J. O. Hunt, 219 East Hanover St., archt. Noted Apr. 8.

Pa., Bradford—CLUB—Loyal Order of Moose, Mechanic St., taking bids and opens same about Apr. 22, 3 story and basement, 74 x 84 ft., brick and stone, Pine St. $150,000. Lawrie Green & Co., 116 Locust St., Harrisburg, archts. Noted Oct. 1.

Pa., Phila. — APARTMENT — See "Contracts Awarded."

Pa., Phila.—APARTMENT and STORE—Apr. 27, by H. Murphy, archt., Drexel Bldg., 4 story and basement, 90 x 94 ft. apartment and store, Oakland and Oxford Sts., $175,000; also 6 story and basement apartment, 4028 Walnut St., $275,000, both brick and steel, plain foundations for G. T. Sales, Liberty Bldg.

Pa., Phila.—BANK—Apr. 27, by W. L. Blithe, archt., 608 Chestnut St., 2 story and basement, 24 x 214 ft., rein.-con. and brick addition, plain foundation, 52nd and Market Sts., for Market St. Title & Trust Co.

Pa., Phila.—THEATRE—See "Contracts Awarded."

Fla., Miami—TEMPLE and HOTEL—Masonic Temple Assn., taking bids 15 story and basement, 140 x 140 ft., rein.-con., steel and terra cotta temple and hotel. G. D. Mason & Co., 80 Griswold St., Detroit, Mich., archts. Noted Mar. 18.

Miss., Jackson—EXCHANGE—Apr. 27, by Moyre, Alger & Alger, archts., Walton Bldg., Atlanta, Ga., rein.-con. and brick exchange building, here, for Cumberland Telephone & Telegraph Co. $200,000.

Ind., Indianapolis — CHEMICAL LABORATORY — Swan Myers Co., 219 North Senate Ave., taking bids 1 story and basement, 66 x 130 ft. chemical laboratory. $150,000. Former contract rescinded. A. Scherrer, 415 Indiana Trust Bldg., archt.

Ill., Chicago—APARTMENT—Apr. 26, by J. A. Armstrong, archt., 127 North Dearborn St., 16 story and basement, 80 x 100 ft. rein.-con., brick and terra cotta, Delaware Pl. near Rush St., for Delaware Pl. Building Corp., c/o E. L. Berman, 2310 Indiana Ave. $500,000. Noted Feb. 11.

Ill., Chicago—HOTEL—Dubin & Eisenberg, archts., 14 West Washington St., taking bids 6 story and basement, 96 x 150 ft., rein.-con., brick and terra cotta, Racine and Leland Aves., for S. Isenstein, 6231 Kenmore Ave. Noted Feb. 18.

Ill., East St. Louis—APARTMENT—See "Contracts Awarded."

Wis., Milwaukee — OFFICE — Apr. 24, Judell & Bogner, archts., 445 Milwaukee St., remodeling interior 5 story office building, for Milwaukee Electric Ry. & Light Co., 2nd and Sycamore Sts. $200,000.

Minn., Cambridge—ADMINISTRATION—May 4, by State Dept. Administration & Finance, Capitol Bldg., St. Paul, 2 story and basement, rein.-con., brick and stone administration building at Minnesota Colony for Epileptics. $250,000. C. H. Johnston, 715 Capitol Bldg., St. Paul, archt. Noted July 23.

Tex., Kerrville—HOTEL—Apr. 30, by P. G. Selber & Co., archts., 331 Bedell Bldg., San Antonio, 5 story, brick, stone and rein.-con. hotel, here for Singelton & Walls, Houston. $260,000.

Buildings—Commercial (Continued)

Tex., Texarkana—DEPOT—July 1, by E. A. Hadley, ch. engr. Missouri Pacific R.R., Railway Exch. Bldg., St. Louis, Mo., 2 story, 50 x 282 ft., brick, stone and steel depot, here, for Missouri Pacific R.R. Co., Texas & Pacific R.R. Co., E. F. Mitchell, ch. engr., Dallas, St. Louis South Western R.R. Co., W. S. Hanley, ch. engr., Tyler, Tex., and Kansas City Southern R.R., A. N. Reece, ch. engr., Kansas City, Mo., $1,700,000.

Calif., Los Angeles—WAREHOUSE—W. Bruce, archt., Pacific Natl. Bank Bldg., taking bids (1st unit) 5 story, 50 x 75 ft., rein.-con., West 47th St., for Argonne Transfer Co., c/o architect.

Ont., London—HOTEL—Apr. 26, by J. M. Moore, archt., 489 Richmond St., for hotel. $1,000,000. Owner's name withheld.

Que., Three Rivers — HOSPITAL — P. Begue, pres. Le Corporation de l'Hopital Cooke, taking bids 3 story, 60 x 100 ft., rein.-con., brick and steel hospital. $150,000. Asselin & Deunoncourt, Three Rivers, archts. Noted Feb. 25.

B. C., Vancouver—OFFICE—Sept. 1, by W. Dicks, 45 Hastings St. E., 4 story, 52 x 120 ft., rein.-con. and terra cotta, Hastings and Hower Sts. $150,000. Townley & Matheson, 325 Hower St., archts.

Bids Received

Ia., Iowa City — ATHLETIC FIELD HOUSE — Proudfoot, Rawson & Souers, archts. and engrs., 810 Hubbell Bldg., Des Moines, 3 story and basement, 185 x 460 ft., brick and steel, plain foundation, from J. H. Hunzinger & Co., Davenport, for State University of Iowa. $272,112. Noted Apr. 8.

Calif., San Francisco—HOSPITAL—Shea & Shea, archts., 454 Montgomery St., 5 story, rein.-con. annex, from Barrett & Hilp, 918 Harrison St., for St. Marys Hospital. Approximately $850,000. Noted Jan. 21.

Contracts Awarded

Mass., Boston — APARTMENT — Beacon & Hereford Realty Co., 8 Trent St., Arlington, 10 story and basement, 35 x 90 ft., steel, here, to M. W. Ryan, 763 Massachusetts Ave., Cambridge. Archts. est. $500,000.

Mass., Boston—HOTEL—Beacon Chambers, 19 Myrtle St., 6 story and basement, brick and stone addition, plain foundation, to P. J. MacNaughton, 755 Boylston St. Archts. est. $150,000 or more.

Mass., Cambridge (Boston P. O.)—HOSPITAL—Holy Ghost Hospital, Cambridge St., 5 story, 120 x 300 ft., with 2 wings, brick and steel addition, to M. W. Ryan, 763 Massachusetts Ave. Archts. est. $350,000. Noted Apr. 15.

Mass., Dedham—THEATRE, STORE and OFFICE — Dedham Community Theatre Corp., will build 2 story and basement, brick and stone, High St., by day labor, under supervision. H. R. Duffee, archt., 333 Belgrade Ave., Rosindale. $200,000. Noted Apr. 8.

Mass., Fall River—OFFICE—Fall River Electric Light Co., 85 North Main St., 2 story and basement, 135 x 150 ft., brick, Hartwell St., to J. Crowe Co., Inc., 486 2nd St. Archts. est. to exceed $150,000. Noted Mar. 25.

Mass., Hyannis—HOTEL—W. Cox, Camp St., 3 story nad basement, 100 x 145 ft., brick and timber, to H. T. Collette, Hyannis. Archts. est. $175,000.

Mass., Hyannis — HOTEL — Ridgeway Lodge Corp., c/o H. A. Lewis, archt., 75 Westminster St., Providence, R. I., will build 3 story and basement, 90 x 135 ft., and 2 wings, brick, by day labor, here. $200,000.

Mass., Malden (br. Boston)—STORE—S. S. Kresge Co., 2 story and basement, 60 x 100 ft., brick, plain foundation, 52-60 Pleasant St., to J. W. Bishop Co., 683 Atlantic Ave., Boston. Archts. est. $150,000.

Mass., Medford (br. Boston) — APARTMENT—Brown & Fay, 15 Salem St., will build 4 story and basement, 70 x 180 ft., brick and stone, by day labor. $150,000. O. A. Watkins, 15 Salem St., archt.

Mass., Roxbury (Boston P. O.)—APARTMENT—Bernstein & Berman, 160 Homestead St., will build 3 story and basement (6 units) brick and stone, plain foundation, Elm Hill Ave. $165,000. Work will be done by separate contracts. S. S. Eisenberg, 46 Cornhill, Boston, archt.

Mass., Salem — WAREHOUSE — Parker Bros., 190 Bridge St., 1 and 2 story, brick and steel, plain foundation, to Ferguson Co., St. Peters St. extension, Cleveland, O. Archts. est. $150,000.

Conn., New Haven — APARTMENT — Rubino & Daniesi, 74 5th St., 5 story, 50 x 110 ft., brick and steel, Whitney Ave., to Ruda Constr. Co., 421 1st Ave., West Haven. Archts. est. $200,000.

N. Y., New York — APARTMENT — Mazras Building Corp., c/o Bates & Franklin, engrs. and archts., 645 East Tremont Ave., will build brick, steel and stone, plain foundation, 610-616 Academy St., by day labor. $175,000.

N. Y., New York—APARTMENT—Duo Building Corp., c/o J. M. Felson, engr. and archt., 250 West 57th St., will build brick, steel and stone, plain foundation, Webster Ave., by day labor. $900,000.

N. Y., New York—APARTMENT HOTEL—Five Hundred Seventy-one Park Ave. Corp., c/o G. F. Pelham, engr. and archt., 200 West 72nd St., will build brick, steel and stone, plain foundation, Park Ave. and 63rd St., by day labor. $1,000,000.

N. Y., New York—APARTMENT—G. E. R. Constr. Co., c/o L. Stillman, engr. and archt., 311 Lenox Ave., will build brick, steel and stone, plain foundation, Sheridan Ave., by day labor. $160,000.

N. Y., Yonkers — THEATRE — J. E. Andrus, c/o T. W. Lamb, engr. and archt., 644 8th Ave., New York City, will build brick, steel and stone, plain foundation South Bway., here. $1,000,000. Work will be done by separate contracts. Noted Mar. 18.

Pa., Ardmore — SERVICE — Thornton Fuller Auto Co., 125 East Lancaster Ave., 1 story, 30,000 sq.ft. floor space, rein.-con., and brick, plain foundation, Haverford Rd., to W. J. Steele & Son, 219 North Broad St., Phila. Archts. est. $150,000.

Pa., Lansdowne — APARTMENT — G. Weiss, c/o S. Kaplan, archt., 10 South 18th St., 3 story and basement, 110 x 160 ft., brick and steel, plain foundation, Strafford St. and Lansdowne Ave., to J. F. Roystone, 705 East Girard St. Archts. est. $300,000.

Pa., Phila. — APARTMENT — Weiss Kaplan Co., Franklin Trust Bldg., will build 4 story and basement, 150 x 250 ft., stone and stucco, Ellet St. and Lincoln Dr., by day labor. $1,125,000. Work will be done by separate contracts. L. J. Tunis, 1600 Arch St., archt.

Pa., Phila. — EXHIBITION — Textile & Apparel Exhibits Assn., c/o G. F. Pawling, archt., 1432 South Penn Bldg., Palace of Fashion, 1 story, 600,000 sq.ft. floor space, stucco and steel, at Sesquicentenial grounds, Broad and Pattison Sts., to Thompson Starrett Co., Packard Bldg. Archts. est. $1,500,000. Noted Jan. 21.

Pa., Phila.—OFFICE—L. B. Rothschild, archt., 215 South Broad St., 12 story and basement, 39 x 125 ft., rein.-con., brick and steel, Juniper and Arch Sts., to P. M. Sax, Penfield Bldg., for D. Borton, 1218 Chestnut St. Archts. est. $500,000. Noted Jan. 7.

Pa., Phila.—STORAGE—Security Storage Co., 5748 Vine St., 3 story and basement, 150 x 230 ft., rein.-con. and brick addition, plain foundation, 5744-48 Vine St., to F. Claro, 10 South 18th St. Archts. est. $150,000. Noted Feb. 4.

Pa., Phila. — THEATRE — Barris & Bender, Schubert Bldg., will build 1 story and basement, 45 x 200 ft., rein.-con., brick and steel, plain foundation, 5410-12 Chester Ave. $150,000. Work will be done by separate contracts. Neubauer & Supowitz, 929 Chestnut St., archts.

Pa., Pittsburgh — BANK — Iron & Glass Dollar Bank, 1113 East Carson St., general contract 1 story and basement, 60 x 100 ft., stone and brick, Carson St., to D. T. Riffle, 1006 Forbes St. Archts. est. $150,000. Noted Oct. 15.

Pa., Pittsburgh — OFFICE — Pittsburgh Insurance Exchange, c/o W. M. Reed, Union Natl. Bank Bldg., general contract 21 story and basement, 60 x 126 ft. office building, to Boyle Robertson Co., 815 15th St. N. W., Wash., D. C. Archts. est. $1,250,000. Noted Feb. 18.

Pa., Pittsburgh — WAREHOUSE — Gulf Refining Co., Frick Annex, general contract 2 story and basement warehouse, Gross and Mathilda Sts., to Hughes Foulkrod Co., 421 7th Ave. Archts. est. $150,000.

Pa., Williamsport — THEATRE — Lycoming Amusement Co., c/o C. A. Reed, pres., general contract 1 story, balconies and basement, 48 x 175 ft., steel, cinder block and concrete, Pine St., to J. Gehron Co., Inc., Pine and North Sts. Archts. est. $200,000. Noted Mar. 18.

N. C., Morehead City—HOTEL—Morehead Bluffs, Inc., 4 story, 100 room, stucco and tile, to J. E. Beaman State Bldg., Raleigh. Archts. est. about $400,000. Noted Apr. 1.

Ky., Louisville—APARTMENT HOTEL—M. J. Doll, 300 East Jefferson St., Claratin Manor, 7 story, 82 x 160 ft., brick and steel, Willow Ave. and Barringer Ave., to State Constr. Co., 30th and Columbia Sts., Indianapolis, Ind. Archts. est. $350,000.

O., Cleveland—COMMERCIAL GARAGE and APARTMENT—S. Z. Talisman, 11415 Kinsman Rd., 1 and 3 story, 76 x 142 ft., brick, 11503 Kinsman Rd., to J. Goldman, 11104 Kinsman Rd. Archts. est. $150,000. Noted Mar. 25.

O., Cleveland—STORE—Halle Bros. Co., S. H. Halle, pres. and treas., Euclid Ave., 6 story and basement, approximately 150 x 200 ft., brick, terra cotta and rein.-con. annex, Huron Rd., to J. G. [illegible] & Sons, Bulkley Bldg. Archts. est. $1,2[illegible],000.

O., East Liverpool — OFFICE and MERCANTILE—G. O. Thompson, [illegible] story and basement, 50 x 92 ft., 4th St., to Windland Bros. Co., East Liverpool. $150,000.

Ind., Gary—BUSINESS—Tribe of "K" c/o H. H. Kleinschmidt, general contract 4 story and basement, 74 x 12[illegible] ft., brick, rein.-con. and terra cotta, to M. Germoetta, 513 Bway. Archts. est. $160,000.

Ind., Gary—LODGE and CLUB HOUSE—Knights of Columbus, J. W. McLaughlin, ch., 10 story, 125 x 125 ft., brick, steel and concrete, 5th St., to H. G. Christman & Co., 306 South Notre Dame St., South Bend. Archts. est. $750,000. Noted Feb. 25.

Mich., Marquette—BANK and OFFICE—First Natl. Bank & Trust Co., 2 story and basement, 64 x 102 ft., rein.-con., brick and stone, plain foundation, to Hoeppner-Bartlett Co., 414 Grand Ave., Eau Claire, Wis. Archts. est. $200,000. Noted Mar. 18.

Ill., Blue Island—BANK and STORE—Blue Island Trust & Savings Bank, general contract 2 story and basement, 70 x 165 ft., brick and terra cotta bank, to Faltz & Co., 510 North Dearborn St., Chicago. Archts. est. $150,000.

Ill., Chicago — APARTMENT — Astor Building Co., 116 North La Salle St., 16 story and basement, 70 x 105 ft., rein.-con. and brick, Astor Ave., to Lundoff-Bicknell Co., B. F. Keith Bldg., Cleveland, O. Archts. est. $2,000,000.

Ill., Chicago—APARTMENT—McNally & Quinn, archts., 10 South La Salle St., masonry, concrete and carpentry contract 7 story, 46 x 90 ft., concrete, brick and stone, 7147-49 Jeffrey Ave., to H. Janisch & Co., 1813 Winona St. Archts. est. $325,000. Noted Mar. 25.

Ill., Chicago — BANK and OFFICE — J. Scheitler, archt., 605 North Michigan Ave., general contract 3 story and basement, 56 x 175 ft. North Clark St. and Lunt Ave., to H. D. Moreland & Co., 3701 Sheffield Ave., for Phillip State Bank & Trust Co., North Clark St. and Lunt Ave. Archts. est. $230,000. Noted Nov. 5.

Ill., Chicago—HOME—Old Peoples Home, 5015 North Paulina St., masonry and carpentry contract 5 story and basement, 40 x 190 ft., rein.-con., brick and stone, 5015 North Paulina St., to B. J. Regnell Co., 19 South La Salle St.; iron work, to Guarantee Iron & Steel Co., Chicago.

Ill., East St. Louis—APARTMENT—C. S. Mueri Co., 3609 Hartford St., St. Louis, Mo., will build rein.-con., brick, terra cotta and stone, 10th and Pennsylvania Aves., here, by day labor. $150,000. Private plans.

Ill., East St. Louis — HOTEL — Bway. Central Hotel Co., 700 East Bway., general contract 7 story and basement, 96 x 210 ft., rein.-con., brick, steel and terra cotta, Bway. and 5th Sts., to Hollenberg & Co., 118 La Salle St., Chicago. Archts. est. $1,100,000. Noted Dec. 17.

Wis., La Crosse—HOSPITAL—Franciscan Sisters, 10th and Market Sts., 5 story and basement, 43 x 60 ft., and 50 x 170 ft., brick and concrete hospital, to P. Nelson & Son, Newburg Bldg. Archts. est. $300,000.

Wis., Milwaukee—WAREHOUSE—Milwaukee Storage Co., 10 North Clark St., Chicago, Ill., 5 story, 44 x 177 ft., and 57 x 117 ft., brick and concrete, plain and wood pile foundation, South Water St., to W. W. Oeflein, Inc., 86 Michigan Ave. Archts. est. $150,000. Noted Feb. 11.

Wis., Oshkosh—BANK and OFFICE—First Natl. Bank, Main and Washington Sts., 8 story and basement, 94 x 125 ft., brick, stone and concrete, Main St., to Hoggson Bros., 38 South Dearborn St., Chicago, Ill. Archts. est. $800,000. Noted Mar. 25.

Ia., Cedar Rapids — HOTEL — First Avenue Holding Co., c/o J. E. Trewin, pres., 906 Amer. Trust Bldg., will build 12 story and basement, 140 x 140 ft., rein.-con., brick, stone and terra cotta, 1st Ave. and North 2nd Sts. Work will be done by separate contracts under supervision E. D. Krenn & Co., 936 North Michigan Blvd., Chicago, Ill. Archts. est. $1,200,000. Noted Oct. 29.

Ia., Cedar Rapids — WAREHOUSE — Quaker Oats Co., G. Laird, mgr., 12 story, 110 x 260 ft., rein.-con., incl. 48 concrete storage tanks, 3rd and D Sts., to Leonard Constr. Co., 37 South Wabash St., Chicago, Ill. Archts. est. $2,000,000.

Kan., Topeka — BANK and OFFICE — Central Natl. Bank, 700 Kansas St., general contract 50 x 150 ft., steel and stone, to F. M. Spencer & Son, 7th and Harrison St. Archts. est. $250,000.

Buildings—Commercial (Continued)

Minn., Minneapolis—OFFICE—Intersection Holding Co., M. T. Baker, Baker Bldg., pres., general contract 5 story and basement, 143 x 155 ft., rein.-con., brick and stone, 8th St. and Marquette Ave., to J. Leck Co., 211 South 11th St. Archts. total est. about $800,000.

Minn., St. Paul—HOTEL—Arcade Investment Co., H. Lowry, pres., 600 Temple Court Bldg., Minneapolis, general contract, 9 story and basement, rein.-con., brick and stone, 4th and Wabash Sts., to G. J. Grant Constr. Co., 904 Exchange Bank Bldg. Archts. total est. about $1,000,000. Noted Feb. 4.

Mo., St. Louis—APARTMENT—M. Corman, et al., 7 story and basement, 135 x 180 ft. rein.-con., brick and terra cotta, Taylor and West Pine Sts., to Weinberg Realty & Constr. Co., 816 Chestnut St. Archts. est. $450,000.

Mo., St. Louis — APARTMENT and STORE — N. N. Glick et al., 822 Chestnut St., 3 story and basement, rein.-con., brick and terra cotta, Hodiamont and Plymouth Aves., to Weinberg Realty & Constr. Co., 816 Chestnut St. Archts. est. $500,000.

Mo., St. Louis — COMMERCIAL — E. F. Williams et al., c/o First Natl. Co., Bway. and Locust Sts., 4 story and basement, 100 x 155 ft., rein.-con. and brick loft, store and office building, 17th and Locust Sts., to Widmer Eng. Co., Laclede Gas Bldg.

Mo., St. Louis—GARAGE—Famous-Barr Co., 7th and Locust Sts., 3 story and basement, 107 x 230 ft., rein.-con., 622 Walnut St., to Hall Mackay Constr. Co., Dolph Bldg. Archts. est. $150,000.

Mo., St. Louis—LOFT—Rose Realty Co., 905 Washington Ave., 11 story and basement, 130 x 135 ft., rein.-con., brick and steel, 1301-13 Washington Ave., to Harrison-Kopman Constr. Co., International Life Bldg. Noted Oct. 29.

Mo., St. Joseph—OFFICE—See "Buildings—Industrial."

Tex., Colorado—THEATRE, HOTEL and GARAGE—J. M. Thomas and R. Dixon, Colorado, and E. E. Parkhurst, Dallas, 7 story, rein.-con., brick, stone and steel, to Churchill & Humphery Co., 207 Magnolia Bldg., Dallas, $261,000.

Okla., Tulsa—MARKET—Producers Co-operative Co., general contract 1 story and basement, 140 x 140 ft., brick, steel and rein.-con., to G. C. Brickner & Currier, 7th and Kenosha Sts., $127,725. Noted Oct. 16.

Calif., Los Angeles — APARTMENT — Owner, c/o R. D. King, archt., 1124 Van Nuys Bldg., 5 story and basement, 80 x 140 ft., timber, McCadden Pl. near Sunset Blvd., to H. Greenbaum, 430 South La Brea Ave. Archts. est. $80,000.

Calif., Los Angeles — THEATRE — S. Grauman, Biltmore Hotel, 2 story, 140 x 250 ft., rein.-con., Hollywood Blvd. and Orange Ave., to Meyer & Holler, Wright-Callendar Bldg. Archts. est. $756,000. Noted Nov. 26.

B. C., Vancouver—STORE—David Spencer Ltd., Hastings and Seymour Sts., 9 or 10 story, 104 x 260 ft., rein.-con., steel and tile, Hastings and Richards Sts., general contract, excluding foundations and structural steel, to Northern Constr. Co. Ltd., 736 Granville St., $1,250,000; heating and ventilating, to Leeke & Co., 1090 Houser St., $200,000. Noted July 2.

Man., Winnipeg — GARAGE — T. Eaton Co., Ltd., 190 Yonge St., Toronto, 4 story and basement, 100 x 120 ft., rein.-con. and brick, 255-257 Carlton St., here, to Claydon Co., Ltd., Imperial Bank Bldg. Archts. est. $155,000. Noted Apr. 1.

Buildings—Industrial

Proposed Work

N. H., Rochester—LIGHT PLANT—See "Buildings—Commercial."

Mass., Boston—LIGHT MANUFACTURING—See "Buildings—Commercial."

Mass., Waverly (br. Boston)—LAUNDRY—Commonwealth of Massachusetts, Dept. Mental Diseases, plans 1 story, brick laundry, for W. E. Fernald State School. $40,000 appropriated. W. E. Boyd, 109 State House, Boston, engr.

N. Y., Long Island City — PLANT — Ballinger Co., archts., 12th and Chestnut Sts., Phila., soon let contract 1 and 2 story and basement, brick, steel and stone, concrete pile foundation, 4617 Flushing Ave., here, for M. O'Neil Supply Co., 25 Cliff St., New York City.

N. J., Elizabeth—FOUNDRY—Bethlehem Shipbuilding Corp. Ltd., 39 1st St., plans 1 story, rein.-con., brick and steel, plain foundation, 1st St. $50,000. Engineer and architect not selected.

N. J., Newark—PLANT—Battery Equipment Co., 266 Plane St., plans 1 story, rein.-con., brick and steel, plain foundation, 71 South Orange Ave. $50,000. Engineer and architect not selected.

Pa., Phila.—CLEANING and DYEING—Bornot, Inc., 170 Fairmount St., having plans prepared by S. G. Matthews, 2016 East Lippincott St., 1 story and basement, 213 x 268 ft., rein.-con. and brick, plain foundation, 34th and Lehigh Sts.

Pa., Phila. — MANUFACTURING—General Electric Co., Witherspoon Bldg., soon lets contract for Building 9, 74 x 100 ft. Building 10, 106 x 601 ft., and Building 11, 74 x 103 ft. each 7 story and basement, rein.-con. and brick, plain foundations, Elmwood Ave. between 68th and 70th Sts. $1,500,000. Harris & Richards, Drexel Bldg., archts.

Pa., Phila.—MILL—Gotham Silk Hosiery Co., 389 5th Ave., New York City, N. Y., having plans prepared by Harris & Richards, Drexel Bldg., mill, 5th and Courtland Sts., here.

Miss., Vicksburg — SHOPS — See "Railways under Mississippi."

Tenn., Memphis—LUMBER PLANT—J. E. Stark Lumber Co., Plumb St. and Illinois Central R.R. tracks, plans rebuilding plant, recently destroyed by fire. $150,000.

O., London — GARAGE — London Buick Co., having plans prepared 1 story and basement, 40 x 90 ft., brick and concrete, High and Walnut Sts. $60,000. Private plans.

Ill., Burnside—INSPECTION SHOPS—Illinois Central R.R. Co., 135 East 11th Pl., Chicago, A. F. Blaess, ch. engr., soon takes bids superstructures 90 x 440 ft. inspection shop, 50 ft. high, 75 x 440 ft. rein-con. repair shop, 40 ft. high, etc., here. $270,000. This corrects report in Apr. 15 issue.

Ill., Chicago—SHOP, GARAGE, etc.—J. Kulp & Co., 33 South La Salle St., having plans prepared by A. S. Alschuler, 28 East Jackson Blvd., 3 story and basement, 160 x 400 ft. machine, paint and tire storage shops and garage, rein.-con., brick and steel, West Congress St. between Morgan and Aberdeen Sts. $1,500,000. Chicago Post Office, lessee.

Ill., Murphysboro — BULK SERVICE STATION — Standard Oil Co. of Indiana, 2320 Division St., Evansville, Ind., W. J. Lang, dis. mgr., having preliminary plans prepared 2 story and basement, rein.-con. and brick, incl. garage for 12 trucks, steel tanks, loading platforms, etc., 19th St. and Mobile & Ohio R.R. tracks, here. $100,000.

Kan., Windfield—GAS PLANT—Election in May, $242,000 bonds, gas plant.

Mo., Moberly—PLANT—Moberly Paving Brick Co. plans rebuilding plant, recently destroyed by fire. $75,000 loss.

Calif., Stockton — MILL — Roberts & O'Keefe, 425 South Center St., purchased site and plans mill, Fremont St. and Union Ave. $40,000 or more.

Que., Quebec—MILL—Leaside Eng. Co., Ltd., Leaside St., Toronto, Ont., plans pulp and paper mill, 200 tons daily capacity with 2 hydro-electric power developments, and 25 mi. railway extension in Lake St. John Dist., here.

Bids Desired

Mass., Dorchester (Boston P. O.) — FACTORY — See "Contracts Awarded."

Mass., East Milton (br. Boston)—REFRIGERATING PLANT — See "Contracts Awarded."

Mass., New Bedford — REPAIR and SERVICE GARAGE — F. W. Greene, 888 Purchase St., taking bids 2 story, 50 x 95 ft., and 20 x 20 ft., brick and concrete, 2nd and High Sts. $50,000. L. LeBrode, 888 Purchase St., archt.

Mass., Pigeon Cove (Rockport P. O.)—FORGE SHOP and BOILER HOUSE—See "Contracts Awarded."

Mass., Quincy (Ind. br. Boston) — MILK PLANT — White Bros., 83 Brooks St., Norfolk Downs, taking bids 2 story and basement, brick and steel; Brooks St., here. $40,000. W. E. Luke, 365 Powder House Blvd., Somerville, archt.

Mass., Reading—GARAGE and REPAIR SHOP — Town, Municipal Light Dept., taking bids 1 story, concrete and brick garage and repair shop. $50,000. G. H. Sidebottom, 101 Tremont St., Boston, archt.

Conn., Meriden — POWER HOUSE, STACK, LAUNDRY — Apr. 27, by W. T. Arnold, archt., Crown St. Sq., power house, stack, laundry, ironing room, kitchen and bakery, Colony St., for Connecticut State School for Boys. $150,000.

N. Y., Canandaigua — FACTORY — Oberlies & Laurenz, archts., 81 South Union St., Rochester, taking bids general contract 1 story and basement 42 x 159 ft., brick and steel, plain foundation, here, for Owner, c/o M. O'Brien, 167 Ames St., Rochester. $100,000.

N. J., Camden—GARAGE and STORE—Apr. 29, by Ballinger Co., archts., 12th and Chestnut Sts., Phila., Pa., 5 story and basement, rein.-con. and brick, plain foundation, 7th and Linden Sts., here, for Bridge Plaza Garage Co.

N. J., Roselle (Ind. br. Elizabeth)—PLANT—Apr. 15, by Ballinger Co., engrs., 12th and Chestnut Sts., Phila., Pa., 1 story, 200 x 321 ft., concrete, brick and steel, plain foundation, here, for Rapid Addressing Machine Co., 46 West 23rd St., New York City. Noted Apr. 1.

Pa., Harrisburg — PRINTING PLANT — Apr. 27, by Ballinger Co., archts., 12th and Chestnut Sts., Phila., 3 story and basement, 100 x 102 ft., rein.-con., brick and steel addition, plain foundation, Mulberry and Crescent Sts., here, for J. H. McFarland Co., Mulberry and Crescent Sts.

Md., Baltimore—FACTORY—Apr. 23, by Kubitz & Koenig, engrs., Emerson Towers, 2 story and basement, 75 x 201 ft., rein.-con. and brick, plain foundation, Aiken and Curtain Sts., for O. T. Smith & Co., 409 East Saratoga St.

Md., Baltimore—SERVICE and SALES—Apr. 19, by archts., Owen & Sisco, Continental Bldg., 1 story, 90 x 195 ft., concrete and brick, 29th St. and Remington Ave., for Wilson Nash Motors Co., 1109 Cathedral St. $65,000. H. F. Doeleman, 509 North Charles St., engr.

Ill., Chicago—PRINTING PLANT—Apr. 23, by Mundie & Jensen, archts., 39 South La Salle St., 3 story and basement, 49 x 139 ft., brick and stone, Willard Court and Washington Blvd., for Prairie Farmers Publishing Co., 337 West Madison St. $150,000. Noted Jan. 28.

Wis., Green Bay — GARAGE — Oppenhamer & Opel, archts., Nicollet Bldg., taking bids 3 story and basement, 77 x 170 ft., brick, steel and concrete, plain foundation, for Brown Co. Motors, Inc., 610 Main St. $100,000.

Wis., Milwaukee — FACTORY — Seaman Body Corp., 1732 Richards St., taking bids 5 story, 100 x 170 ft., brick and concrete, plain foundation, Richards St. Private plans.

Mo., St. Louis — FACTORY — See "Contracts Awarded."

Mo., St. Louis—PACKING PLANT—See "Contracts Awarded."

Tex., San Antonio—CANDY FACTORY—G. A. Duerler Mfg. Co., West Commerce St., taking bids 6 story and basement, rein.-con. and brick, plain foundation. $200,000. Herff & Jones, c/o San Antonio Loan & Trust Co., 215 West Commerce St., San Antonio, engrs.

Calif., San Francisco — FACTORY — Couchot & Rosenwald, archts., 60 Sansome St., taking bids 3 story and basement, rein.-con. publishing plant, Pacific St., for Traung Label & Lithograph Co., 962 Battery St. Noted Apr. 8.

Contracts Awarded

Mass., Boston—LAUNDRY—G. M. Golbath, 120 Amory Jamaica Plain, 1 story, 60 x 130 ft., brick, here, to R. F. Gleason, 14 Waldron Rd., Rosindale. Archts. est. $40,000.

Mass., Boston—MANUFACTURING and PAINT SHOP—Hub Advertising Co., 483 Tremont St., 1 story, 60 x 100 ft., brick, 1700 Columbus Ave., to F. Cundari, 27 School St. Archts. est. $40,000.

Mass., Boston—REPAIR and SERVICE GARAGE — Savoy Realty Co., c/o M. Linenthal, engr., 333 Washington St., 2½ story, 160,000 sq.ft. floor space, rein.-con., brick and steel, Washington and Perry Sts., to Snider & Druker, 18 Tremont St. Archts. est. to exceed $40,000.

Mass., Dedham — FACTORY — Dedham Finishing Co., 277 High St., 1 story, 50 x 150 ft., brick and steel addition, to McNally Building Co., 65 Concord St., Framingham. Archts. est. $40,000.

Mass., Dorchester (Boston P. O.) — FACTORY — Montello Tile & Marble Co., Inc., 54 Geneva Ave., will alter and construct 1 story, brick and steel addition. $40,000. Work will be done by separate contracts. J. A. Nally, 698 Massachusetts Ave., Cambridge, archt.

Mass., East Milton (br. Boston) — REFRIGERATING PLANT — Granite City Ice Co., F. S. Patch, pres., 550 Adams St., East Milton, will build 1 story, concrete and brick refrigerating plant. $40,000. Work will be done by separate contracts. Private plans.

Mass., Pigeon Cove (Rockport P. O.)—FORGE SHOP and BOILER HOUSE—J. D. De Wolf, engr., 45 Bromfield St., Boston, will build 1 story, 65 x 135 ft., rein.-con. tile and brick addition, concrete foundation, here, for Cape Ann Tool Co. Work will be done by separate contracts. Engrs. est. to exceed $40,000.

Mass., Westfield — MACHINE SHOP — Foster Machine Co., 2 story brick addition, to E. J. Pinney & Co., Inc., 374 Main St., Springfield. $120,622.

Buildings—Industrial (Continued)

Mass., Worcester — ENGINE HOUSE — New York, New Haven & Hartford R.R., E. Gagel, ch. engr., New Haven, brick engine house, here, to E. J. Cross Co., 82 Foster St. Archts. est. $40,000 or more.

R. I., Bristol—MILL—Cranston Worsted Co., Thames St., 4 story, 75 x 100 ft., brick, to P. J. Flynn, 17 Exchange St., Providence. Archts. est. to exceed $40,000.

R. I., Woonsocket—MILL—Woonsocket Falls Mill, 15 South Main St., 6 story, rein.-con., to Aberthaw Constr. Co., 80 Federal St., Boston. Archts. est. $100,000.

Conn., Hartford — FACTORY — Case, Lockwood & Brainard, 141 Pearl St., 5 story, rein.-con., brick, steel and stone, Trumbull and Hicks Sts., to Bent & O'Brien, 183 Ann St. Archts. est. $300,000. Noted Jan. 7.

N. Y., Long Island City — FACTORY — Morganite Brush Co., Inc., 519 West 38th St., New York City, 1 story, 60 x 200 ft., rein.-con. brick and steel, plain foundation, Anable Ave., here, to White Constr. Co., 95 Madison Ave., New York City. Archts. est. $225,000.

N. J., Trenton — FACTORY — Essex Rubber Co., Beakes and May Sts., 1 and 2 story, 55 x 250 ft., and 65 x 250 ft. factory buildings, to H. R. Fell Co., 338 Southard St., $83,000. Noted Jan. 21.

Pa., Phila.—MILL—Kauffman Plush Co., Pennsdale and Mitchell Sts., 5 story and basement, 80 x 106 ft., brick, plain foundation, to R. E. Lamb Co., 841 North 19th St. Noted Mar. 25.

Pa., Phila. — STORAGE — Phila. Grain Elevator Co., Port Richmond St., 4 story, 98 x 371 ft. rein.-con. and brick, plain foundation, Bath and Lippincott Sts., to M. A. Long, Munsey Bldg., Baltimore, Md. Engrs. est. $200,000.

Pa., Pittsburgh—GLASS PLANT—J. T. and A. Hamilton Co., 26th St. and railroad tracks, general contract 1 story, 82 x 120 ft. addition, 26th St., to Coutts Co., 3332 Smallman St. Engrs. est. $40,000.

Ala., Birmingham — FACTORY — Continental Gin Co., Title Guarantee Bldg., six 1 story, concrete, brick and steel factory buildings, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O. Archts. est. $300,000.

Ala., Gadsden — TEXTILE — Sauquoit Spinning Co. of Alabama, Gadsden, 2 story, 104 x 400 ft. with 50 x 80 ft. wing, also four 50 x 100 ft. buildings, to A. K. Adams, 247 Clifton Rd., Atlanta, Ga., $250,000. Noted Apr. 8.

Miss., Moss Point — STORAGE WAREHOUSE — Southwestern Paper Co., storage warehouse, power house additions, and turbine foundations to Morton C. Tuttle Co., 862 Park Sq. Bldg., Boston, Mass.

O., Cleveland — FACTORY — Max Glick Mfg. Co., M. Glick, pres., 711 Woodland Ave., 3 story and basement, 24 x 127 ft., brick and steel addition, to Bolton-Pratt Constr. Co., 7113 Euclid Ave. Archts. est. $40,000.

Ill., Chicago—FACTORY—General Metal Spinning Co., 2824 North California Ave., masonry and carpentry contract 1 story, 40 x 200 ft., brick, 2643-45 Belmont Ave., to Mutual Constr. Co., 2532 Warren Ave. Archts. est. $90,000.

Wis., Milwaukee—GARAGE—Journal Co., 4th and State Sts., 1 story, 150 x 150 ft., rein.-con. and brick, plain foundation, 4th and Poplar Sts., to W. W. Oeflein, Inc., 86 Michigan Ave. Archts. est. $75,000.

Kan., Salina — PACKING PLANT — Swift & Co., 79 West Monroe St., Chicago, Ill., 5 story, 100 x 115 ft., rein.-con. and brick, plain foundation, to Eberhardt Constr. Co., Salina, $65,000. Noted Oct. 29.

Mo., Kansas City — WAREHOUSE — Ralston Purina Co., Rochester and Scott Sts., 1 story, 99 x 144 ft., steel warehouse, to Jones-Hettelsater Constr. Co., 708 Mutual Bldg. Archts. est. $60,000.

Mo., St. Joseph—FOUNDRY—King Mfg. Co., 230 South Clark St., Chicago, Ill., 140 x 480 ft. foundry, also 2 story, 24 x 40 ft. office, brick, steel and corrugated iron, to C. P. Norris, 1220 South 11th St. Archts. est. $150,000.

Mo., St. Louis — FACTORY — Century Electric Co., 1827 Pine St., will build 2 story and basement, 240 x 400 ft., rein.-con. and brick, 3739 Market St., $250,000. Work will be done by separate contracts under supervision of L. B. Pendleton, archt., 119 North 7th St. Noted Mar. 4.

Mo., St. Louis — PACKING PLANT — Geist Bros. Meat Co., 3832 Lucky St., will build 2 story and basement, 100 x 240 ft., brick and concrete addition, Lucky St., by day labor under supervision Natl. Packers Supply Co., archts., 405 Franklin Ave. $100,000. Noted Feb. 11.

Mo., St. Louis—FACTORY—Koken Co., 2528 Texas Ave., 1 story, 160 x 220 ft., 2 story, 100 x 160 ft., 1 story, 100 x 160 ft., 1 story, 90 x 160 ft., and 1 story, 50 x 180 ft. factory buildings, Morganford St., to W. H. Cunliff, 410 North Euclid Ave. Archts. est. $150,000. Noted Mar. 4.

Mo., St. Louis—FACTORY—Missouri Engine Co., 2804 North 11th St., 1 and 2 story, 126 x 145 ft., brick and concrete, 3300 North Bway., to Chapline Constr. Co., Wainwright Bldg. Archts. est. $75,000.

Mo., St. Louis—ICE PLANT and WAREHOUSE—Polar Wave Ice & Fuel Co., 3638 Olive St., 2 story and basement, 120 x 200 ft., rein.-con. and brick, 9th and Victor Sts., to Fruin-Colnon Constr. Co., Merchants Laclede Bldg. Archts. est. $250,000. Noted Mar. 11.

Mo., St. Louis—FACTORY—Sieloff Packing Co., 4339 Natural Bridge Ave., will build 3 story and basement, 40 x 40 ft., brick and concrete, 4326 Sacramento St., by day labor. $40,000.

Tex., Amarillo—PRODUCE and STORAGE PLANT—A. J. Thompson Produce Co., 1 story and basement, 50 x 130 ft., rein.-con. and brick, plain foundation, to F. Bone Constr. Co., Amarillo, $40,000.

Idaho, Lewiston—POWER HOUSE—See "Dams."

Wash., Chelan Falls—POWER PLANT—Chelan Electric Co. granted permit by Federal Power Comn. for hydro-electric development, here, Washington Water Power Co., Spokane, D. L. Huntington, pres., have power rights and will make the development, incl. constructing dam at foot of Lake Chelan, power house on or near Columbia River, and 4 mi. tunnel initial capacity 30,000 hp., maximum 110,000 hp., to Grant Smith & Co., Henry Bldg., Seattle. Initial cost $4,000,000, total $10,000,000.

Buildings—Educational, Religious

Proposed Work

Mass., Boston—MEDICAL DORMITORY—Harvard University, Harvard Medical Alumni Assn., F. M. Rackemann, secy., 1263 Beacon St., having preliminary plans prepared by Coolidge Shepley, Bulfinch & Abbott, Ames Bldg., 4 story and basement, brick and stone, Longwood and Pasteur Aves. $1,500,000.

Mass., Cambridge (Boston P. O.) — SCHOOLS—Shady Hill School, C. Taylor, principal, having revised plans prepared by S. W. Meade, Barristers Hall, Boston, eight 1 story open air buildings, six 30 x 85 ft., one 30 x 100 ft., and other undecided, all brick, plain foundations. $150,000.

Mass., Hingham — HIGH SCHOOL — Town, T. Battermer, chn. building com., plans 2 story and basement, brick and stone, Central St. $225,000. Engineer and architect not selected.

Mass., New Bedford — CHAPEL and SCHOOL—Our Lady of Perpetual Help, c/o Leary & Walker, archts., 1st Natl. Bank Bldg., having preliminary plans prepared 1 and 2 story and basement, brick and stone, Acushnet Ave. To exceed $150,000.

Mass., Roxbury (Boston P. O.)—SCHOOL—Roxbury Latin School, c/o Perry, Shaw & Hepburn, archts., 177 State St., Boston, making plans 2 story and basement, 145 x 245 ft., brick and stone, plain foundation, Spring and Center Sts., here. $400,000.

N. Y., North Tarrytown (Ind. br. Tarrytown)—SCHOOL—Church of St. Theresa, having plans prepared by Knappe & Morris, engrs. and archts., 171 Madison Ave., New York City, brick, steel and stone, plain foundation, Beekman Ave. $200,000.

N. J., Guttenberg (br. Weehawken) — SCHOOL—Bd. Educ. having plans prepared by J. Weber, engr. and archt., 132 26th St., brick, steel and stone, plain foundation. $250,000.

N. J., New Brunswick — CHURCH and CHAPEL—Second Dutch Reformed Church, W. H. S. Demarest, pastor, takes bids about May 15, 1 and 2 story, 40 x 70 ft., and 50 x 90 ft., brick and stone, College Ave. and Mine St. $150,000. Ludlow & Peabody, 101 Park Ave., New York City, archts.

Pa., Altoona—CHURCH and SCHOOL—Our Lady of Lourdes Catholic Church, J. H. Farran, pastor, 2529 Broad Ave., plans 3 story and basement, 100 x 150 ft., brick, stone and steel, West Chestnut Ave. $300,000. Engineer and architect not selected.

Fla., Jacksonville — CHURCH — First Baptist Church Congregation having plans prepared by R. H. Hunt Co., James Bldg., rein.-con. and terra cotta church. $350,000.

La., Homer—HIGH SCHOOL—Claiborne Parish having plans prepared by E. F. Neild, Shreveport, high school. $175,000. Noted Jan. 21.

O., Cleveland Heights (Warrensville P. O.)—CHURCH—Trinity Congregational Church, J. F. Heffner, pastor, East 84th St. and Cedar Ave., Cleveland, having plans prepared by W. G. Caldwell, [illegible] of L. [illegible] Bank Bldg., Cleveland, 1 and [illegible] story, brick and steel, Taylor Rd., here. $[illegible]

Ind., Bloomington—FIELD HOUSE—Indiana University having plans prepared by Daggett & Hibben, Indianapolis, for [illegible] house, 1,000 seating capacity. $200,000. C. R. Ammerman, 925 Continental Bank Bldg., engr.

Ind., Muncie — DORMITORY — Ball Teachers College, B. J. Burris, pres., having plans prepared by Snyder & Babb, 16 East Broad St., Columbus, co. 2 story and basement, 69 x 122 ft. girl dormitory, brick, concrete and stone, campus. $200,000.

Mich., Kingsford Heights (mail Iron Mountain)—SCHOOL—Bd. Educ. Breitung Twp., J. Roth, secy., rejected bids Mar. 2 story and basement brick and tile school. Will readvertise. Noted Jan. 14.

Ill., East St. Louis—HIGH SCHOOLS—Defeated $700,000 bonds for two 2 story and basement Junior High Schools, on [illegible] Winstaley and other for Lansdowne Junior. for Bd. duc., 90, c/o J. S. Pidgeon, 600 S. Louis Ave. Noted Mar. 18.

Wis., Neenah — HIGH SCHOOL — Voted $350,000 bonds 3 story, rein.-con. brick and tile, plain foundation, for Bd. Educ. [illegible] Chubb, 109 North Dearborn St., Chicago, Ill., archts. Noted Mar. 11.

Ia., Bedford—SCHOOL—Voted $160,000 bonds, school, for Bd. Educ. Engineer and architect not announced. Noted Mar. 25.

Ia., Des Moines — CHURCH — Grace Methodist Episcopal Church, A. L. Morgan, chn., 2310 Cottage Grove Ave., having revised plans prepared by Vorse, Kreatsch & Kreatsch, 1201 Commonwealth Bldg., and takes bids in summer, 3 story and basement, 60 x 214 ft., concrete, brick and stone, 37th and Cottage Grove Sts. $250,000. Noted Oct. 1.

Ia., Muscatine — SCHOOL — Independent School Dist., having plans prepared by Dougher, Rich & Woodburn, 805 Y. M. C. A. Bldg., Des Moines, 2 story, 116 x 200 ft. rein.-con. and brick, plain foundation. $175,000. Noted Apr. 1.

Ia., Sioux City — DORMITORY — Board of Trustees Morningside College, 1500 Morningside Ave., take bids about May 15, 3 story and basement, 56 x 135 ft. main building, and (2 units) 2 story, 42 x 80 ft., rein.-con. and brick, concrete pile foundation, Vine Ave. $205,000. Beuttler & Arnold, Sioux City, archts. and engrs. Noted Mar. 4.

Mo., Warrensburg — GYMNASIUM and LIBRARY—Central Missouri Teachers College plans new gymnasium and library. $200,000 appropriated.

Ark., Hot Springs—LIBRARY—Citizens Co., c/o F. Leslie, secy., Chamber Commerce Bldg., having preliminary plans prepared 2 story, concrete, brick and stone library. To exceed $150,000.

Ark., Pine Bluff — COLLEGE — Branch Normal College, c/o C. M. Hurst, State Superv. Grounds & Schools, Little Rock, having preliminary plans prepared 2 dormitories, administration building, teacher cottage and principals residence, 2 and story, brick and concrete. $500,000.

Tex., Amarillo — CHURCH — Congregation Methodist, c/o J. Blackburn, plan brick, stone and rein.-con., 4th and Polk Sts. $300,000.

Tex., Austin—SCHOOL—Election May 15, $150,000 bonds, improving schools. W. D. Yett, mayor.

Tex., Dallas—CHURCH—Church of Incarnation Episcopal Congregation, c/o C. E. Snowden, 2133 North Harwood St., having preliminary plans prepared by Lang & Witchell, 300 Amer. Exch. Bank Bldg., brick, stone and terra cotta church, McKinney St. and Carroll Ave. $300,000.

Tex., Dallas—SCHOOL—City, Bd. Educ. c/o C. M. Moore, secy., had plans prepared by Coburn, Smith & Evans, 2006 Republic Bldg., 2 story and basement, 88 x 206 ft., brick, stone and rein.-con., Acorn and Royal Sts.

Tex., Eastland — HIGH SCHOOL — Bd. Educ., J. H. Caton, pres., having plans prepared by D. S. Castle Co., 701-4 Alexander Bldg., San Antonio, 2 story and basement, rein.-con., brick and stone, plain foundation. $150,000.

Ore., Portland — SCHOOL — School Bd. having plans prepared by G. H. Jones, School Administration Bldg., 2 story, 24 room, brick and terra cotta, 11th, 15th, Buffalo and Oneonta Sts. $250,000.

Que., Cap-de-la-Madeleine — SCHOOL — Roman Catholic School Com., plans 4 story 80 x 100 ft., brick and steel school. $150,000. J. Caron, 21 St. Joseph St., Three Rivers, archt.

Ont., Bridgeburg—SCHOOL—Bd. Educ. A. L. Current, chn., plans 2 story and basement, 8-10 room, rein.-con., brick and steel, plain foundation. $150,000. Engineer and architect not selected.

Ont., Toronto — OBSERVATORY — University of Toronto, Queens Park, plans 2

Buildings—Educational, Religious (Cont.)

story, brick and steel, plain foundation, Bathurst St. $150,000. Engineer and architect not selected.

Bids Desired

Me., Augusta—CHURCH—Apr. 27, by St. Mary's Roman Catholic Parish, T. J. McLaughlin, pastor, brick and steel church, Sewell St. and Western Ave. $200,000. O'Connell & Shaw, 134 Newbury St., Boston, Mass., archts.

N. H., Concord—HIGH SCHOOL—City, H. J. Lake, chn., 97 North Main St., taking bids 2 story and basement, brick and stone school. $150,000. J. D. Leland & Co., 41 Mt. Vernon St., Boston, Mass., archts. Noted Jan. 28.

Vt., Bellows Falls — HIGH SCHOOL — Apr. 30, by Town, Building Comn., 3 story and basement, 135 x 170 ft., rein.-con. and brick high school. $250,000. Tooker & Marsh, 101 Park Ave., New York City, archts.

Mass., Amesbury—SCHOOL—St. Josephs Roman Catholic Church, R. F. Lee, pastor, taking new bids 2 story and basement, brick and stone, Sparhawk St. $150,000. Former bids rejected. O'Connell & Shaw, 134 Newbury St., Boston, archts. Noted Apr. 15.

Mass., Cohassett — SCHOOL — Town, Schoolhouse Dept., taking bids 1 story and basement, 125 x 140 ft., brick and stone, Summer and Main Sts. $150,000. W. H. McLean, 88 Tremont St., Boston, archt.

Mass., South Boston (Boston P. O.) — SCHOOL—Apr. 27, by Schoolhouse Dept., City Hall, Boston, 2 story and basement, 75 x 115 ft., brick and limestone, plain foundation, Vail and 9th Sts., here. $207,000. F. I. Cooper Corp., 178 Tremont St., Boston, archts.

Mass., Waltham (Ind. br. Boston) — SCHOOL—City, H. F. Beal, mayor, taking bids 2 story and basement, brick and stone, Parmenter Rd. off High St. $400,000. Hutchins & French, 11 Beacon St., Boston, archts. Noted Mar. 25.

Mass., Watertown — SCHOOL — Taking bids 2 story and basement, brick, North End Dist. $150,000. Kilham, Hopkins & Greeley, 9 Park St., Boston, archts.

Mass., Wellesley (br. Boston)—BOTANY and ZOOLOGICAL LABORATORY—Apr. 23, by Day & Klauder, archts., 259 Chestnut St., Phila., Pa., and French & Hubbard, archts., 210 South St., Boston, 4 story and basement, 60 x 300 ft. with 40 x 60 ft. and 55 x 60 ft. wings, brick and stone, here, for Wellesley College. To exceed $150,000.

Mass., Winchester—CHAPEL and PARISH HOUSE—First Congregational Church, C. P. Downer, chn. com., taking bids 2 story and basement, 75 x 125 ft., stucco and granite, Church St. $160,000. R. Coit, 9 Park St., and Allen & Colleb, 75 Newbury St., archts.

R. I., Providence — TEMPLE — Temple Emanuel, c/o P. Joslin, Industrial Trust Bldg., taking bids 3 story, brick and stone, Session St. $150,000. Kroykn Browne & Rosenstein, 220 Devonshire St., Boston, Mass., archts.

Conn., Danbury — DORMITORY — State Normal School, F. M. Salmon, comptroller, Hartford, taking bids 3 story, 40 x 170 ft., brick and steel dormitory, here. $150,000. O. G. S. Ziroli, 165 State St., Bridgeport, archt. Noted Feb. 18.

N. Y., Corning—HIGH SCHOOL—May 6 (extended date), by Bd. Educ. brick, steel and stone, plain foundation, Kingsburg Ave. $350,000. Palmer Rogers, 101 Park Ave., New York City, engr. and archt. Noted Apr. 15.

Fla., South Jacksonville (Ind. br. Jacksonville)—HIGH SCHOOL—May 11, by Bd. Pub. Instruction Duval Co., at office Superintendent, Court House, Jacksonville, constructing Junior-Senior High School, Block 12, Shadyside Ave., here. Marsh & Saxelbye, Consolidated Bldg., Jacksonville, archts.

Ky., Harrodsburg—CHURCH—Apr. 29, by Christian Church, 1 and 2 story, 106 x 108 ft., brick and steel church. $200,000. J. H. MacDowell, Bulkley Bldg., Cleveland, O., archt.

Ind., Mishawaka—CHURCH—St. Monicas Catholic Church, J. F. Kohl, pastor, 235 West Grove St., taking bids brick and stone church. $150,000. H. J. Gaul, 228 East Superior St., Chicago, Ill., archt.

Ill., Peoria—HIGH SCHOOL—May 6, by Bd. School Inspection, G. T. Monst, secy., Blaine Sumner High School, 2 story and basement, 24 room, incl. heating and ventilating, etc. rein.-con., brick and steel, plain foundation, Blaine and Sumner Sts. $300,000. W. W. Day, 1415 North Perry St., archt.

Mo., Kansas City — NURSES HOME — Apr. 29, by J. W. Wagoner, chn. Research Hospital, 1409 Grand Ave., 4 story and basement, 80 x 140 ft., rein.-con., and terra cotta nurses home. $150,000. J. G. Bracklein, 200 Kresge Bldg., archt. Noted Apr. 8.

Tex., Ft. Worth—HIGH SCHOOL—Apr. 26, by E. F. Corbett of Bd. Educ., 311 W. T. Waggoner Bldg., Arlington Junior High School, 3 story, 26,000 sq.ft. floor space, brick, stone, and rein.-con. W. G. Clarkson & Co., 610 1st Natl. Bank Bldg., archts. Noted Mar. 22.

Calif., Alhambra—CHURCH—First Presbyterian Church taking bids rein.-con., Commonwealth Ave. $175,000. Marston, Van Pelt & Maybury, 25 South Euclid Ave., Pasadena, archts. Noted Jan. 7.

Calif., Oakland — HIGH SCHOOL — May 4, by Bd. Educ., group of brick and concrete buildings for Frick Junior High School. $400,000. Wythe, Blaine & Olsen, 1800 Telegraph Ave., archts. Noted Aug. 27.

Calif., Santa Cruz — SCHOOL — H. A. Minton, archt., Bank of Italy Bldg., taking bids 2 story and basement, rein.-con. school, for Holy Cross Church. $150,000.

Bids Received

R. I., Providence—SCHOOL—City, Dept. Pub. Buildings, City Hall, Apr. 12, 2 story and basement, 85 x 90 ft., and 3 story, 172 x 190 ft., brick and stone, America St., from Greaney & Sherry, 827 Davol St., Fall River, $413,000; heating and ventilating system, from Files Eng. Co., 75 Westminster St., $46,922. Noted Apr. 8.

Conn., New Britain — HIGH SCHOOL — City, J. M. Halloran, chn. school com., general contract 3 story, 60 x 200 ft., brick and steel addition to Nathan Hale Junior High School, Tremont St., from M. A. Connor, 561 Main St., $163,443. Noted Apr. 1.

N. J., Montclair—SCHOOL—Bd. Educ., general contract Edgemont School from A. C. Windsor, 263 Washington Ave., Newark, $192,500; heating, from Johnson Heating Co., 131 East 26th St., New York City, $25,000.

Pa., Hazleton — SCHOOL — Hazleton School Dist., 3 story and basement, 159 x 220 ft. school, from Sheppard Constr. Co., Miners Bank Bldg., Wilkes-Barre, $558,124.

Ind., Valparaiso—SCHOOL—Bd. School Trustees, C. W. Bouches, supt., Mar. 10, general contract 3 story and basement, rein.-con. and brick, from Town & Blank Constr. Co., Michigan City. Archts. est. $300,000. Noted Feb. 25.

Mich., Kingsford Heights (br. Iron Mountain)—SCHOOLS—Bd. Educ. Breitung Twp., two 2 story and basement, brick and tile, plain foundations, from A. Verville, Hancock, $146,900. Noted Jan. 14.

Neb., Lincoln — UNIVERSITY — D. P. Wilson, archt., Lincoln, Mar. 26, Morrill Hall, 3 story and basement, brick, on campus, from Bickle Constr. Co., University Place, for University of Nebraska. $224,890. Noted Mar. 18.

Contracts Awarded

Mass., Arlington (br. Boston)—SCHOOL—Town, E. R. Barker, chn. com., 2 story and basement, 60 x 90 ft., brick and stone, Irving St., to J. Grenwood, 101 Tremont St., Boston. Archts. est. $150,000.

Mass., Boston — CONVENT — Church of St. Leonard of Port Maurice, 33 Prince St., 4 story and basement, brick, North Pennet Pl., to Capobianco Constr. Co., 46 Cornhill. Archts. est. $150,000.

Mass., Brighton (Boston P. O.) — RETREAT HOUSE—St. Gabriels Monastery, Washington St., 3 story, 60 x 100 ft., brick and concrete retreat house, to J. G. Roy & Sons Co., 21 Silver St., Springfield. Archts. est. $150,000.

Mass., Dorchester (Boston P. O.) — SCHOOL—St. Williams Church, D. J. Murphy, pastor, 2 story and basement, 75 x 95 ft., brick and stone, plain foundation, Savin Hill Ave., Tuttle and Sydney Sts., to Mack Bros., 77 Summer St., Boston. Archts. est. $150,000.

Mass., Jamaica Plain (Boston P. O.) — SCHOOL—Church of Blessed Sacrament, A. T. Connelly, pastor, 2 story and basement, brick, Center St., to J. F. Griffin Co., 15 Exchange St., Boston. Archts. est. $150,000. Noted Dec. 3.

Mass., Melrose (Ind. br. Boston) — SCHOOL—City, City Hall, Winthrop School, 2 story and basement, 60 x 175 ft., brick and stone, to C. H. Cunningham & Sons, 80 Boylston St., Boston, $144,000. Noted Mar. 18.

Mass., Middleboro — HIGH SCHOOL — Town, A. G. Newkirk, chn. Building Com., 2 story and basement, brick, Nickerson St., to T. F. Crowell & Son, 19 South St., Brockton. Archts. est. $150,000.

Mass., Newton (Ind. br. Boston) — ACADEMY — Boston Academy of Sacred Heart, 260 Commonwealth Ave., altering and constructing academy addition, Center and Cabot Sts., to C. Logue Building Co., 18 Tremont St., Boston. Archts. est. to exceed $150,000. Noted Mar. 25.

Mass., Newton (Ind. br. Boston)—CONVENT — Francescan Sisters Order, 20 Manet Rd., 3 story and basement, 55 x 110 ft. addition, to Archdeacon & Sullivan, 5 East Concord St., Boston. Archts. est. $150,000. Noted Apr. 1.

Mass., Orange—SCHOOL—Orange Twp., High School Building Com., altering and constructing 2 story and basement, brick addition, to Taylor-Wheeler Corp., Starrett Bldg., Athol, $127,600.

Mass., Williamstown—FRATERNITY—Delta Delta Fraternity, Williams College, 3 story and basement, brick, steel and stone, plain foundation, to J. R. Hampson & Co., Inc., 184 North St., Pittsfield. Archts. est. $150,000. Noted Feb. 25.

Conn., Bristol—NURSES HOME—Bristol Hospital, T. G. Treadway, chn. Building Com., Oakland St., brick and concrete addition, to L. Miller Co., Church St., Meriden. Archts. est. $150,000. Noted Jan. 14.

Conn., Waterbury—CHURCH—Immaculate Conception, W. J. McQuirk, pastor, 1 story and basement, 140 x 190 ft., brick and stone, West Main St., to Tracy Bros., 42 Benedict St. Archts. est. $250,000. Noted Mar. 25.

N. J., Nutley (br. Newark) — HIGH SCHOOL—Bd. Educ., Park School Bldg., Franklin Ave., for high school Franklin Ave., to T. M. Day & Sons, Fitz-Charles Bldg., Trenton, $472,983. Noted Apr. 8.

Pa., Phila. — CONVENT — St. Bartholomew Roman Catholic Church, c/o J. S. Scanlon, pastor, Large and Sanger Sts., 3 story and basement, 41 x 122 ft., rein.-con., brick and steel, plain foundation, Large and Sanger Sts., to Murphy Quigley Co., 1524 Sansom St.

Pa., Phila.—EXHIBITION—J. Molitor, archt., 1313 Walnut St., Palace of Education, 1 story, 208 x 254 ft., rein.-con., stucco and steel, wood pile foundation, Broad and Pattison Sts., to Austin & Co., 16112 Euclid Ave., Cleveland, O., for Sesquicentennial Exposition. W. F. Kendrick, pres. $348,000. Noted Apr. 8.

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt. Buildings, 19th and Chestnut Sts., general contract 3 story and basement, 36 x 159 ft., rein.-con., brick and steel, 17th and Folsom Sts., to Nelson-Pedley Co., Corn Exch. Bank, $327,000; and heating, to McClintock Co., 1937 Ridge Ave., $29,495. Noted Apr. 15.

Pa., Phila.—SCHOOL—Bd. Educ., J. D. Cassell, supt. Buildings, 19th and Chestnut Sts., general contract 3 story and basement, 141 x 212 ft., rein.-con. and brick, plain foundation, Lyons Ave. and Brunswick St., to Nelson-Pedley, Corn Exch. Bldg., $462,452; heating, to W. H. Ambrose & Son, Levington and Umbria Sts., $43,980; and ventilating, to Mellon Co., 4419 Ludlow St., $26,080. Grand total $533,512. Noted Apr. 15.

Md., Baltimore—SCHOOL—Bd. Awards, 3 story and basement, 64 x 252 ft., brick and steel, plain foundation, Preston and Walnut Sts., to Mason, Curley, Brady Inc., 308 West Madison St., $327,000. Noted Mar. 25.

N. C., Concord—CHURCH—First Presbyterian Church, new church, Union St., to J. P. Little & Son, Realty Bldg., Charlotte, $200,000.

Fla., Daytona—SCHOOLS—Bd. Pub. Instruction, Volusia Co., G. W. Marks, secy., Deland, constructing high school, 3rd Ave., to J. L. Pratt, Harvey Ave., Daytona Beach, approximately $300,000; also grammar school, 2nd St. and Volusia Ave., to L. W. Alsheimer, Deland. Noted Feb. 18.

Fla., Miami — SCHOOL and HOME — Jesu School Roman Catholic Congregation, 2 story each, brick, steel and concrete school and sisters home, to Andrews-Fay Constr. Co., 1341 East Blvd., Cleveland, O. Archts. est. $500,000.

O., Cleveland — CHURCH and SUNDAY SCHOOL — Grace Lutheran Church, H. W. Bartels, pastor, 1879 East 66th St., 2 story, brick, steel and concrete, Cedar Rd., to Engstrom & Co., 1117 Chapline St., Wheeling W. Va. Archts. est. $200,000.

O., East Cleveland (br. Cleveland)—SCHOOL—Bd. Educ., C. A. Tilden, dir., Shaw and Euclid Aves., Cleveland, front portion 2 story and basement, brick, steel

Buildings—Educational, Religious (Cont.)

and concrete addition, to J. H. Moore, 18112 Landseer Rd., $90,246. Noted Apr. 1.

O., Lakewood (Cleveland P. O.) — SCHOOL — Bd. Educ., G. W. Crill, clk., 1456 Warren Rd., Cleveland, 2 story and basement, brick, steel and concrete, Lake Ave., to M. B. Parker Constr. Co., 1836 Euclid Ave., Cleveland, $143,772. Noted Mar. 25.

O., Ravenna — CHURCH — W. Jansen, archt., 1227 Prospect Ave., Cleveland, 1 story and basement, 50 x 118 ft., brick, steel and concrete church, here, to P. L. Frank Constr. Co., Ravenna, for Immaculate Conception Church, J. T. Daley, pastor. Archts. est. $150,000. Noted Feb. 11.

Ind., Gary — SCHOOLS — Bd. School Trustees, W. Wirt, supt., general contract 3 brick, steel and rein.-con. schools, to Danielson Constr. Co., Laporte. Archts. est. $405,000. Noted Jan. 14.

Ia., Ottumwa—CHURCH—First Presbyterian Church, 3 story 60 x 100 ft. Sunday school section and 1 story, 45 x 110 ft. church section, to M. Mildenstein, Cedar Rapids, $126,336.

Mich., Kingsford Heights (mail Iron Mountain)—SCHOOL—Bd. Educ. Breitung Twp., J. Roth, secy., general contract 2 story and basement, brick and tile, to G. A. Gustafson Co., Iron Mountain, $71,807. Noted Jan. 14.

Minn., Columbia Heights (Minneapolis P. O.)—SCHOOL—Bd. Educ., G. R. Warren, clk., 4144 Northeast 5th St., Minneapolis, general contract 3 story and basement, rein.-con., brick and stone, here, to Bracker Constr. Co., 752 Builders Exch. Bldg., Minneapolis. Archts. est. about $275,000. Noted Mar. 11.

Neb., Omaha — SCHOOL — Bd. Educ., M. E. Bird, secy., 2 story and basement school, 45th and Hamilton Sts., general contract, to Borchman & Sons, 4205 Lake St., $130,250; heating, plumbing and ventilating, to B. Grunwald, 1110 Farnam St., $31,518. Noted Apr. 8.

S. D., Brookings — LIBRARY — Bd. Regents, H. H. Gamble, secy., Pierre, general contract 3 story and basement, rein.-con., brick and stone at State Agricultural College, here, to Brickell Constr. Co., Watertown, $201,400. Noted Feb. 11.

Mo., St. Louis—CONVENT—Sts. Peter and Paul Parish, c/o J. F. Stevens, pastor, 1917 South 7th St., 4 story and basement, 32 x 117 ft., brick and concrete, Geyer Ave., to Mississippi Valley Constr. Co., 802 Chestnut St.

Tex., Amarillo — SCHOOL — Bd. Educ., c/o G. M. Wadill, secy., general contract 3 story, 130 x 190 ft., brick, stone and rein.-con. school, to F. Bone Constr. Co., 709 Amarillo Bldg., $114,910.

Tex., Ft. Worth—HIGH SCHOOL—Bd. Educ., c/o C. M. Moore, supt., 3 story and basement, 225 x 301 ft., rein.-con., brick and steel addition to Senior High School, Cannon University, Terrell and Henderson Sts., to H. B. Friedman, 1st Natl. Bank Bldg., $456,900.

Okla., Norman — HIGH SCHOOL — Bd. Educ., 2 story and basement, 150 x 260 ft., brick, plain foundation, Boyd St., to Bailey & Burns, Norman, $139,200. Noted Mar. 11.

Calif., Los Angeles — SCHOOL — Bd. Educ., general contract Thomas Starr King Junior High School, 3 story, 62 x 243 ft. main building, and 64 x 138 ft. schedule building, etc., to J. F. Kobler, 932 South Rimpau Blvd., $256,958. Noted Sept. 17.

Calif., Petaluma — CHURCH — St. Vincents Catholic Church, steel and rein.-con. church, to Leibert & Trobock, 185 Stevenson St., San Francisco, $160,000. Noted Mar. 25.

Calif., San Diego—NURSES HOME—Mercy Hospital, 4 story and basement, 90 x 150 ft. nurses home, to Hennessy Bros. Co., 208 West 8th St., Los Angeles, $150,000. Noted Apr. 8.

Calif., Santa Barbara—SCHOOL—Our Lady of Sorrows Catholic Church, 2 story and basement, 135 x 145 ft., rein.-con., Anacapa St., to Barrett & Hilp, 918 Harrison St., San Francisco, $150,000.

Ont., Toronto—CHURCH—Holy Rosary Church, St. Clair Ave., general contract 1 and 2 story and basement, rein.-con., brick and steel, plain foundation, St. Clair and Kendall Aves., to H. N. Dancy & Sons, Ltd., 22 College St. Archts. est. $165,000. Noted Aug. 13.

Federal Government Work

Proposed Work

Va., Yorktown—Fuel Depot—Spec. 5116—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans naval fuel depot, foam fire protection, here.

Ill., Great Lakes (mail Waukegan) — Apartment—Spec. 5158—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans apartment house, here.

Minn., St. Paul—Boats and Barges—Upper Mississippi River Barge Line Co., c/o St. Paul Chamber of Commerce, soon takes bids three 400 hp. power boats and fifteen 400-500 ton capacity steel barges, for Inland Water Corp. $600,000.

Bids Desired

N. Y., St. George—Generators—Apr. 26, by Supt. Lighthouses, six 5 kw. 110 volt d.c. generators driven by kerosene engine, both on common base.

N. Y., St. George—Mooring Chain—May 3, by Supt. Lighthouses, 10 pieces 2 in. and 1 piece 1⅜ in. cast steel mooring chain, approximate total 56,000 lb.; also approximately 13,400 lb. extra cast steel shackles and swivels for chain.

D. C., Wash.—Generators—May 18, by U. S. Engineers Office, 1068 Navy Dept. Bldg., 3 generators, automatic switching and electrical equipment; adv. E. N.-R. Apr. 22.

Ga., Douglas—Subdrainage—May 6, by Treas. Dept. at office Supervising Archt., Wash., D. C., subdrainage at U. S. Post Office, here; adv. E. N.-R. Apr. 22.

O., Hamilton—Remodeling—May 10, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling, driveway, etc. at U. S. Post Office, here. J. A. Wetmore, acting supervising archt.; adv. E. N.-R. Apr. 22.

Wis., Milwaukee—Concrete—Apr. 29, by C. Hubbard, supt. Lighthouses, Federal Bldg., 960 cu.yd. concrete from floating plant into forms built by U. S., at north breakwater, here.

Bids Received

N. Y., Syracuse—Mezzanine, etc.—Treas. Dept. at office Supervising Archt., Wash., D. C., mezzanine floor etc., for U. S. Post Office, here, from W. L. Morrison Constr. Co., Natl. Metal Bank Bldg., Wash., D. C., $10,300. Noted Apr. 1.

Pa., Chester—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., Apr. 3, remodeling U. S. Post Office, here, from W. MacDonald Constr. Co., Syndicate Trust Bldg., St. Louis, Mo., $6,900. Noted Mar. 25.

Del., Wilmington—Pump—U. S. Engineer Office, pump, from Ellicott Machine Corp., Bush and Severn Sts., Baltimore, Md., $3,650.

Ala., Florence—Wire, etc.—U. S. Engineers Office, copper wire and cable for navigation lock, from Safety Cable Co., New York City, N. Y., $4,599.

Ala., Mobile—Quarantine Station—Treas. Dept., at office Supervising Archt., Wash., D. C., Apr. 6, general contract quarantine station and double quarters, here, from A. S. Samford, 24 Galena Ave., Montgomery, $153,000 and $1,700 respectively; driveways, roads, etc., from A. Blair, 11 South Lawrence St., Montgomery, $4,600; mechanical equipment, from W. Wilbey, Selma, $44,444. Noted Mar. 25.

Wis., Fort Atkinson—Remodeling—Apr. 26, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging mailing vestibule, etc. at U. S. Post Office, here.

Ark., Camden — Post Office — Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling screen at U. S. Post Office, here, from W. MacDonald Constr. Co., Syndicate Trust Bldg., St. Louis, Mo., $2,025.

Calif., San Francisco—Remodeling—May 7, by Treas. Dept., at office Supervising Archt., Wash., D. C. remodeling kitchen, mess hall and laundry at U. S. Marine Hospital, here. J. A. Wetmore, acting supervising archt.

Calif., Santa Barbara—Extension—Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story extension to U. S. Post Office, here, from Stiles Constr. Co., Pasadena, $18,457. Noted Apr. 1.

Contracts Awarded

Pa., Phila. — Fence and Gates — Spec. 5204—Bureau Yards & Docks, Navy Dept., Wash., D. C., fence and gates at Navy Yard, here, to Cycline Fence Co., 800 Frelinghuysen Ave., Newark, N. J., $23,418 (75 days).

D. C., Wash.—Elevator—U. S. Engineers Office, Navy Bldg., installing freight elevator for water supply project of Dist. of Columbia, to Westbrook Elevator Mfg. Co., Danville, Va. $5,700. Noted Mar. 11.

Ala., Florence — Roadway — U. S. Engineer Office, roadway at Dam 2 (Wilson Dam) Tennessee River, to Lawrence Constr. Co., Jackson, Miss., $45,136. Noted Mar. 4.

Ky., Louisville—Cement—U. S. Engineers Office, P. O. Box 72, approximately [illegible] bbl. Portland cement Lots 1 to [illegible] to Kosmos Portland Cement Co., M. E. Taylor Bldg., $174,440. Noted Feb. 11.

O., Lorain—Vestibule—Treas. Dept. at office Supervising Archt., Wash., D. C., mail vestibule, etc., here, to W. A. Steans, Elyria Rd., $3,960. Noted Apr. 8.

Iowa—Levee—Secretary Mississippi River Comn., 1311 International Life Bldg., St. Louis, Mo., about 180,000 cu.yd. earthwork by hydraulic method in Iowa River-Flint Creek Levee Dist, here, to La Crosse Dredging Co., 405 Plymouth Bldg., Minneapolis, Minn., $33,750. Noted Apr. 15.

Ore., Astoria — Quarters — Spec. 5170 — Bureau Yards & Docks, Navy Dept., Wash., D. C., double quarters at Naval Radio Station, here, to J. G. Wethers, 409 Lyon Bldg., Seattle, Wash., $8,449 (150 days). Noted Apr. 1.

Alaska — U. S. Engineers Office, Burke Bldg., Seattle, Wash., 20,000 ft. corrugated iron pipe for culverting roads, here, to Howard-Cooper Corp., 1041 6th St., Seattle, Wash., $25,111.

Unclassified

Proposed Work

Playground—Charlestown (sta. Boston), **Mass.**—City of Boston, Dept. Pub. Wks., plans improving Sullivan Sq. Playground, Dewey Beach, here. $25,000. J. H. Sullivan, comr.

Grade Crossing Elimination,—Windsor Locks, Conn. — New York, New Haven & Hartford R.R., E. Gagel, ch. engr., New Haven, State Hy. Comn., Hartford, and Springfield St. Ry., plan elimination of Yellow Tavern grade crossing. $140,000. J. A. Macdonald, Hartford, highway comr.

Colonnade — New Haven, Conn. — Yale University, having plans prepared by J. W. Cross, 385 Madison Ave., New York City, colonnade, Yale Bowl, on Derby Ave., as memorial to late Walter Camp. $350,000.

Grade Crossing Elimination—New York —Plans 1 grade crossing elimination on Boston & Albany R.R., $372,000; 2 on Boston & Maine R.R. $181,000; 8 on Delaware, Lackawanna & Western R.R., $1,427,000; 6 on Erie R.R., $3,845,000; 5 on Buffalo, Rochester & Pittsburgh R.R., $500,000; 3 on Central New England R.R., $295,000; 10 on Delaware & Hudson R.R., $2,516,000; 1 on Lehigh & Hudson River R.R., $110,000; 20 on Lehigh Valley R.R., $3,950,000; 10 on Long Island R.R., $2,858,000; 25 on New York Central, $4,738,000; 2 on New York, Chicago & St. Louis R.R., $171,000; 8 on New York, Ontario & Western R.R., $1,915,000; 6 on Pennsylvania R.R., $1,071,000; 3 on Rutland R.R., $300,000; 3 on Ulster & Delaware R.R., $325,000; 1 on Arcade & Attica R.R., $108,000; 1 on Delaware & Northern R.R., $75,000; 1 on Fonda, Johnstown & Gloversville R.R., $123,000; 1 on Louvill & Beaver River R.R., $126,000; 1 on Middletown & Unionville R.R., $106,000; 1 on Norwood & St. Lawrence R.R., $63,000; 1 on Pittsburgh, Shawmut & Northern R.R., $91,000, 1 on Genesee & Wyoming R.R., $75,000; and 1 on United States & Canada R.R., $64,000. Cost to be borne by Railroads, Municipality and State Hy. Dept.

Swimming Pool — Newark, N. J. — See "Buildings—Commercial."

Suburban Development—Raleigh, N. C.—J. H. Slaughter & Associates, plan developing 700 acres known as Carolina Gables into residential district, incl. grading, paving, sewers, swimming pool, etc.

Gas Mains—Clearwater, Fla.—Election Apr. 27, $75,000 bonds, extending gas mains in various streets.

Island Park—Clearwater, Fla.—Election Apr. 27, $50,000 bonds, constructing Island Park.

Ornamental Lighting System—Akron, O. —See "Streets and Roads."

Gravel Plant—Columbus, O.—Island Sand & Gravel Co., 315 North 4th St., had plans prepared gravel plant, 5,000 tons daily capacity.

Subway Entrance—Detroit, Mich.—See "Buildings—Commercial."

Toll Cable Line — Illinois — Illinois Bell Telephone Co., 213-230 West Washington St., Chicago, G. C. Treadway, dist. mgr., 320 Fulton St., plans 175 mi. toll cable line from Peoria to Chicago, incl. repeater stations, etc., at Ottawa, Joliet, and Chicago. $2,000,000.

Unclassified (Continued)

Street Lighting System—Chicago, Ill.—Voted $2,500,000 bonds, street lighting system.

Swimming Pool — Chicago, Ill. — See "Buildings—Commercial."

Subway — East St. Louis, Ill. — City Council and Terminal R.R. Assn. of St. Louis, Mo., H. J. Pfeifer, ch. engr., plans concrete subway to carry State St. between 18th and 20th Sts. under Terminal R.R. tracks.

Generating Units—Highland, Ill.—W. A. Fuller Co., engrs. 1917 Railway Exch. Bldg., St. Louis, Mo., takes bids this summer 1 or 2 new generating units, probably 500 kw. and 250 kw. with auxiliary wiring, etc. for city light plant, here. $40,000.

Retaining Wall—Rock Island, Ill.—Plans 720 ft. concrete retaining wall, 10 ft. high. $51,000.

Electric Distribution System—Springfield, Ill.—City plans addition and extension to electric distribution system. $50,000. W. J. Spaulding, City Hall, engr.

Lighting System, etc. — Canton, Mo. — Election May 4, $15,000 bonds, constructing White Way and $10,000 bonds, curbing, guttering, etc. various streets. W. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, engrs.

Subway—Kansas City, Mo.—Kansas City Terminal R.R. Co., Kansas City Terminal Bldg., J. V. Hanna, ch. engr., plans rein.-con. or steel subway, Van Blunt Blvd. between 9th and 12th Sts. $300,000.

Golf Course, etc.—St. Louis, Mo.—Midland Valley Country Club, c/o C. M. Talbert, chn. Building & Grounds, Pierce Bldg., takes bids in early summer reconstructing golf course, underground drainage, playground, constructing 1 story and mezzanine, 56 x 170 ft. locker building, also remodeling, etc. present club house. $200,000. Helfensteller, Hirsch & Watson, Chemical Bldg., engrs.

Stadium—Austin, Tex.—Texas Memorial Stadium Assn., Inc., having plans prepared rein.-con. addition to Texas Memorial Stadium. $125,000. A. T. Granger, designing engr.

Turbo-Generator, etc.—San Angelo, Tex.—West Texas Utilities Co., Abilene, making plans 6,250 kva. capacity steam turbo-generator and battery of 3 steam boilers, here. $800,000. Private plans.

Lighting System—Oklahoma—Town of Douglass voted $27,000 bonds, new electric light system in Douglass, and transmission line to connection with Oklahoma Gas & Electric Co. line, near Covington. H. G. Olmstead, Oklahoma Bldg., Oklahoma City, engr.

Transmission Line — Oklahoma — Pub. Serv. Co., Choteau, plans 33,000 volt transmission line from Pryor to Choteau. $60,000. Private plans.

Grain Elevator—Enid, Okla.—Enid Milling Co. purchased site and plans rein.-con. elevator, 1,000,000 bu. capacity. $250,000. Engineer and architect not selected.

Power Developments—Quebec, Que.—See "Buildings—Industrial."

Coal Dock—Saulte Ste. Marie, Ont.—Algoma Steel Corp., 503 Queen St. E., plans improving wood and concrete coal dock. $30,000. Private plans.

Sand and Gravel Plant, etc.—North Vancouver, B. C.—Deeks Gravel & Rock Co., 744 Hastings St. W., Vancouver, plans modern sand and gravel plant and bunkers at mouth Capelano River. $100,000. J. C. Buckbee, 744 Hastings St., engr.

Bids Desired

Bowling Alley — Boston, Mass. — See "Buildings—Commercial."

Platform Extensions—New York, N. Y.—Apr. 30, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., extending Essex St., Bowery and Chambers St. stations of Broadway-Fourth Ave. Rapid Transit R.R., Group 2.

Camp—Tullahoma, Tenn.—Apr. 29, by W. C. Boyd, State Adjutant General, State Capitol Bldg., Nashville, for guard camp, incl. grading, waterworks, sewers, camp buildings, target ranges, etc. $68,000.

Coal Loading Station—Peoria, Ill.—See "Contracts Awarded."

Heating, Plumbing and Ventilating — Peoria, Ill.—See "Buildings—Educational, Religious."

Cable Lines — Cedar Rapids, Ia. — See "Contracts Awarded."

Culverts—Toledo, Ia.—See "Bridges."

Culverts—Vinton, Ia.—"Bridges."

Culverts—Marshall, Minn.—See "Streets and Roads."

Culverts—South Dakota—See "Streets and Roads."

Transmission Line—Arkansas—See "Contracts Awarded."

Bids Received

Heating and Ventilating — Providence, R. I. — See "Buildings — Educational, Religious."

Contracts Awarded

Signal Tower — New York — Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., interlocking signal tower at New Utrecht Ave. and 62nd St., Brooklyn, also sewer and water connections in various locations of Rapid Transit R.R. in boros Brooklyn, Manhattan, Bronx and Queens, to Ascher Eng. & Constr. Co., 1757 Bway., New York City, $18,295. Noted Apr. 8.

Special Work—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., special work (rails, frogs and switches) Order 32, for portion Queens Subway, to Ramapo Ajax Corp., 30 Church St., $3,658. Noted Apr. 15.

Seawall—St. Petersburg, Fla.—Constructing seawall along Bay front, to Raymond Concrete Co., $295,000.

Lighting System—Booneville, Miss.—See "Streets and Roads."

Stadium — Evanston, Ill. — Northwestern University, 619 Clark St., double deck, 600 x 630 ft., 49,000 seating capacity, concrete, steel and stone, Central St., to J. B. French Co., 30 North Michigan Ave., Chicago. Archts. est. $1,000,000. Noted Mar. 18.

Coal Loading Station — Peoria, Ill. — Peoria & Pekin Union Ry. Co., Peoria, E. E. Rogers, ch. engr., will build coal loading station, concrete and steel, 30 x 30 ft. tipple, 85 ft. high, foot of Apple St., by day labor. $50,000. V. V. Boatner, 37 Union Depot, pres. Private plans.

Culverts—Iowa—See "Bridges."

Amusement Park—Cedar Rapids, Ia.—Cedar Rapids Amusement Co., c/o H. R. Green, Bever Bldg., Frontier Park amusement resort, incl. 20 brick and tile buildings, 80 x 150 ft. swimming pool, band stand, 0.5 mi. dirt race track, cinder walks, etc., to T. Stark & Co., 118 South 11th St. W. Engrs. est. $100,000.

Cable Lines—Cedar Rapids, Ia.—Northwestern Bell Telephone Co., H. M. Morrison, mgr., will build several miles aerial and underground cable extensions, etc., by day labor. Engrs. est. $125,000.

Culverts—Logan, Ia.—Harrison Co., 48 box culverts and extensions and 5 circular culverts, on Federal Aid Project 138, to M. B. and S. Co., Boone. $76,000.

Culverts—Hoxie, Kan.—See "Streets and Roads."

Culverts—Ottawa, Kan.—See "Streets and Roads."

Culverts—Nebraska—See "Streets and Roads."

Amusement Park—St. Louis, Mo.—Installing sand beach, wading pool, enlarging boating lake, etc., at Crystal Springs Lake Park, on Clayton Rd., to W. H. Smith-Nelson Cunliff Co., 110 North 7th St. Engrs. est. $25,000.

Overhead Crossing — Arkansas — See "Streets and Roads."

Transmission Line — Arkansas — Central States Power & Light Corp., Kahl Bldg., Davenport, Ia., will build 33,000 volt transmission line from Harrisburg to Weiner, here, by own forces, for Arkansas Pub. Serv. Co. (subsidiary). Engrs. est. $100,000. P. Miller, Harrisburg, engr.

Tunnel — Chelan Falls, Wash. — See "Buildings—Industrial."

Materials

Bids Desired

Wood Blocks—Boston, Mass.—Apr. 27, by Supply Dept., F. L. Brier, supt., 50,000 wood blocks to Paving Serv.

Portland Cement — Brookline (br. Boston), **Mass.** — Apr. 26, by Bd. Selectmen, Town Hall, Portland cement for town, specifications as needed. Address Town Engineer.

Mixed Concrete—Cleveland, O.—May 1, by Comrs. Cuyahoga Co., mixed concrete. L. Simon, co. clk.

Wire, etc.—Cleveland, O.—Apr. 23, by City, 5,000 lb. No. 8 B & S Gauge solid copper wire, 20,000 lb. 1/o and 20,000 lb. 4/o B & S Gauge stranded wire, four hundred 4 in. and fifty 6 in. fire hydrants.

Sand, etc.—Indianapolis, Ind.—Apr. 29, by Bd. School Comrs., 150 North Meridian St., 6,000 ft. 6 in. common yellow pine, drop siding, delivered to 1229 East 16th St.; 1,100 rock face concrete blocks, 100 rock face corner concrete blocks, 1,200 plain backing concrete blocks, standard size, and 12 boxes, 300 lbs. each 96 x 96 in. Follensbys long turn roofing tin plates, also 25 cu.yd. clean washed sharp sand, and 50 cu.yd. washed gravel, delivered to 1129 East 16th St.; 1 carload Portland cement, at Lewis and 15th Sts. U. M. Fraser, bus. dir.

Road Oil—Green Bay, Wis.—Apr. 28, by W. L. Kerr, city clk., 10,000 gal. 50% to 60%, and 20,000 gal. 60% to 70% asphaltic content road oil.

Sand, Crushed Stone, etc. — Milwaukee, Wis. — Apr. 26, by Central Bd. Purchases, sand, gravel and crushed stone for season. J. W. Nicholson, ch. buyer.

Chlorine—South Milwaukee, Wis.—Apr. 27, by Bd. Pub. Wks., R. J. Schaner, secy., 1 carload liquid chlorine.

Bids Received

Road Oil, etc. — Boston, Mass. — Supply Dept., Apr. 7, road asphalt and asphaltic cement, from Standard Oil Co. of New York, Park Sq. Bldg., $25.18 and $23.97 per ton respectively; asphaltic road oil from M. Moulton Jr., 6 Beacon St., $0.0669 per gal., coal tar catching, from Trimont Oil Co., 131 State St., $31.09 per ton; arsenate of lead, from Dow Chemical Co., Midland, Mich., $275 per ton. Noted Apr. 1.

Asphaltic Cement — Milwaukee, Wis. — Central Bd. Purchases, J. W. Nicholson, ch. buyer, Apr. 8, from Camden Petroleum Co., 232 South Clark St., Chicago, Ill., Spec. 1, 100 tons asphaltic cement at $24.95 per ton; Spec. 2, 175 tons $24.95 Spec. 3, 125 tons $24.10; also Specs. 3 and 5, 125 tons $24.95. Noted Apr. 1.

Contracts Awarded

Road Material — Flemington, N. J. — Hunterdon Co., 120,000 gal. "U.B." road material, to Dorsch-King Co., Montclair, N. J., at $0.121 per gal.

Steel Pipe — Chicago, Ill. — Dept. Pub. Wks., City Hall, 4,800 ft. 18 in. 16 gauge steel pipe, 20 ft. lengths, to Chicago Metal Mfg. Co., 3724 South Rockwell St., at $25.50 per length. Noted Apr. 8.

Asphalt and Filler — St. Paul, Minn. — A. E. Eggert, city purch. agt., 350 tons asphalt filler, to Standard Oil Co., 3rd and Commercial Sts., $21.50 and $26 per ton respectively.

Cement and Sewer Brick—St. Paul, Minn.—A. E. Eggert, city purch. agt., 1,830 bbl. Portland cement, to Speakes Co., Griggs and Fuller Sts., and four other St. Paul firms at $2.45 per bbl. on cars and $2.60 delivered; also two thousand 24 in. square and one thousand 18 in. square cement sidewalk tile, to Standard Stone Co., 88 Garfield St. $0.305 and $0.175 each respectively; and 1,500 sq.yd sandstone blocks, to Sandstone Quarries Co., 510 Plymouth Bldg., Minneapolis, $2.74 per sq.yd. Noted Feb. 4.

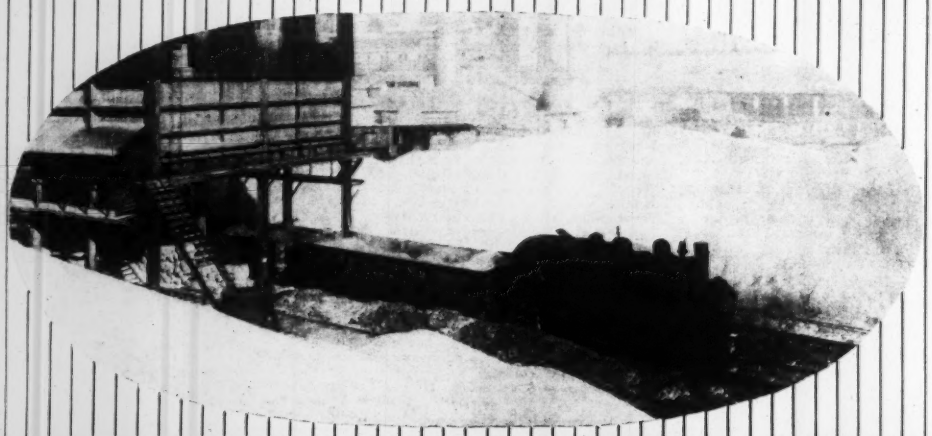
Road Oil, etc. — Clayton, Mo. — R. Jablonsky, engr., St. Louis Co., Court House, approximately 900,000 gal. 60% asphalt road oil, to Goldsmith-Mueller Co., 1225 Syndicate Trust Bldg., St. Louis, at $4.94 per gal.

Refined Paving Asphalt, etc. — Kingston, Ont. — Asphalt, refined paving to Imperial Oil Co., Imperial Oil Bldg., Toronto, $27 per ton (in packages); limestone dust, to Kirkfield Crushed Stone Co., Confederation Life Bldg., Toronto, $7.24 per ton; Portland cement, to W. B. Dalton & Sons, Kingston, $2.75 bbl.; sand, to Kingston Sand & Gravel Co., Kingston, $1.45 per cu.yd.; crushed stone, to J. M. Roddy, Kingston, $1.50 per cu.yd.; c.i. castings, manhole covers, grates, etc., to T. G. Bishop, Kingston, $4.80 per cwt.

Asphalt, etc.—Niagara Falls, Ont.—Asphalt for paving, to Imperial Oil Co., Imperial Oil Bldg., Toronto at $22.50 per ton; asphalt sand, to H. Willox, Niagara Falls, $1.50 per ton; stone dust, to J. E. Russel Co., Ltd., Reford Bldg., Toronto, $7.245 per ton less $0.20 each for sacks; and gravel, to Standard Gravel Co., Niagara Falls, $1.59 per cu.yd.

Paving Asphalt, etc. — Ottawa, Ont. — Paving asphalt, to Imperial Oil Co., 310 Percy St., $27.45 per ton in packages and $23 per ton in tank cars; asphalt filler, to Wright & Co., Inc., Catharine St., and T. S. Kirby Co., 213 Sussex St., $5.50 per ton; Portland cement, to Ottawa Fireproof Supply Co., 539 Sussex St., $0.62 per 100 lb.; castings, to T. Lawson & Sons, 376 Wellington St., iron and pipe castings, $3.90 and $6.85 per cwt. respectively; pig lead, to Betcherman Iron & Metal Co., MacKay St., $9.45 per cwt.; lead pipe, to Crane Ltd., 142 Sparks St., $12.50 per cwt.; gate valves, to Grinnel Co. of Canada, 370 Beaumont St., Montreal, Que., two 12 in. $63.77, to Builders Sales Ltd., 529 Sussex St., one 10 in. and two 8 in. $50 and $29 each respectively, and to Drummond McCall & Co., 160 Wellington St., six 3 in. and six 5 in. $8.75 and $17 respectively. Noted Feb. 18.

See proposal advertising on page 117, Advertising Section



PORTER LOCOMOTIVES

PORTER "better built" locomotives

Selecting the proper locomotive is entirely a question of performance, long life and ultimate costs. The obvious choice of the careful buyer can be only the dependable Porter—excelled by none.

Do you have our Bulletins?

H. K. PORTER COMPANY

Established 1865

PITTSBURGH, PENNA.

Positive gear drive. Four speeds in either direction. Sizes built, 3½ to 25 tons in weight.

Write for catalogue

Bethlehem Industrial and Electric Railway Products

Tee and Girder Rails; Machine Fitted Joints; Splice Bars; Hard Center Frogs; Hard Center Mates; Rolled Alloy Steel Crossings; Abbott and Center Rib Base Plates; Rolled Steel Wheels and Forged Axles; Tie Rods; Bolts; Tie Plates; Pole Line Material; Mine Ties; Light Rails; Switches; Switch Stands; Grimm Rail Clamps and Industrial Track Specialties.

Catalog Sent on Request

BETHLEHEM STEEL COMPANY, Bethlehem, Pa.

BETHLEHEM

PLYMOUTH

Gasoline Locomotives

Predominate in general construction work, quarries, sand, gravel and clay pits, mines, and industrial plant haulage. Made in 3 to 25 ton sizes and any track gauge. Always ready, no coal to haul, no licensed engineer. Write for catalogs.

THE FATE-ROOT-HEATH CO.
Plymouth, Ohio

SEVEN WORKS
CANADA-ALSAS-ELLIOT
HILLBURN, NEW YORK
NIAGARA FALLS, N.Y.
CHICAGO, ILLINOIS
EAST ST. LOUIS, ILL.
PUEBLO, COLORADO
SUPERIOR, WISCONSIN
NIAGARA FALLS, ONT.
ANCASTER

Ramapo Ajax Corporation

RAILWAY TRACK MATERIAL
Switch Stands, Frogs, Switches, Crossings, Guard Rails, Clamps, etc. for steam, mine and industrial railway tracks
MANGANESE WORK A SPECIALTY
SALES OFFICES AT ALL WORKS
Main Office HILLBURN, N.Y.

SPECIFY THE BEST
A Complete Line of the Highest Grade Track Materials
SWEET'S STEEL CO

FOR YOUR JOBS
Write for Descriptive Catalog.
WILLIAMSPORT, PA.

CARS—HAND, AUTOMATIC AND AIR DUMP CARS—TRACK ETC.
FOR ALL ENGINEERING AND INDUSTRIAL USES.
KOPPEL INDUSTRIAL CAR & EQUIPMENT CO.
KOPPEL — PENNA.
NEW YORK - CHICAGO
PITTSBURGH - SAN FRANCISCO
KOPPEL KOPPEL

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Clubhouse, New York, N. Y., New York Athletic Club having plans prepared, $7,500,000.

Church and rectory, New York, N. Y., Church of the Heavenly Rest having plans prepared, $2,000,000.

Paper mill, Monroe, La., Brown Paper Mill Co. having preliminary plans prepared for plant addition, $2,000,000.

Hotel, Dayton, O., Caldwell & Son having plans prepared, $2,000,000.

Paving and surfacing roads, Fairfield, Ia., Jefferson Co. voted bonds, total $1,308,000.

Hotel, Santa Monica, Calif., Miramar Hotel Co. having plans prepared, $1,250,000.

School, St. Louis, Mo., Preparatory Diocesan Seminary making preliminary plans, $1,000,000.

Grain elevator, Decatur, Ill., A. E. Staley Mfg. Co. having plans prepared, $1,000,000.

Hotel, Pasadena, Calif., Maryland Hotel Co. plans fireproof hotel, $1,000,000.

Road work, Newton, Ia., Jasper Co. plans bond election for road work, $1,000,000.

Hotel, New Orleans, La., Gulfport Com. headed by A. L. Jagoe plan hotel, $1,000,000.

Textile mill, Texarkana, Tex., M. E. Melton having preliminary plans prepared, $1,000,000.

Bids Wanted

Bridge, Augusta, Maine, May 12 (extended date) by State Hy. Dept., bridge over Kennebec, $3,000,000.

Dormitory, New York, N. Y., June 14, J. J. McGrath, pres. Bellevue & Allied Hospitals, $2,500,000.

Hotel, Chicago, Ill., W. Reichert, archt., taking bids for Flamingo Hotel Corp., $2,000,000.

Hospital, St. Cloud, Minn., Schmidt, Garden & Martin, archts., $1,500,000.

Apartment, Boston, Mass., The Embassy, Inc., taking bids, $1,250,000.

Freight depot and warehouse, Houston, Tex., May 1 by J. K. Sconland, div. freight agt., $1,000,000.

Court house, Shreveport, La., Caddo Parish, after June 1, $1,000,000.

Contracts

Administration, Massapequa, N. Y., Deauville Estate, Inc., to T. C. Desmond & Co., Inc., $4,500,000.

Store and office, Los Angeles, Calif., Sun Realty Investment Co. to J. W. McNeil Co., $4,000,000.

Office, New York, N. Y., Lower Bway Properties to C. L. Fraser, $2,500,000.

Hospitals, Chicago, Ill., H. A. Zender, Supt. Pub. Serv. Cook Co. to several contracts, total, $2,155,770.

Store, Chicago, Ill., Carson, Pirie, Scott & Co. to J. P. & J. W. O'Conner Co., $1,000,000.

Paper plant, Port Angeles, Wash., Washington Pulp & Paper Corp. to Kuppler & Son, $1,000,000.

Classified Index of Bids Wanted

Waterworks

Bids close — See Eng. News-Record

Apr. 30 Hawthorne (Ind. br. Paterson), N. J. ....Apr. 15
Apr. 30 New Market, Va. ....Mar. 25
May 1 Okmulgee, Okla. ....Apr. 29
May 3 Kewanee, Ill. ....Apr. 22
May 3 Jordan, Minn. ....Apr. 22
May 3 Haledon (mail Paterson), N. J. ....Apr. 22
Adv. Apr. 22 and 29.
May 4 Little Chute, Wis. ....Apr. 29
May 4 Asbury Park, N. J. ....Apr. 29
May 4 Long Island City, N. Y. ....Apr. 29
May 4 Union Beach (Br. Keyport), N. J. ....Apr. 29
Adv. Apr. 29.
May 5 Evergreen Park, Ill. ....Apr. 29
May 6 Evansville, Ind. ....Apr. 29
May 6 Quincy (Ind. br. Boston), Mass. ....Apr. 29
May 7 Nelson, Neb. ....Apr. 29
May 11 Perry, N. Y. ....Apr. 15
May 11 Cape May, N. J. ....Apr. 29
Adv. Apr. 29.
May 14 Oakland, Calif. ....Apr. 22
May 18 Hagerstown, Md. ....Apr. 22
Adv. Apr. 22 and 29.
May 19 Rye, N. Y. ....Apr. 29
Adv. Apr. 22-29.
May 21 Oakland, Calif. ....Apr. 22
May 29 Gulfport, Miss. ....Apr. 29

Sewers

Apr. 30 Boston, Mass. ....Apr. 22
May 3 South Portland, Me. ....Apr. 8
May 3 Kingston, Pa. ....Apr. 15
May 3 Jordan, Minn. ....Apr. 22
May 3 Cookeville, Tenn. ....Apr. 29
May 3 Royal Oak, Mich. ....Apr. 29
May 4 St. Paul, Minn. ....Apr. 29
May 4 Libertyville, Ill. ....Apr. 29
May 4 Long Island City, N. Y. ....Apr. 29
May 4 Toronto, Ont. ....Apr. 29
May 5 Miami Beach, Fla. ....Apr. 22
May 5 Arroyo Grande, Calif. ....Apr. 22
May 5 Los Angeles, Calif. ....Apr. 29
May 5 St. George, N. Y. ....Apr. 29
May 6 Bloomington, Ill. ....Apr. 8
May 6 Chicago, Ill. ....Apr. 29
May 6 Cleveland, O. ....Apr. 29
May 7 North Plainfield (mail Plainfield), N. J. ....Apr. 22
May 7 Lakewood, N. J. ....Apr. 29
Adv. Apr. 29.
May 10 Richmond, Va. ....Apr. 29
Adv. Apr. 29.
May 10 Wanamingo, Minn. ....Apr. 29
May 10 West Roxbury (sta. Boston), Mass. ....Apr. 29
May 12 Mt. Clemens, Mich. ....Apr. 29

Bids close — See Eng. News-Record

May 13 Oklahoma City, Okla. ....Apr. 22
Adv. Apr. 22 and 29.
May 18 Sacket Harbor, N. Y. ....Apr. 29
Adv. Apr. 22 and 29.
May 20 Dexter, N. Y. ....Apr. 29
Adv. Apr. 22 and 29.
May 20 Salisbury, Md. ....Apr. 29
May 21 La Grange, N. C. ....Apr. 29
Adv. Apr. 22 and 29.
May 25 Muskegon, Mich. ....Apr. 29

Waste Disposal

May 27 Galveston, Tex. ....Apr. 29

Bridges

May 1 Val Morin, Que. ....Apr. 8
May 3 Morgantown, W. Va. ....Apr. 8
May 3 Elizabeth, N. J. ....Apr. 29
May 4 Maine ....Apr. 8
May 4 North Carolina ....Apr. 29
May 5 Miami Beach, Fla. ....Apr. 22
May 5 Anamosa, Iowa ....Apr. 22
May 5 Chicago, Ill. ....Apr. 29
May 7 Dayton, O. ....Apr. 15
May 7 Missouri ....Apr. 29
May 7 Detroit, Mich. ....Apr. 29
May 8 Idaho ....Apr. 29
May 10 Jacksonville, Fla. ....Apr. 15
Adv. Apr. 15 to 29.
May 10 Lincoln, Calif. ....Apr. 29
May 10 Los Angeles, Calif. ....Apr. 29
May 10 Safety Harbor, Fla. ....Apr. 29
May 11 Louisiana ....Apr. 15
May 11 Bourg, La. ....Apr. 22
May 11 Washington ....Apr. 29
May 11 Grand Rapids, Mich. ....Apr. 29
May 12 Maine ....Apr. 29
May 12 Gooding, Idaho ....Apr. 29
May 15 Paducah, Ky. ....Apr. 22
Adv. Apr. 22 and 29.
May 15 Anderson, Ind. ....Apr. 8
May 17 Akron, O. ....Apr. 29
May 18 Texas ....Apr. 29
May 19 Minneapolis, Minn. ....Apr. 8
May 19 Pennsylvania ....Apr. 29
May 19 Akron, O. ....Apr. 29
May 21 Akron, O. ....Apr. 29
May 27 Louisiana ....Apr. 29
Adv. Apr. 29.

Excavation, Drainage, Irrigation, Levees, River and Harbor

May 3 Lancaster, N. Y. ....Apr. 22
May 4 Beaumont, Tex. ....Apr. 29
May 8 Sycamore, Ill. ....Apr. 22
May 8 DeKalb, Ill. ....Apr. 29
May 10 La Mesa, Calif. ....Apr. 29
May 12 New Madrid, Mo. ....Apr. 29

Bids close — See Eng. News-Record

May 24 Buffalo, N. Y. ....Apr. 22
Adv. Apr. 22 and 29.
June 1 Galveston, Tex. ....Apr. 29

Streets and Roads

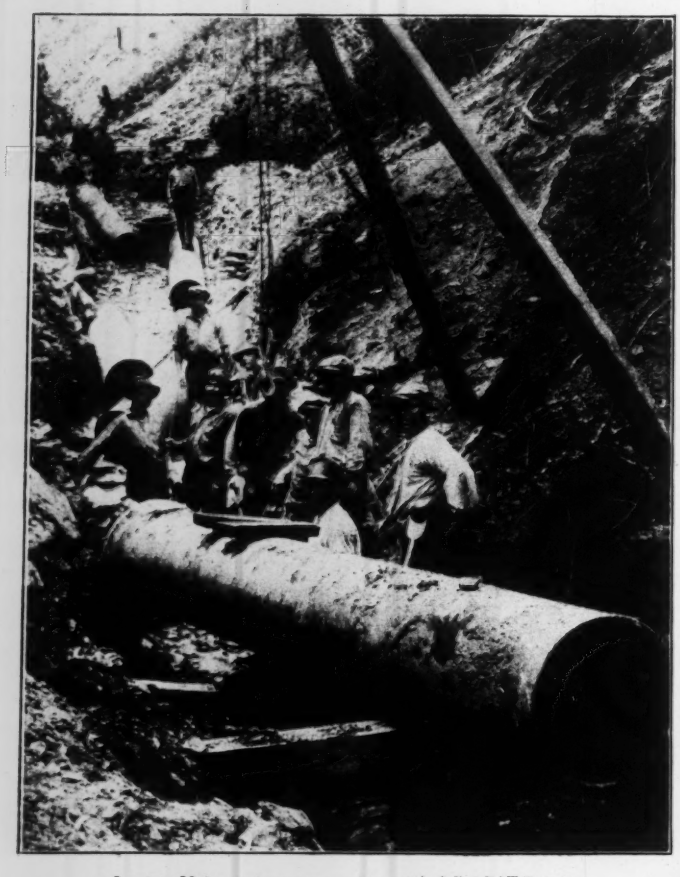
Apr. 30 Roxbury (Boston P. O.), Mass. ....Apr. 22
Apr. 30 Ohio ....Apr. 29
May 1 Akron, O. ....Apr. 22
May 1 Marion, O. ....Apr. 15
May 1 Saginaw, Mich. ....Apr. 29
May 3 Marshall, Minn. ....Apr. 22
May 3 St. Paul, Minn. ....Apr. 22
May 3 Fowler, Ind. ....Apr. 22
May 3 Pryor, Okla. ....Apr. 15
May 3 New Jersey ....Apr. 15
May 3 California ....Apr. 22
May 3 Martinez, Calif. ....Apr. 22
May 3 Marysville, Calif. ....Apr. 22
May 3 Corinth, Miss. ....Apr. 29
May 3 Huntington, W. Va. ....Apr. 29
May 3 Paintsville, Ky. ....Apr. 29
May 3 Ames, Ia. ....Apr. 29
May 3 Angola, Ind. ....Apr. 29
May 3 Bayonne, N. J. ....Apr. 29
May 3 St. Clairsville, O. ....Apr. 29
May 3 Galesburg, Ill. ....Apr. 29
May 3 Ames, Ia. ....Apr. 29
May 3 Hollis, Okla. ....Apr. 29
May 3 Elmhurst, Ill. ....Apr. 29
May 3 Springfield, Ill. ....Apr. 29
May 3 Point Clair, Que. ....Apr. 29
May 4 Colusa, Calif. ....Apr. 22
May 4 Rocky River, O. ....Apr. 22
May 4 Virginia ....Apr. 22
May 4 Long Beach, Miss. ....Apr. 22
May 4 Phila., Miss. ....Apr. 22
May 4 North Dakota ....Apr. 15
May 4 North Carolina ....Apr. 22
May 4 Washington ....Apr. 22
May 4 Port Angeles, Wash. ....Apr. 22
May 4 Massachusetts ....Apr. 22
May 4 Vincennes, Ind. ....Apr. 29
May 4 Maryland ....Apr. 22
May 4 New Brunswick, N. J. ....Apr. 29
May 4 West View (mail Pittsburgh), Pa. ....Apr. 29
May 4 Rush Springs, Okla. ....Apr. 29
May 4 Lucedale, Miss. ....Apr. 29
May 4 St. Louis, Mo. ....Apr. 29
May 4 Cleveland, O. ....Apr. 29
May 4 Tampa, Fla. ....Apr. 29
May 4 New York, N. Y. ....Apr. 29
May 4 Long Island City, N. Y. ....Apr. 29
May 4 Louisiana ....Apr. 29
May 4 Elizabeth, N. J. ....Apr. 29
May 4 Massachusetts ....Apr. 29
May 4 Toronto, Que. ....Apr. 29
May 4 Ft. Dodge, Ia. ....Apr. 29
May 4 Idaho Falls, Idaho ....Apr. 29

See proposal advertising on page 114, Advertising Section

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Jointing Water Mains



Laying 20-in. c. i. water mains with LEADITE joints thru rough and mountainous country.

Whether you are building an entirely new system or making an extension, laying large or small mains, you will save time, money and labor by using LEADITE.

In making a LEADITE joint NO CAULKING is necessary. Just yarn the joint and pour it full of molten LEADITE; it is an easy and quick operation.

LEADITE allows you to lay more pipe per day. This means getting water into the line without delay.

The quicker you get water to the consumer, the sooner the line produces revenue.

LEADITE makes the work easier on the men by eliminating much of the drudgery of pipe laying. You know what this means in the cold of winter and the heat of summer, and in bad trenches.

The varied applicability of LEADITE makes it the ideal material for jointing cast iron B. & S. water mains.

You will use LEADITE sooner or later as its advantages cannot help but appeal to you favorably.

Familiarize yourself with LEADITE now.

LEADITE does not corrode or rust.

Users know LEADITE makes a good joint.

LEADITE joints improve with age.

LEADITE has been successfully tested and used for over 30 years.

Thousands of miles of pipe jointed with LEADITE are in service.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.

1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids close		See Eng. News-Record
May 4	Jefferson, Ia.	Apr. 29
May 5	Bellingham, Wash.	Apr. 22
May 5	Florida	Apr. 22
May 5	Freehold, N. J. Adv. Apr. 22 and 29.	Apr. 22
May 5	North Dakota	Apr. 15
May 5	Eastman, Ga.	Apr. 22
May 5	Columbus, O.	Apr. 22
May 5	Chicago, Ill.	Apr. 29
May 5	Baltimore, Md.	Apr. 29
May 5	Idaho	Apr. 29
May 5	Toledo, Ia.	Apr. 29
May 5	Brooklyn, N. Y.	Apr. 29
May 5	Colorado	Apr. 29
May 5	Boston, Mass.	Apr. 29
May 5	Saskatchewan	Apr. 29
May 6	Creston, Ia.	Apr. 22
May 6	New Brunswick, N. J.	Apr. 15
May 6	North Dakota	Apr. 15
May 6	Pennsylvania	Apr. 15
May 6	Flemington, N. J.	Apr. 29
May 6	Birmingham, Ala.	Apr. 29
May 6	Idaho	Apr. 29
May 6	Chicago, Ill.	Apr. 29
May 7	North Dakota	Apr. 15
May 7	Pennsylvania	Apr. 15
May 7	Salem, N. J. Adv. Apr. 22 and 29.	Apr. 22
May 7	Russell, Kan.	Apr. 22
May 7	Fulton, N. Y. Adv. Apr. 22 and 29.	Apr. 22
May 7	Montgomery, Pa.	Apr. 22
May 7	New York Adv. Apr. 22 and 29.	Apr. 22
May 7	Wisconsin	Apr. 29
May 7	Missouri	Apr. 29
May 7	Cleburne, Tex.	Apr. 29
May 7	Noblesville, O.	Apr. 29
May 7	Tulsa, Okla.	Apr. 29
May 8	Idaho	Apr. 29
May 10	New Jersey Adv. Apr. 22 and 29.	Apr. 22
May 10	Akron, O.	Apr. 22
May 10	Kentucky	Apr. 22
May 10	California	Apr. 29
May 10	Decatur, Tex.	Apr. 29
May 10	San Diego, Calif.	Apr. 29
May 10	St. Clairsville, O.	Apr. 29
May 11	Maryland	Apr. 29
May 11	Washington	Apr. 29
May 11	North Dakota	Apr. 29
May 11	Massachusetts	Apr. 23
May 12	Glenville, W. Va.	Apr. 29
May 12	Mississippi	Apr. 29
May 12	Belvidere, N. J. Adv. Apr. 22 and 29.	Apr. 29
May 12	North Dakota	Apr. 29
May 12	Santa Rosa, Calif.	Apr. 29
May 13	North Dakota	Apr. 29
May 13	Texas	Apr. 29
May 14	North Dakota	Apr. 29
May 15	Anderson, Ind.	Apr. 8
May 17	Morgantown, W. Va.	Apr. 22
May 19	Alabama	Apr. 29
May 21	Alma, Kan.	Apr. 22
May 26	Delaware Adv. Apr. 29.	Apr. 29
June 1	Birmingham, Ala.	Apr. 22

Buildings—Commercial

Bids close		See Eng. News-Record
Apr. 30	Trenton, N. J.	Apr. 22
Apr. 30	Albany, N. Y.	Apr. 22
Apr. 30	Kerrville, Tex.	Apr. 22
Apr. 30	Boston, Mass.	Apr. 22
Apr. 30	Easton, Pa.	Apr. 15
Apr. 30	Pittsburgh, Pa.	Apr. 15
Apr. 30	Winnipeg, Man.	Apr. 29
May 1	Birmingham, Ala.	Apr. 1
May 3	Amarillo, Tex.	Apr. 29
May 3	Royal Oak (Ind. br. Detroit), Mich.	Apr. 29
May 4	Iowa City, Ia.	Apr. 1
May 4	Cambridge, Minn.	Apr. 22
May 4	Kenosha, Wis.	Apr. 29
May 4	Phila., Pa.	Apr. 29
May 5	Marysville, O.	Apr. 15
May 5	Council Bluffs, Ia.	Apr. 29
May 6	Thiells, N. Y.	Apr. 8
May 7	Granville, Pa.	Apr. 29
May 8	Frederick, Md.	Apr. 29
May 10	New Rochelle, N. Y. Adv. Apr. 22 and 29.	Apr. 22
May 11	New Britain, Conn.	Apr. 29
May 14	Farmington, Mo.	Apr. 29
June 14	New York, N. Y.	Apr. 29
May 15	Atlantic City, N. J.	Apr. 22
May 18	Columbus, O.	Apr. 15
May 20	Ohio	Apr. 15
May 25	Iowa City, Ia.	Apr. 15
July 1	Texarkana, Tex.	Apr. 22
Sept. 1	Vancouver, B. C.	Apr. 22

Buildings—Industrial

Bids close		See Eng. News-Record
Apr. 30	Phila., Pa.	Apr. 29
May 1	Canton, O.	Apr. 15
May 3	Phila., Pa.	Apr. 29
May 4	St. Louis, Mo.	Apr. 29
May 4	Phila., Pa.	Apr. 29
May 6	Madison, Wis.	Apr. 29

Buildings—Educational, Religious

Bids close		See Eng. News-Record
Apr. 30	Bellows Falls, Vt.	Apr. 22
May 1	Bridgeport, Conn.	Apr. 29
May 3	Montrose, N. Y.	Apr. 29
May 5	Van Nuys, Calif.	Apr. 29
May 6	Peoria, Ill.	Apr. 22
May 6	Corning, N. Y.	Apr. 22
May 6	West New York (Ind. br. Weehawken), N. J.	Apr. 29
May 6	Whittier, Calif.	Apr. 29
May 6	Brooklyn, N. Y.	Apr. 29
May 6	Louisburg, N. C.	Apr. 29
May 6	West Newton (Ind. br. Boston), Mass.	Apr. 29
May 10	Wichita Falls, Tex.	Apr. 29
May 10	Sparta, Wis.	Apr. 29
May 11	South Jacksonville (Ind. br. Jacksonville), Fla.	Apr. 22
May 11	Hillside (mail Elizabeth), N. J. Adv. Apr. 29.	Apr. 29
May 11	Gary, Ind.	Apr. 29
May 12	Baltimore, Md.	Apr. 29
May 17	Dayton, O.	Apr. 29

Federal Government Work

Bids close		See Eng. News-Record
Apr. 30	Cranes—Wash., D. C. Adv. Apr. 1 to 29.	Apr. 1
May 3	Chain—St. George, N. Y.	Apr. 22
May 4	Power Plant—Wash., D. C. Adv. Apr. 8 to 29.	Apr. 8
May 5	Dredging—South Boston (sta. Boston), Mass.	Mar. 25
May 6	Subdrainage—Douglas, Ga.	Apr. 22
May 7	Remodeling—San Francisco, Calif.	Apr. 22
May 10	Remodeling—Hamilton, O.	Apr. 22
May 11	Gate Chambers, etc.—Wash., D. C. Adv. Apr. 15 to 29.	Apr. 15
May 11	Road—Arizona	Apr. 29
May 12	Road—Alaska	Apr. 29
May 12	Levee—Vicksburg, Miss. Adv. Apr. 29.	Apr. 29
May 12	Apartment—Great Lakes (mail Waukegan), Ill.	Apr. 29
May 12	Mains, etc.—Annapolis, Md.	Apr. 29
May 12	Refrigerating Plant—New London, Conn.	Apr. 29
May 12	Tile Lining—Newport, R. I.	Apr. 29
May 13	Dredging—Indiana Adv. Apr. 29.	Apr. 29
May 14	Remodeling—Miami, Fla. Adv. Apr. 29.	Apr. 29
May 14	Remodeling—Miami, Fla.	Apr. 29
May 14	Pipe Line—Wash., D. C. Adv. Apr. 15 to 29.	Apr. 15
May 18	Recreation—Augusta, Ga. Adv. Apr. 15 to 29.	Apr. 15
May 18	Generators—Wash., D. C. Adv. Apr. 22 and 29.	Apr. 22
May 18	Curbs, etc.—Camp Custer (Br. Battle Creek), Mich.	Apr. 29
May 25	Needle Valves—Oregon Adv. Apr. 29.	Apr. 29

Unclassified

Bids close		See Eng. News-Record
Apr. 30	Platform Extensions—New York, N. Y.	Apr. 22
May 3	Culvert—New Rochelle, N. Y. Adv. Apr. 15 to 29.	Apr. 15
May 3	Boilers, etc.—Mason City, Ia.	Apr. 29
May 3	Lighting System—Peoria, Ill.	Apr. 29
May 5	Tunnel—San Francisco, Calif.	Apr. 1
May 6	Shore Protection — Massachusetts	Apr. 29
May 6	Standpipe and Elevated Tank—Quincy (Ind. br. Boston), Mass.	Apr. 29
May 13	Camp—Tullahoma, Tenn.	Apr. 22
May 14	Tunnel—Oakland, Calif.	Apr. 8
May 18	Signal System—Buffalo, N. Y.	Apr. 1
May 19	Fire Alarm System, etc.—Utica, N. Y. Adv. Apr. 29.	Apr. 29
May 28	Waterproofing Standpipe, etc.—Walpole, Mass. Adv. Apr. 29.	Apr. 29
May 31	Wharf—Mobile, Ala. Adv. Apr. 29.	Apr. 29

Materials

Bids close		See Eng. News-Record
May 1	Mixed Concrete—Cleveland, O.	Apr. 22
May 1	Pipe Culverts — Regina, Sask.	Apr. 29
May 3	Portland Cement—Fergus Falls, Minn.	Apr. 29
May 3	Asphalt—Montreal, Que.	Apr. 29
May 4	Gravel—Long Island City, N. Y.	Apr. 29
May 5	Road Oil—Hartford, Conn. Adv. Apr. 29.	Apr. 29
May 5	Drain Tile—Emmetsburg, Ia.	Apr. 29

News of New Work

Waterworks

Proposed Work

N. J., Matawan—Common Council, G. Gillis, chn. Water Com., plans new filter bed and repairing pumps at pumping station. $15,000. Engineer not selected.

Ga., Griffin — E. P. Bridges, city mgr., plans filtration plant, 2 deep wells and necessary equipment. $40,000.

Fla., Winter Park—Voted $100,000 bonds, extending water system.

La., Franklin — Making preliminary plans water supply from Gray Lake with line to here, and improving power plant, etc. $175,000. H. Mentz, Citizens Bank Bldg., Hammond, engr.

Tenn., Elizabeth—Mountain Spring Water Co., W. P. Dungan, secy., soon takes bids 10,000 ft. 10 in. and 336 ft. 6 in. Class "B" c.i. pipe, also 5 tons specials.

Mich., South Haven—Making plans water filtration plant. $150,000. Pearce, Greeley & Hansen, 6 North Michigan Ave., Chicago, Ill., engrs.

Ill., Olney—Plans waterworks plant, incl. pumping equipment and distribution mains. $100,000 upwards. E. Flad Co., 1312 Chemical St., St. Louis, Mo., engrs.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Kan., Emporia—Voted $105,000 bonds, 2 mi. 18 or 20 in. c.i. mains in various streets. F. Humes, Emporia, engr.

Kan., Ft. Scott—Made preliminary surveys, waterworks improvements. $75,000. R. Toles, city engr. S. A. Sulentic, 215 New England Bldg., Topeka, consult. engrs. This corrects report in Apr. 8 issue.

Kan., Ransom—Election May 3, $29,000 bonds, new waterworks. W. B. Rollins & Co., 512 Ry. Exch. Bldg., Kansas City, Mo., engrs. Noted Dec. 17.

N. D., Crosby—Voted $33,000 bonds, waterworks. O. Woolfrey, city aud. Noted Mar. 11.

N. D., Grand Forks—Making plans concrete reservoir. $30,000. L. J. Smith, city engr.

N. D., Jamestown—Voted $90,000 bonds, filtration plant. Noted Feb. 18.

Mo., Cassville—Defeated $25,000 bonds, water distribution system, deep well, 100,000 gal. tank, etc. Russell & Axon, 412 McDaniels Bldg., Springfield, engrs. Noted Jan. 28.

Mo., Seymour—Defeated $35,000 bonds, complete waterworks and distribution system. Noted Mar. 11.

Tex., Olmito (mail Brownsville)—See "Unclassified."

Okla., Chandler — Voted $80,000 bonds, new reservoir, wells, pumps, elevated tank and main extensions Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs. Noted Apr. 1.

Okla., Cherokee—Election May 4, $37,500 bonds, new engine, pump and equipment for present power plant. B. Davis, city clk.

Okla., Covington—Election May 3, $35,000 bonds, main extensions, deep well pumps and motors. C. A. Wood, Stillwater, engr.

See classified index on bids wanted on page 253

Architects
Engineers
Contractors
Public Officials

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Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

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Waterworks (Continued)

Wash., Bellingham — Water Dept. soon takes bids 2,000 ft. 20 in. c.i. mains and approximately 2 mi. 10 and 16 in. pipe in various streets. J. B. McMillan, supt.

Wash., Tacoma — See "Contracts Awarded."

Calif., Burbank—Voted $200,000 bonds, extending watermains and fire hydrants in various streets. Noted Feb. 25.

Calif., Redlands—Voted $525,000 bonds, additional water facility improvements. Noted Mar. 11.

Calif., San Jose—See "Unclassified."

Bids Desired

Mass., Quincy (Ind. br. Boston)—May 6, by Dept. Pub. Wks., excavating, backfilling trench and 7,600 ft. c.i. pipe from Beale to Adams Sts. $15,000 bonds. J. J. Cosgrove, comr.

N. Y., Dexter—See "Sewers."

N. Y., Long Island City—May 4, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains, etc. in 58th Rd., Commonwealth Blvd., Grand Central Parkway, Polk, 54th, 32nd and 89th Aves., Orville, Pansy, Sandol, 166th, 195th and 210th Sts., here.

N. Y., Sacket Harbor—See "Sewers."

N. J., Asbury Park — May 4, by City Comn., 2 wells about 1,135 ft. deep, 15 in. and 10 in casings, etc. Former bids rejected. A. G. King, city clk. Noted Mar. 18.

N. J., Bayonne—See "Streets and Roads."

N. J., Cape May—May 11, by Mayor and City Comrs., waterworks pumping station, 2.5 m.g. capacity, Contrs. 1, 2 and 3. Remington & Vosbury, 509 Cooper St., Camden, engrs.; adv. E. N.-R. Apr. 29.

N. J., Union Beach (br. Keyport)—May 4, by Water Com. Boro Council, A. Cowling, clk., Union Fire Co., Union Ave., approximately 16 mi. 4- to 12-in. pipe, etc. C. Potts, 30 Church St., New York City, consult. engr.; adv. E. N.-R. Apr. 29.

N. C., Liberty—Spoon & Lewis, consult. engrs., 407-8-9 Amer. Bank Bldg., Greensboro, taking bids drilling wells, here, for City.

La., Agurs — T. McCarthy, clk., taking new bids water distributing system. $35,000. Former bids rejected. C. D. Evans, 414 Levy Bldg., Shreveport, engr. Noted Apr. 15.

Miss., Gulfport—May 29 (extended date), by Mayor and Bd. City Comrs., 2 direct connected motor driven centrifugal pumps delivering 1,500 and 1,000 g.p.m. against head of 115½ ft., also pipe, etc. Noted Feb. 18.

Ind., Evansville—May 6, by Bd. Trustees Water Dept., 5,000 ft. 12 in., 5,000 8 in. and 10,000 6 in. c.i. pipe, etc., f.o.b. Evansville.

Ill., Evergreen Park—May 5, by Village Clerk, 6- to 12-in. c.i. mains in various streets. $170,000. E. Hancock Eng. Co., 2047 Ogden Ave., Chicago, engrs. Noted Jan. 28.

Wis., Little Chute—May 4, by M. Van Hoof, village clk., 10,230 ft. 6- to 10-in. mains in various streets. To exceed $15,000. McMahon & Clark, Menasha, engrs. Owner furnishes pipe.

Neb., Nelson—May 7, by J. J. Pfeiffer, city clk., 2,608 ft. Class B c.i. or De Lavand "150" pipe; two 250 g.p.m. vertical and one 1,000 g.p.m. horizontal centrifugal pump d.c. to 3 phase, 220 volt motors remote control; concrete dam spillway and silt line, etc. $35,000. Henningson Eng. Co., Natl. Bank Bldg., Omaha, engrs.

Okla., Okmulgee—May 1, by Bd. City Comrs., at office A. Baker, Comr. Finance, new water supply, incl. dam, etc. L. F. Harza, 919 Monadnock Bldg., Chicago, Ill., engr. Noted Apr. 22.

Calif., La Mesa—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

B. C., South Vancouver—See "Contracts Awarded."

Bids Received

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, Apr. 20, Contr. 811, from A. P. Smith Mfg. Co., 111 Norman St., East Orange, N. J., $18,375; Contr. 812, from U. S. Cast Iron Pipe & Fdry. Co., 142 Chestnut St., $7,266; Contr. 816, from Republic Flow Meters Co., Real Estate Trust Bldg., $2,760; also Contrs. 815 and 817, from C. M. Brown & Co., Lafayette Bldg., $20,177 and $1,596 respectively. Noted Apr. 15.

O., Upper Arlington (Columbus P. O.)—See "Sewers."

Wis., Milwaukee—Central Bd. Purchases, Apr. 15, from U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, Ill., 1,860 tons plain, straight water pipe at $46.90 per ton, 114.40 tons lugged $66.90 and 58.42 tons special castings $160.

Contracts Awarded

R. I., Providence—Water Bd., City Hall, superstructure gatehouse of Scituate Dam and siphon chamber of Scituate Aqueduct, in Scituate, to O. D. Purrington & Co., Industrial Trust Bldg., $55,419. Noted Apr. 8.

Conn., New Britain—Bd. Water Comrs., 4,300 ft. 12 in. c.i. mains in East Main St., Contr. L, to H. W. Golden & Son, Troy, N. Y., $9,184; 8,250 ft. in East St., Contr. K, to A. Di Marco, 61 East Main St., Plainville, $14,785 and 4,700 ft. in East Ellis and Stanley Sts., Contr. J, to M. Marinello, 156 Lake Ave., Bristol, $7,350. Grand total $31,319. Noted Mar. 18.

N. J., Trenton—Water Dept., 275 tons 4 and 6 in. c.i. pipe, to U. S. Cast Iron Pipe & Fdry. Co., 71 Bway., New York City, at $54 and $50 per ton respectively. Noted Apr. 1.

S. C., McCormick—Waterworks, to Tucker & Laxton, Realty Bldg., Charlotte, N. C. Noted Apr. 15.

Fla., Brooksville—Extending waterworks, to W. G. Fritz & Co., 258 Valley Rd., West Orange, N. J., $56,673.

O., Massillon — Extending mains in 25 streets, to D. E. Bickel, Massillon, $40,000-$45,000. Engrs. est. $40,000.

Mich., Melvindale (Dearborn P. O.) — For 1,200 ft. 8- to 12-in. c.i. mains in Dix Ave. and Pepper Rd., to Coolsaet Bros., 12734 Michigan Ave., Detroit, $45,000.

Wis., Centuria—C. Anderson, city clk., 8,000 ft. 6 and 8 in. c.i. mains, etc., in various streets, to Republic Co., 427 Home Invst. Bldg., Albert Lea, Minn., $14,000; and 75,000 gal. elevated steel tank, to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill., $7,700. Noted Apr. 1.

Minn., Jeffers—For 9,400 ft. 4 and 6 in. c.i. mains, 30,000 gal. steel tank on 100 ft. tower, pumping equipment, etc., to Bruce, Bickelhaupt Co., 241 Insurance Exch. Bldg., Des Moines, Ia. Noted Feb. 4.

N. D., Fargo—A. R. Watkins, city aud., mains in various streets, to Nordland Constr. Co., Starbuck, Minn., $21,586.

Mo., Forsythe—Concrete reservoir, pumping plant, 75,000 gal. tank on tower and distribution system, to W. E. Plummer, Union Natl. Bldg., Springfield. Engrs. est. $15,000. Noted Mar. 18.

Mo., St. Louis—Bd. Pub. Wks., 208 City Hall, brick settings for four 460 hp. boilers, to D. Seeger, 1317 Ry. Exch. Bldg., $13,875 engrs. est. $15,000, constructing and installing sheet metal breeching in boiler room, to L. J. Kickham, Boiler & Sheet Iron Wks., 2515 North 25th St., $3,490 engrs. est. $6,000. Noted Apr. 22.

Wash., Prosser—Rein.-con. reservoir, to C. Power, Spokane, and distribution system, to Wilson & DeBlasio, Yakima, $66,187. Engrs. est. $80,000.

Wash., Tacoma—City will replace 2,600 ft. 48 in. wood stave pipe line with 52 in. pipe, ⅜ in. copper bearing flange steel plate, by day labor. $66,000.

B. C., South Vancouver—Will install 4 mi. 4 in. mains in various streets, by day labor. $30,000. E. D. Todd, Municipal Hall, engr.

B. C., Vancouver—W. McQueen, city clk., one hundred 6 in., 50 eight in. and 50 twelve in. valves, to Jenkins Bros. Ltd., 103 St. Remi St., Montreal, $6,144; 20,000 ft. 6- to 12-in. c.i. pipe, light centrifugal cast to Evans, Coleman & Evans, foot of Columbia Ave., $22,539; and heavy pipe, to Grinnell Co. Ltd., 1132 Hamilton St., $32,500. Grand total $61,183. Noted Mar. 25.

Sewers

Proposed Work

N. J., Interlaken (mail Allenhurst)—Boro and Mayor plan sanitary sewers in Bridlemere Ave. $30,000. Engineer not selected.

Fla., Winter Park—Voted $235,000 bonds, sewerage system.

Miss., McComb—No election held Apr. 9, $40,000 bonds, disposal plant and sewer extensions. Date for same not set. H. A. Mentz, Citizens Bank Bldg., Hammond, La., engr. Noted Apr. 8.

La., Bunkie — Election May 6, $160,000 bonds, sewerage system. H. A. Mentz, Citizens Bank Bldg., Hammond, engr. Noted Dec. 10.

Mich., Charlevoix—Making plans sewerage system and disposal plant. Pearce, Greeley & Hansen, 6 North Michigan Ave., Chicago, Ill., engrs.

Mich., Detroit — Frishkorn Real Estate Co., 301 West Fort St., making plans 10,000 ft. 12- to 48-in. vitr. or concrete sewers, etc., in Grand Dale Gardens, Redford Twp. $25,000. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., engrs.

Mich., Muskegon Heights (Ind. br. Muskegon) Made plans and election about May 1 $150,000 bonds, vitr. clay storm sewers, etc. in Terrace, Riverton, and Oakwood Sts. R. E. Miles, City Hall, engr.

Mich., Royal Oak (Ind. br. Detroit)—Linwood Realty Co. made plans 12,000 lin.ft. 12- to 18-in. vitr. clay sewers in Twelve Mile Rd. and Campbell Ave., Red Run Golf Subdivision. M. L. Brown & Son, 407 Capitol Theatre Bldg., Detroit, engrs.

Kan., Cedar Vale—Making plans sewerage system. $75,000. Devlin Eng. Co., Bitting Bldg., Wichita, engrs.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, made plans East Rock Joint Sewer, 7,920 ft. 12- to 66-in. vitr. clay, brick or segmental tile, 1,590 ft. 96 in. and 2,620 ft. 108 in. brick or 8 ft. 6 in. and 9 ft. 6 in. rein.-con. horseshoe pipe; Glaise Creek Sewer 25, 1,400 ft. 10- to 18-in. vitr. clay pipe, etc.; and Glaise Creek Sewer 26, 12,250 ft. 8- to 48-in. vitr. clay, brick or segmental tile pipe. W. W. Horner, 300 City Hall, engr.

Tex., San Saba—Recent election $60,000 bonds, declared null and void, sewer improvements. Municipal Eng. Co., 1107 Athletic Club Bldg., Dallas, engrs. Noted Mar. 18.

Okla., Covington—Election May 3, $35,000 bonds, extending sewers in all streets. C. A. Wood, Stillwater, engr.

Okla., Guymon — Making plans 7 mi. sewerage system. $61,000. F. E. Devlin, Bitting Bldg., Wichita, Kan., engr.

Wash., Anacortes—Making plans sewers in 20 blocks various streets. $45,000.

Calif., Fullerton — Plans election $62,500 bonds, outfall sewer extension.

Calif., Orange — Plans election $60,000 bonds, outfall sewer in various streets.

Calif., Santa Anna—Orange Co., election May 19, $379,000 bonds, outfall sewer to connect several towns. Burns & McDonnell Eng. Co., 415 Marsh Strong Bldg., Los Angeles, engrs.

Calif., Sonoma—Defeated $35,000 bonds, sewer improvements.

Bids Desired

Mass., West Roxbury (sta. Boston)—May 10, by Dept. Pub. Wks., Boston, sewerage works in Stony Brook Sect. 10, and Rosindale Branch, here. $75,000 bonds. J. H. Sullivan, comr.

N. Y., Dexter—May 20, by Bd. Trustees, Engine House, sewer and water systems. W. T. Field, Watertown, consult. engr.; adv. E. N.-R. Apr. 29.

N. Y., Long Island City—May 4, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., outlet barrell stave sewer, and necessary pumping facilities in connection therewith, at westerly end 5th Ave. near 10th St., Flushing Bay, College Point, also pumping station and necessary connections between existing sewer and 16 in. W. S. P. force main.

N. Y., Rye—May 19, by Bd. Village Trustees, Municipal Hall, extending sewerage system. J. A. Ehler, Municipal Hall village engr.; adv. E. N.-R., Apr. 29.

N. Y., Sacket Harbor — May 18, by Bd. Village Trustees, Engine House, sewer and waterworks. W. T. Field, Watertown, consult. engr.; adv. E. N.-R. Apr. 29.

N. Y., St. George—May 5, by J. A. Lynch, pres. Richmond Boro, Boro Hall, sanitary sewer in Shaughnessy Lane from Tompkins Ave. to point about 100 ft. east of Charles St.

N. J., Lakewood — May 7, by Lakewood Twp. Com., G. Garon, clk., constructing North Drainage Area Storm Sewer and storm sewer in Clifton Ave. H. C. Shinn, Municipal Bldg., twp. engr.; adv. E. N.-R. Apr. 29.

Md., Salisbury—May 20, at office Salisbury Water & Sewer Comn., constructing sewers, Contr. 18. F. H. Dryden, ch. engr.; adv. E. N.-R. Apr. 29.

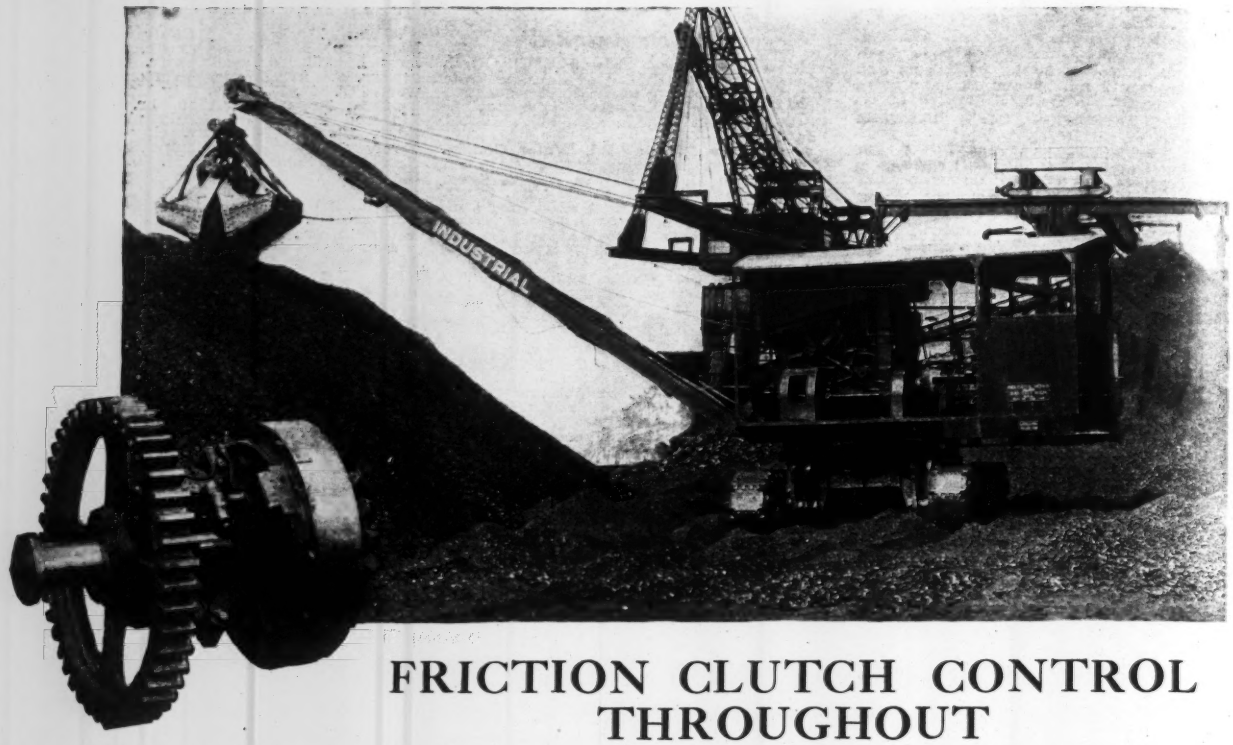
N. C., La Grange — May 21, by Town, sewerage system. J. B. McCrary Engr. Corp., Atlanta, Ga., engrs.; adv. E. N.-R. Apr. 29.

Va., Richmond—May 10, at office R. K. Compton, dir. Pub. Wks., combined sanitary and storm sewers in various streets; adv. E.N.-R. Apr. 29.

Tenn., Cookeville—May 3, by J. E. Owen, city clk., sewerage system, 192 ft. 10- to 18-in. c.i. pipe, 12,900 ft. 8- to 18-in. vitr. pipe, 100 cu.yd. loose rock and 500 cu.yd. solid rock, excav., etc. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted May 28.

O., Cleveland—May 6, by City, pumping station substructure, concrete, 32 ft. deep; 12 x 19 concrete with two 100 g.p.m. ejectors, Barberton Ave. Creek. To exceed $25,000. R. Hoffman, City Hall, engr.

Mich., Mt. Clemens — May 12, at office E. D. Miller, Macomb Co. Drain Comr., 7½ mi. sewer in Nine Mile Rd. with disposal plant, manholes, etc.; adv. E. N.-R. Apr. 29.



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Sewers (Continued)

Mich., Muskegon — May 25 (extended date), by E. R. Cockerill, supt. Muskegon Co. Drains, drains Ruddiman Creek Valley. $75,000-$100,000. M. M. Buck, Union Bank Bldg., Muskegon, engr. Noted Apr. 8.

Mich., Royal Oak (Ind. br. Detroit)—May 3, by R. J. Whitney, city mgr., 9,580 lin.ft. 10- to 30-in. sewers in Dist. 10; 7,448 ft. 10- to 42-in. in Dist. 11; and 8,240 ft. 10- to 30-in. in Dist. 12. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Ill., Chicago—May 6, by H. E. Wallace, clk. Sanitary Dist. of Chicago, Broadview-Bellwood Intercepting Sewer, 10,890 ft. concrete sewers 5 ft. high and 3¼ ft. internal width, in Roosevelt Rd. from Des Plaines River to Pusheck Rd., and 2,650 ft. sewer 2¼ in. internal diam. in Pusheck Rd. from Roosevelt Rd. to Harrison St. J. M. Whalen, vice chn.

Ill., Chicago—May 6, by Bd. Trustees North Side Sewage Treatment Wks., Div. Q, main building and grit chamber superstructure, incl. 21,000 cu.yd. excav., 6,300 cu.yd. concrete, 650,000 lb. reinforcing, 1,222,000 lb. miscellaneous steel, 825,000 lb. c.i. pipe specials and 1,130,000 cu.ft. building structures, north of Howard St. and west of Chicago & Northwestern R.R. tracks, at Niles Center.

Ill., Libertyville—May 4, by Bd. Local Impvts., sewage disposal plant and outfall sewers in various streets, incl. 12- to 24-in. concrete pipe, etc. Kelker & DeLeuw, 111 West Washington St., Chicago, engrs. Noted Mar. 18.

Minn., Manamingo—May 10, by H. Loken, village clk., 11,500 ft. 8 and 10 in. sewers, etc. in Dist. 1. $25,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, Ia., engrs. This corrects report in Apr. 22 issue.

Minn., St. Paul—May 4, by A. E. Eggert, city purch. agt., constructing Trout Brook Sewer, Contr. A. $600,000. G. M. Shepard, city engr.

Mo., St. Louis—See "Streets and Roads."

Calif., Los Angeles—May 5, by Bd. Pub. Wks., constructing Sect. 28, North Outfall Sewer between 12th, Flower, 9th and Hoover Sts. To exceed $25,000. J. C. Shaw, City Hall, engr.

Ont., Toronto — May 4, by T. Foster, mayor, City Hall, 8 and 12 in. vitr. tile sewer in Heath and Duchess Sts., also lane west of Dovercourt Rd.; and brick or concrete sewer in Old Orchard Grove and Yonge Blvd. $100,000. R. C. Harris, City Hall, engr.

B. C., South Vancouver—See "Contracts Awarded."

Bids Received

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, Apr. 21, repairing sewer basin culverts in various streets, from Manmill Constr. Co., 2035 Douglass St., $16,520. Noted Apr. 15.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Apr. 21, temporary sewer in (1) Riker Ave. (2) Hazen St. (3) Calamus Ave. (4) Pacific St. (5) Polk Ave. (6) 37th St. (7) Leavitt St. (8) 91st Ave., from J. Gallo, 30th and State Sts., Flushing, (1) $7,614; from Kennedy & Smith, 93 Bradford St., Flushing, (2A) $234,382 (2b) $219,980 (5A) $167,939 (5B) $143,814 (8A) $36,010 and (8B) $36,400; from Muccinni & Decker, 6102 18th Ave., Brooklyn, (3A) $93,023; from J. H. Johnson, 37 Britton Ave., Elmhurst, (3B) $84,541; from Greenough Koppinger Inc., Flushing, (4) $3,581; from C. Pettrancca, 737 Kathleen Court, Brooklyn, (6A) $43,794 (6B) $37,887; from Welch Bros. Contg. Co., Queens St., Astoria, (7A) $44,915 (7B) $45,253; from O'Brien & Kurth, Inc., 8625 137th St., Jamaica, (8) $5,471. Noted Apr. 15.

N. J., Hasbrouck Heights (Ind. br. Hackensack) — Mayor and Boro Council, J. P. Breeze, clk., 29,000 lin.ft. 4 in. vitr. sewers, etc. between curb line and main sewers in various streets, from LoProto Constr. Co., 50 Main St., Lodi, $26,212. Noted Apr. 1.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, Apr. 21, from A. Mattia, 310 North 65th St., branch sewers in Almond St. $20,866, from A. Perna & Son, 752 South 10th St., Bensalem St. $13,053, from A. DiSandro & Son, 3906 North 5th St., Bingham St. $51,667, from J. Moss, 1652 Wakeling St., Edgemont Ave. $1,246, and Salmon St. $1,096, from Higgins & Reilly, Real Estate Trust Bldg., Elmwood St. $36,096, from Garson & Garson, 5031 Brown St., 49th St. $44,071, from J. Hastie, 5720 Vergman Ave., Glenrock Ave. $5,039, and Tyson St. $19,401, from J. J. McHugh, 1617 Race St., Homer St. $10,304, and main sewers in Aramingo St. $27,872; from A. Casciato, 1602 Wharton St., branch sewer in Jackson St. $5,341, and Marsden St. $6,209, from P. and A. J. Ellis, 4th and Wyoming Sts., Large St. $12,770, and main sewer in 8th St. $46,522; from Perna Eng. & Constr. Co., 362 North 65th St., branch sewer in N St. $18,159, from A. Frunzi, 513 High St., Philelena St. $13,278, from F. T. Buckins, 4050 Kensington Ave., 78th Ave. N. $16,968; and from O'Neill Co., 127 East Mermaid Lane, main sewer in Mansfield St. $159,661, and Gillespie St. $141,599.

O., Upper Arlington (Columbus P. O.)—N. R. Copeland, village clk., Apr. 7, 26,900 ft. 8 and 10 in. sewers in Baldridge, Suffolk, Tewsburg, Beverly, Coventry, Chatfield, Berkshire, Collinswood, Andover, Coventry, Henthorne, Parkway, Kent, York and Wilshore Rds., from Ames Bros., 1777 Coventry Rd., $39,870; also 6,130 ft. 6- to 12-in. c.i. mains in above roads except Tewsbury Rd., from A. F. Riley, 1220 Esper St., Columbus, $10,705. Noted Apr. 1.

Minn., St. Paul—A. E. Eggert, city purch. agt., Apr. 13, approximately 4,400 ft. 12- to 42-in. sewers, etc., in Summit Ave. between Cretin and Dewey Aves., from O'Neil & Preston, 608 Exch. Bank Bldg., $37,000.

Contracts Awarded

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, system temporary sanitary sewers in New Dorp, Oakwood, and vicinity and at pumping station near Oakwood Beach, to Merritt, Chapman & Scott Corp., 17 Battery Pl., New York City, $50,521; also sewage treatment and pumping plant west of Ocean Ave. near Oakwood Beach, to Moharg Barton Co., Inc., 1328 Bway., New York City, $96,859. Noted Apr. 15.

N. J., Oakhurst—Interlaken Boro Sewerage Dists. 1, 2, 3 and 4, Ocean Twp., Monmouth Co., settling tank and sea outlet into Atlantic Ocean, at Lock Arbour, here, to T. Proctor, 212 North 5th Ave., Long Branch, $36,952. Noted Apr. 22.

N. J., Pleasantville—Common Council, c.i. sewer across meadows, to D. S. Bader, 107 South Richards St., Atlantic City, $35,485.

Md., Baltimore—Bd. Awards, Dead Run Trunk Sewer, Sect. 1, in Sewer Dist. G-7, Contr. 228, to F. Angelozzi, Springlake Way and St. Dustans Rd., $28,704. Noted Apr. 15.

Md., Baltimore—Bd. Awards, sludge drying beds 11 to 14 (inclusive), to Adams & Marino, Old Town Natl. Bank, $129,258. Noted Apr. 22.

S. C., McCormick—Sewerage system, to Tucker & Laxton, Inc. Realty Bldg., Charlotte, N. C. Noted Apr. 15.

Fla., Brooksville — Sewerage system, to Bennett & Crane, Brooksville, $80,076.

La., Baton Rouge — See "Streets and Roads."

O., Akron—W. F. Peters, dir. Pub. Serv. 6,600 ft. 8- to 30-in. vitr. clay sewer in Glenwood Ave. et al., to S. Erslan & Co., 370 Bowery St., $23,840. Engrs. est. $35,900. Noted Mar. 25.

O., Ashtabula — Ashtabula Co., Sewer Dist. 2, Impvt. 3, Sect. A, 1,225 cu.yd. excav., 505 cu.yd. concrete, 48,000 lbs. reinforcing, etc., and Sect. B, 1,350 ft. 24 in. vitr. tile pipe outfall sewer, 1,350 ft. 24 in. vitr. tile pipe covered with concrete, 265 ft. 24 in. storm sewer, to Koski Constr. Co., $32,077 and $17,564 respectively; and Sect. C, c.i. pipe, to L. A. Wells Constr. Co., 30 Euclid Arcade, Cleveland, $23,995. Grand total $73,636. Noted Mar. 18.

O., Rocky River — For 22,000 ft. 8- to 24-in. vitr. tile sewer line and curb connections in Detroit Rd., to Randall & Cooper, Lorain, $84,976.

Mich., Melvindale (Dearborn P. O.)—For 2,377 ft. 42 in. rein.-con. sewer in Sect. 1, and 3,375 ft. 36 in. and 852 ft. 33 in. rein.-con. sewer in Sect. 2 Sanitary Trunk Sewer, to Callahan & Gross, 2631 Woodward Ave., Detroit, $105,600.

Ill., Chicago — Bd. Local Impvts., Room 207, City Hall, sewers in South Bishop St. from West 95th to West 97th Sts., in South Millard Ave. from West 51st to West 55th Sts., 97th St. from Vincennes to Winston Aves., South Oakley and South Irving Aves. from West 103rd to West 105th Sts., South Claremont Ave. from West 103rd to West 107th Sts., South Monroe, South Lincoln and South Winchester Aves. from West 79th to West 83rd Sts., West 83rd St. from South Lincoln to South Robey Sts., Harper and Dorchester Aves. from East 87th to East 90th Sts., Blackstone and Dante Aves. from East 87th to East 91st Sts., East Kenwood Ave. from East 87th to East 89th Sts., Kimbarg Ave. from East 87th to East 88th Sts., East 88th St. from Kenwood to Kimbarg Aves., East 89th St. from Dorchester to Kenwood Aves., and East 90th St. from Dante to Dorchester Aves., to Dignan & O'Brien, in Ellwood St. from Birchwood to Jarvis Aves., West 103rd St. from South Wood St. to Longwood Dr., Imperial Ave. from Oshkosh to Ozanam Aves., Ottawa Ave. from Imperial St. to Ozanam Ave., Oshkosh Ave. from Avondale to Ozanam Aves., and Oxford Ave. from Avondale to Osage Aves., to Donato & Benedetto; in Greenshaw St. from South Keeler to South Kildare Aves., Montvale Ave. from Vincennes Ave. to Davol St., Fitch Ave. from North California to North Washtenaw Aves., Estes and Greenleaf Aves. from North California to North Rockwell Sts., to D. Cuzzone, 711 Farquer St.; in South State St. from East and West 79th to East and West 91st Sts., to F. De Christoforo.

Ill., Chicago—See "Streets and Roads."

Ia., Audubon—J. L. Rippey, city clk., sewage disposal plant and 12,000 ft. 18 in. outlet sewers in various streets, to Weighton Constr. Co., Audubon, $41,687. Noted Mar. 4.

Ark., Paris—Comrs. Sewer Dist. 2, Logan Co., 51,893 ft. 8- to 20-in. vitr. clay sewers, etc. in various streets, to R. W. Langston Co., Springfield, Mo., $67,114. Noted Mar. 11.

Calif., San Francisco—Bd. Pub. Wks., 2,998 ft. 5 ft. 6 in. and 76 lin. ft. 2 ft. 3 in. rein.-con. sewer in 43rd Ave. (Sunset Dist.), to C. B. Eaton, 715 Ocean Ave., $60,985. Noted Mar. 25.

B. C., South Vancouver—Will construct sewer in Prince Albert St. between 32nd and 41st Aves. and between Fraser and Ross Sts., by day labor. $114,000. E. D. Todd, Municipal Hall, engr.

Waste Disposal

Bids Desired

Tex., Galveston — May 27, by Bd. City Comrs., brick, tile and rein.-con. incinerator, 80 ton 24 hr. rated capacity. $85,000. C. A. Holt, city engr.

Bids Received

Calif., Los Angeles—Bd. Pub. Wks., Apr. 7, (a) 200 ton or (b) 400 ton per 12 hr. refuse incinerator, East 26th St., in Vernon, from Hiler Eng. & Constr. Co., 122 Livingston St., Brooklyn, New York, N. Y., (a) $189,000 (b) $318,000. Noted Mar. 25.

Contracts Awarded

N. J., Irvington (br. Newark)—Bd. Town Comrs., W. H. Jamouneau, town clk., Town Hall, 2 story, brick, steel and concrete incinerator, Coit St. near Paine Ave. to DeCarie Incinerating Co., 342 Madison Ave., New York City, $124,200.

Bridges

Proposed Work

N. J., Salem—Salem Co. plans Penn's Neck Bridge, 380 ft. long, 30 ft. wide, bascule lift type, over Salem River. $350,000. H. C. Keasbey, Salem, engr.

Ga., Atlanta—See "Streets and Roads."

Michigan — State Hy. Dept., Lansing, making plans 260 ft. steel bridge over Cedar Creek Channel-Muskegon River, Muskegon Co. $75,000. A. E. Melick, c/o owner bridge engr.

Mich., Traverse City — Plans Boardman River bridge, on East 8th St. $30,000.

Wis., Madison—Making plans rein.-con. and steel overhead bridge over Chicago and Northwestern R.R. tracks, on Pond St. $60,000. E. E. Parker, City Hall, engr.

Tex., Albany—See "Streets and Roads."

Tex., Eastland—See "Streets and Roads."

Tex., Groveton—See "Streets and Roads."

Tex., La Grange — See "Streets and Roads."

Tex., Uvalde—See "Streets and Roads."

Wash., Longview—City Council created L. I. D. 19 and 20 consisting of new bridge over Cowlitz River, $264,000; approach at each end, $110,000; and subway under Longview, Portland & Northern R.R. tracks, $66,000.

Calif., Fullerton—Plans election $30,000 bonds, constructing 3 bridges in various sections.

Bids Desired

Maine—May 12 (extended date), by State Hy. Dept., Augusta, bridge over Kennebec River in Bath and Woolwich. $3,000,000. J. H. L. Waddell, 150 Bway., New York City., engr. Noted Apr. 8.

N. J., Elizabeth — May 3, by Bd. Freeholders Union Co., Court House, bridges over stream on Larned Rd. in Summit; at Oak St. and 5th Ave. Boro Garwood; at Elm St. near Colfax Ave., Roselle Park; Kimball Ave. near Mountain Ave., Westfield, and over West Brook, Munsell Ave. Linden; also repairing bridges over Cedar Brook, at Stell Ave. Plainfield, Tooker Ave.

TO BE skid-proof and protect heavily burdened draft-horses—to be moisture-proof and not absorb oil, grease or water—to be wear-proof and avoid continuous repairs and frequent replacement—a driveway in industrial service should be of vitrified brick, asphalt-filled.

The fire-toughened surface of vitrified brick resists traffic almost indefinitely. The asphalt filler makes the wearing surface water-tight, flexible and quiet under impact and easy to take up and relay with practically 100% salvage value. And the surface is always skid-proof and non-absorbent.

VITRIFIED Brick PAVEMENTS

NATIONAL PAVING BRICK MANUFACTURERS ASSOCIATION, ENGINEERS BLDG., CLEVELAND, OHIO

Bridges (Continued)

near Mountain Ave., Springfield, over Rahway River at Union Ave. and at Eastman St., Cranford, and South 1st St., lift bridge, etc. J. L. Bauer, 80 Broad St., engr.

Pennsylvania — May 19, by Beaver Co. (Beaver), superstructure for 4 pier bridge over Ohio River between Ambridge and Woodlawn. T. J. Wilkerson, Federal Title & Trust Bldg., Beaver Falls, consult engr.

W. Va., Glenville — See "Streets and Roads."

North Carolina — May 4, by State Hy. Comn., Raleigh, rein.-con. bridges, etc., on Project 669, Rowan Co. $53,500; Project 637, Iredell Co., $67,500; Project 624, Catawba Co., $29,000; Project 398, Robeson Co., $47,600; Project 303, Bladen Co., $32,500; and Project 165, Northampton Co., $32,000. C. M. Upham, Raleigh, engr. Noted Apr. 22.

Fla., Safety Harbor—May 10, by City Comn., rein.-con. deck girder or arch bridge, 40 ft. roadway, etc., over Muller Creek, at 1st Ave. $25,000. E. H. Thompson, city mgr.

Mississippi—See "Streets and Roads."

Louisiana—May 27, by State Hy. Comn., Baton Rouge, Bayou Boeuf Bridge, on Houma-Morgan City Highway. Federal Aid Project 155-B, Assumption and St. Mary Parishes. W. B. Robert, Raymond Bldg., highway engr.; adv. E. N.-R. Apr. 29.

O., Akron—May 17, by Comrs. Summit Co., 40 ft. bridge on New Portage-Uniontown Rd., $18,000; May 19, 143½ ft. truss bridge, on Cuyahoga St., $62,000; and May 21, 57 ft. flat slab rein.-con. bridge on Brittain Rd., $15,300. S. G. Sours, Court House, engr.

Mich., Detroit — May 7, by Dept. Pub. Wks., 70 ft. steel 1-beam and concrete bridge on concrete abutments over Michigan Central Ry. tracks, on West Lafayette Ave. P. A. Fellows, city engr. Noted Apr. 1.

Mich., Grand Rapids — May 11, Director Pub. Serv., rein.-con. viaduct and approaches on Franklin St. F. H. Locke, city mgr.; adv. E. N.-R. Apr. 29.

Illinois—May 5, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, 30 ft. and 40 ft. span concrete girder bridges, also one substructure for 70 ft. steel span bridge, on Route 13, Sect. 16-B, Perry Co.; 70 ft. steel superstructure on Route 13, Sect. 16-C, Perry Co., 51,380 lb. reinforcing, etc.; and 160 ft. span steel superstructure on Route 24, Sect. 14-C, Sangamon Co., 179,060 lb. reinforcing, etc. F. T. Sheets, ch. engr.

Wyoming—See "Streets and Roads."

Missouri — May 7, by State Hy. Dept., Jefferson City, two 8 ft. and three 14 ft. rein.-con. slab, also 80 ft. rein.-con. arch spans in Bates Co.; six 4 ft. and two 10 ft. rein.-con. slab also 30 ft. rein.-con. deck girder spans, etc. in Carroll Co.; two 8 ft., eight 10 ft. rein.-con. slab, and three 35 ft. rein.-con. deck girder, also three 20 ft. I-beam spans, etc. in Cass Co.; two 12 ft. and sixteen 20 ft. rein.-con. slab, also two 40 ft. rein.-con. deck and 60 ft. steel truss spans, etc., Franklin Co.; four 12 ft. rein.-con. slab, 40 ft. and 45 ft. rein.-con. deck girder, and 24 ft. rein.-con. arch spans, etc. Jackson Co.; 45 ft. and two 60 ft. rein.-con. deck girder spans, etc. Jasper Co.; two 30 ft. rein.-con. deck girder and three 80 ft. steel truss spans, etc., Lincoln Co.; 20 ft. and 40 ft. I-beam, also two 60 ft., three 80 ft. and two 240 ft. steel truss spans, etc., Maries Co.; four 22 ft. rein.-con. slab spans, etc., Oregon Co.; three 24 ft. rein.-con. slab and three 35 ft. rein.-con. deck girder spans, etc., Pettis Co.; two 12 ft. rein.-con. slab, and 12 ft. rein.-con. arch spans, etc., Pike Co.; two 12 ft. rein.-con. slab, two 30 ft., 35 ft. and 45 ft. rein.-con. deck girder spans, etc., St. Charles Co.; and three 24 ft. rein.-con. slab spans, etc., Vernon Co. B. H. Piepmeier, highway engr. Noted Apr. 1.

Texas—May 18, by E. W. Davis, mgr., Palestine, 600 ft. timber pile trestle and earth approaches, etc. across Neches River, for Anderson Co. (Palestine) and Cherokee Co. (Rusk), $48,000; also 1.09 mi. creosoted timber or concrete pile trestle and earth approaches across Trinity River, on Highway 41, for Anderson Co. (Palestine) and Freestone Co. (Fairfield), $250,000. Noted Feb. 25.

Texas—See "Streets and Roads."

Tex., Decatur—See "Streets and Roads."

Idaho—May 8, by Comrs. Pub. Wks., c/o Comrs. Butte Co., Arco, 4 concrete bridges on Federal Aid Project 117-A and 118-A, 882 cu.yd. excav. and 78,442 lb. reinforcing, etc. A. N. Ashline, Shoshone, dist. engr.

Idaho, Gooding—May 12, by Comr. Pub. Wks., c/o Comrs. Gooding Co., Gooding, 2 bridges and approaches on Federal Aid Project 120-A, near here, 4,865 cu.yd. excav., 23,000 sta.yd. overhaul, 33,150 lb. reinforcing and 78,200 lb. structural steel, 478 cu.yd. crushed rock or gravel surfacing, etc. A. N. Ashline, Shoshone, dist. engr.

Washington—May 11, by State Hy. Dept., Olympia, 2 T-beam bridges one to have 42 ft. and two 32 ft. spans, and other 32 ft. and two 28 ft. spans, also one 20 ft. culvert, all rein.-con. or timber over Indian Creek, on State Rd. 9 between Lake Sutherland and Elwha River, Clallam Co. J. W. Hoover, Olympia, ch. engr.

Calif., Lincoln—May 10, by State Hy. Comn., Sacramento, rein.-con. bridge over Auburn Ravine, Placer Co., here, 320 cu.yd. concrete, 47,000 lb. reinforcing 1,200 cu.yd. roadway embankment, etc. or alternate 235 cu.yd. concrete, 58,000 lb. reinforcing, etc. R. M. Morton, Forum Bldg., Sacramento, engr.

Calif., Los Angeles — May 10, by Bd. Supervs. Los Angeles Co., 1,139 ft. timber truss bridge, 30 ft., over San Gabriel River, at El Monte Ave., 2,650 cu.yd. earth excav., 9,940 ft. 35 ft. wood piling, etc. $82,993. A. Armstrong, Hall of Records, engr.

Calif., Los Angeles — May 10, by Bd. Supervs. Los Angeles Co., seven 60 ft. span bridge, etc., over Los Angeles River, at Slauson, $26,576; also one 40 ft. concrete span bridge over Rubio Wash at Elmonty Pomona Rd., $25,896. A. Armstrong, Hall of Records, engr.

Bids Received

Massachusetts—See "Streets and Roads."

South Carolina—See "Streets and Roads."

South Carolina—State Hy. Dept., Columbia, rein.-con. bridge over Pacolet River on Route 10, State Project 628, from Latimer & Peake, Columbia, $28,797.

Mississippi — Bd. Supervs. Harrison and Hancock Counties, Chancery Court, Bay St. Louis, Apr. 14, creosoted bridge over Bay of St. Louis between Bay St. Louis and Pass Christian, from J. B. Smith, Alexandria, La., $725,788. Noted Mar. 25.

Ohio—Dept. Hys. and Pub. Wks., Columbus, Apr. 16, constructing McConnel Run Bridge, rein.-con. over McConnel Run, and Perry Run Bridge over Perry Run, both on Marietta-McConnelsville Rd., Morgan Co., from I. J. Kuhner, Jackson, $10,932 and $8,690 respectively; concrete slab bridge on Sect. "D" Zanesville-New Lexington Rd. Perry Co. from Glass Bros., Crooksville, $3,352; concrete bridge on Sect. "K" Logan-Lancaster Rd., Hocking Co., from L. S. Gaty, 387 Linwood Ave., Columbus, $9,837; bridge on Sec. "E" Cincinnati-Batavia Rd., Clermont Co., from C. H. Dunn, Mt. Orab, $3,771; and 3 bridges on Sect. "B," Athens Co., from F. H. Beckler, Athens, $12,990. Noted Apr. 8.

Tex., Abilene—See "Streets and Roads."

Contracts Awarded

North Carolina — State Hy. Dept., Raleigh, rein.-con. bridges, etc., on Project 591, Rockingham Co., to Draper & Wood, Roanoke, Va., $45,507. Noted Apr. 15.

Tenn., Smithville — De Kalb Co. Bridge Com. 2 steel and concrete bridges, one over Holmes Creek, and other over Loves Ferry, to Nashville Bridge Co., Shelby Ave., Nashville. Engrs. est. $25,000.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridge on Route 39, Sect. 1-B, McLean Co., to O. Stewart, Urbana, $4,716; on Route 39, Sect. 2-B, McLean Co., to G. C. Fairclo, Champaign, $11,623; on Route 39, Sect. 2-C, McLean Co., to Vincennes Bridge Co., Vincennes, Ind., $6,297; on Route 29, Sect. V-2, Bureau Co., to J. P. Schmitt Constr. Co., Peoria, $7,912. Grand total $30,548. Noted Nov. 5, Mar. 4.

Ia., Logan—Harrison Co., 4 I-beam and 1 arch bridges, and 60 culverts and extensions on Federal Aid Project 138, to Material Supply & Constr. Co., Boone, $77,332; 2 pony trusses, to Heseel Roords, Rock Valley, $24,200.

Dams

Bids Desired

Ark., Siloam Springs — See "Contracts Awarded."

Contracts Awarded

Ark., Siloam Springs — Ozark Co., J. K. Livingston, mgr., will build 150 ft. rein.-con. dam across Illinois River, ¼ mi. above Watts-Siloam Springs bridge, by day labor.

Railways

Proposed Work

Massachusetts—New York, New Haven & Hartford R.R., E. Gagel, ch. engr., New Haven, plans transfer railroad yards on property formerly known as Readville Race Track. To exceed $25,000. Private plans.

Alabama — Muscle Shoals, Birmingham & Pensacola R.R. Co., c/o St. Louis & San Francisco R.R. Co., F. G. Jonah, ch. engr., Frisco Bldg., St. Louis, Mo., making preliminary plans relocating and eliminating curves and heavy grades on 7.6 mi. (two sections), here. $150,000. This corrects report in Apr. 15 issue under "Missouri."

Contracts Awarded

Washington — Cowlitz, Chehalis & Cascade R.R. Co., Chehalis, constructing (2nd unit) 5 mi. road bed for tracks, in Chehalis, to Hendricks & Olson, Chehalis; remaining 3 mi., to Graham Bros. & Medley, Chehalis.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Fla., Ft. Myers—See "Unclassified."

Miss., Gulfport—Gulfport Yacht Club, c/o A. S. Hopkins, making preliminary plans yacht harbor, clubhouse, etc.

O., Cleveland—City, W. R. Hopkins, mgr., made plans bulkheads at Gordon and Edgewater Parks along Lake Erie, double row of piling with fill of stone and loose materials. $750,000. R. Hoffman, City Hall, engr.

Wis., Madison—Defeated $200,000 bonds, dredging Lake Monona. E. E. Parker, City Hall, engr. Noted Jan. 14.

Tex., Olmito (mail Brownsville)—See "Unclassified."

Bids Desired

Ill., De Kalb — May 8, by Comrs. Coon Creek D. D. at office Clerk De Kalb Co., Sycamore, cleaning out old channel, incl. 15,000 cu.yd. excav., etc., here. W. M. Hay, De Kalb, dist., engr.

Mo., New Madrid—May 12, by Morgan Eng. Co., engrs., Court House, approximately 2,715,000 cu.yd. excav., etc. from Ditches 2, 3 and 4, D.D. 38, New Madrid Co.

Tex., Beaumont—May 4, by Jefferson Co. D. D. 6, c/o E. W. Boyt, chn., taking bids lateral drainage ditches, using Hildebrandt's Willow, Marsh, Pevito, Bayou Din and north fork Taylor's Bayou as mains, approximately 385,000 yd. excav. $75,000. G. Masterson, Beaumont, engr. Noted Feb. 18.

Tex., Galveston—June 1, by J. M. Murch, aud. Galveston Co., 2,800 ft. sea wall adjacent to government wall on west end of Island, 9,765 lin.ft. 35 ft. round piling, 89,280 lin.ft. 40 ft. and 12,555 lin.ft. round piles, 44,208 lin.ft. 24 ft. rein.-con. sheet piling, etc.

Calif., La Mesa—May 10, by Directors La Mesa, Lemon Grove and Spring Valley Irrigation Dist., constructing pipe line, 36,225 ft. 8- to 26-in. riveted or lock bar pipe, etc., (1) furnishing (2) dig trench (3) haul pipe (4) furnishing valves and fittings. T. H. King, 121 South Spring St., engr. Noted Feb. 4.

Bids Received

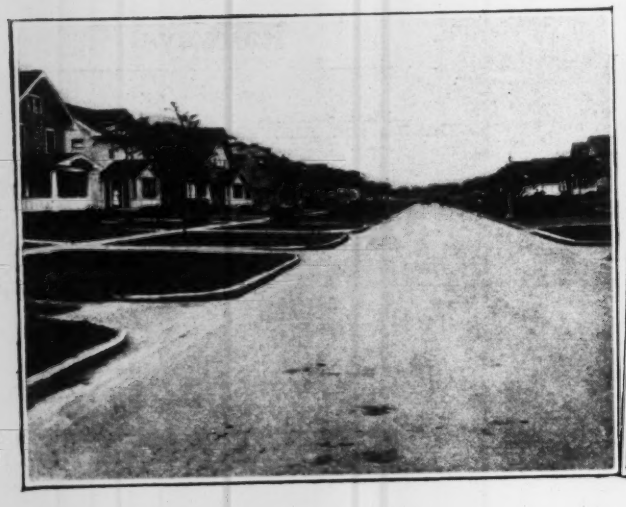
N. Y., Albany—Albany Port Dist. Comn., 100 State St., Apr. 23, dredging in Hudson River, here, from Amer. Pipe & Constr. Co., Amsterdam, $367,037. Noted Apr. 8.

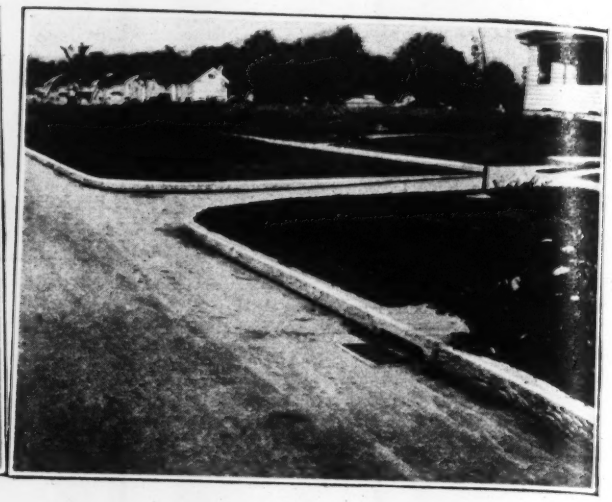
Streets and Roads

Proposed Work

Mass., Reading—Plans constructing and reconstructing various roads. $74,000 appropriated. Bd. Selectmen, engr.

N. J., Asbury Park—Plans paving Pine, Central, Dunlewey, Drummond, 3rd, 4th and Springfield Aves. $186,000. N. Rogers, Asbury Park, engr.





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Streets and Roads (Continued)

N. J., Keensburg—Monmouth Co. (Freehold) plans concrete paving 3 mi. Keansburg-Keyport Rd. G. K. Allen, Red Bank, engr.

N. J., Mount Rose — Freeholders Mercer Co. (Trenton) making plans bituminous concrete paving 2 mi. Mount Rose Rd. $30,000. H. F. Harris, Courthouse, Trenton, engr.

N. J., New Brunswick—Plans sheet asphalt on concrete paving George's Rd. from Natl. Music String Co. plant to Commercial Ave. $660,000. State and Middlesex Co. to share cost. A. Atkinson, New Brunswick, engr.

N. J., Trenton—Ewing Twp. plans cement sidewalks on westerly side Pennington Rd. $34,500. E. N. Storne, 1618 Riverside Dr., engr.

N. J., Trenton—City Comn., L. D. Hirsch, clk. plans sheet asphalt paving 9 streets. $296,000. J. E. English, City Hall, engr.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, rejected bids Apr. 8, grading E. Emerson, Hoffnagle, Ryers, Edna, Fern, Franklin, Front, Gale, Lawrence, Spencer, 2nd, 4th, 9th, 11th, 12th, Glen-Echo, and Tyson Sts. Noted Apr. 22.

W. Va., Moundsville—City Council soon takes bids vitr. brick paving Water and other streets. $50,000. J. J. Sammons, Moundsville, engr.

North Carolina — State Hy. Dept., Raleigh, rejected bids Mar. 30, clearing, grubbing, grading, etc., 11.55 mi. Project 244, Jones Co. $87,000. Will readvertise. C. M. Upham, Raleigh, engr. Noted Apr. 15.

Ga., Swainsboro — Emanuel Co. voted $400,000 bonds, improving various roads.

Ga., Newman—Voted $50,000 bonds, paving various streets.

Ala., Attalla—Plans concrete paving 13 blocks various streets. $50,000.

La., Covington — St. Tammany Parish plans issuing $30,000 bonds hardsurfacing roads in Road Dists. 1, 3 and 4, incl. John Paintville Highway, Abita Springs-Mondeville Highway and Abita Springs-Florenville highway to Lower Davis Rd.

La., Thibodaux — Road Dist. 8 plans issuing $50,000 bonds, hardsurfacing roads between Cut-off and Golden Meadow.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about June 9, grading, etc., 7 mi. McMinville-Grundy Co. line Rd., Warren Co. C. N. Bass, highway comr.

Tenn., Erin — Houston Co. election soon $150,000 bonds, grading and surfacing various roads.

Tenn., Huntsville—Scott Co. making surveys improving 16 mi. Huntsville-Campbell Co. line Rd. Work will probably be done under supervision State Dept. Highways & Pub. Wks., Nashville. C. N. Bass, comr. Noted Feb. 4.

Tenn., Murfreesboro — Rutherford Co. Court and State Dept. Highways & Pub. Wks., Nashville, plan improving 20 mi. Murfreesboro-Shelbyville Rd. and Murfreesboro-Beech Grove Rd. C. N. Bass, highway comr.

Tenn., Springfield — Robertson Co. and Dept. Highways & Pub. Wks., Nashville making surveys constructing and surfacing 5 mi. Springfield-Orlinda Rd. To exceed $25,000.

Ky., Cynthiana—Election in May, $150,000 bonds, paving various streets.

Ohio—Dept. Highways & Pub. Wks., Columbus, cancelled bids to have been opened Apr. 16, grading and bituminous macadam or waterbound macadam paving 3.954 mi. Sect. "C" Medina-Ashland Rd., Ashland Co.; concrete paving 0.464 mi. Sect. "K" National Rd., Belmont Co.; concrete or bituminous macadam paving Sect. "Spring Valley" Columbus-Cincinnati Rd., Greene Co.; and brick on concrete paving, 4.01 mi. Sects. "A and B" Akron-Massillon Rd., Summit Co. G. F. Schlesinger, ch. engr. and highway dir. Noted Apr. 8.

O., Cincinnati—Plans vertical fibre brick repaving 13,000 sq.yd. Highland Ave. from McMillan St. to Melish Ave. $98,907, and 17,500 sq.yd. Florence Ave. $137,296; granite block paving 8,000 sq.yd. McMicken Ave. from Vine to Main Sts., $51,083, and 6,400 sq.yd. Main St. from 4th to Front Sts. $57,096; concrete paving 26,000 sq.yd. Quebec Rd. from Queen City to Glenway Aves. $279,000, 19,000 sq.yd. Fairbanks Ave. from Price to Delhi Aves. $200,570, 17,000 sq.yd. Madison Rd. from Woodburn to Observation Aves. $63,060, and 3,500 sq.yd. 3rd St. from Eggleston Ave. to Pike St. $25,355. C. O. Sherrill, City Hall, engr.

O., Canton—Bd. Control soon takes bids repaving and extending Hazlette Ave. N. W., to McKinley monument approach. $30,000. W. E. Sarver, City Hall, engr.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids Jan. 9 and Feb. 19, paving Route 36, Sect. 17, Pike Co., and Route 19, Sect. 86-W, Cook Co. F. T. Sheets, ch. engr. Noted Mar. 4.

Ill., Marseilles—Takes bids about June 1, grading, curbing, and concrete paving 2 mi. Bluff St., 30 ft. $149,000. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs.

Ill., Mounds—Plans grading, curbing and concrete paving various streets. $27,000. G. F. Dewey, Cairo, engr.

Ill., Rockford. — Plans grading, curbing, sewers and warrenite bitulithic on 5 in. concrete paving 8 blocks 15th Ave., 29 ft., $41,050; grading, curbing, macadam and concrete paving 4 blocks Mulberry and South Gregory Sts., and 2 alleys, $29,840. B. C. Harvey, City Hall, engr.

Ill., Staunton—Takes bids about July 7, grading, curbing and paving 8,200 ft. Main St., State Highway 4, 30 ft., State Hy. Dept., Nashville, will pave center 18 ft. and city the balance; also rein.-con. paving 1 mi. in city, 30 ft., to connect with State Highways 4 and 16. $100,000. W. A. Fuller Co., 1817 Railway Exch. Bldg., St. Louis, Md., engrs. Noted Jan. 28.

Wis., Madison—Defeated $609,000 bonds, extending University Ave. to Capitol Square. E. E. Parker, City Hall, engr. Noted Mar. 11.

Wis., Milwaukee—W. Cavanaugh, comr. Milwaukee Co., 133 2nd St., plans concrete paving 0.5 mi. Granville Rd., 1 mi. Highway F, 1½ mi. Lincoln, 0.5 mi. Hawthorne, 2 mi. Rawson, 2 mi. Layton and 1 mi. Wauwatosa Aves. J. T. Donaghey, Madison, highway engr.

Ia., Albia—Monroe Co. defeated $600,000 bonds, improving various roads. Noted Apr. 15.

Ia., Centerville — Appanoose Co. voted $650,000 bonds, grading 26 mi., gravel surfacing 34.5 mi., and paving 24 mi. Primary Roads 3 and 59. F. L. Davis, Centerville, co. engr.

Ia., Fairfield—Jefferson Co. voted $800,000 bonds, concrete surfacing 40 mi. and gravel surfacing 9 mi. various roads, 18 ft. Total $1,308,000. M. H. Bryant, Fairfield, co. engr.

Ia., Iowa City—Made preliminary plans grading, curbing and hardsurfacing, etc., various streets. F. E. Young, City Hall, engr.

Ia., Newton—Jasper Co. plans new election $1,000,000 bonds grading 35 mi., gravel surfacing 37 mi., and paving 47.5 mi. Primary Road System. Former bond issue defeated. R. McMurray, Newton, engr.

Ia., Osceola—Making preliminary plans grading, curbing, concrete, asphalt or hardsurfacing various streets. Brown & Cook, Ottumwa, engrs.

Ia., Oskaloose—Mahaska Co. voted $1,000,000 bonds, grading 55 mi. and paving 35 mi. Primary Road System. R. H. Tumy, Oskaloosa, co. engr. Noted Apr. 8.

Kan., Atchinson—Making plans concrete paving, etc., 4.572 mi. Cemetery Rd., 18 ft. R. D. Coleman, 604 North 3rd St., engr.

Kan., Bonner Springs—City and Wyandotte Co. soon take bids brick and concrete paving 1 mi. road, 18 and 40 ft. P. A. Williamson, 1327 Waverly Ave., Kansas City, Mo., engrs.

Kan., Lawrence — Douglas Co. making plans concrete or bituminous concrete surfacing 5 mi. Federal Aid Project 227-D, 18 ft. E. E. Trueblood, Lawrence, engr.

North Dakota — State Hy. Dept., Bismarck, rejected bids Apr. 8, grading and concrete paving 6.011 mi. Federal Aid Project 219-A, Pierce Co. C. Christensen, highway comr. Noted Mar. 25.

Mo., Canton — Election May 4, $25,000 bonds, grading, paving, etc. 10 blocks various streets. $75,000. W. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, engrs.

Mo., Kirkwood — Dubinsky Realty Co., Wainwright Bldg., St. Louis, making preliminary plans grading, concrete paving, etc., various streets in Corona Park Subdivision. To exceed $25,000. Keck Surv. Co., 721½ Chestnut St., engrs.

Mo., Maplewood (br. St. Louis)—Making preliminary plans rein.-con. widening approximately 7,000 sq.yd. Big Bend Rd.

Mo., St. Louis—Soon takes bids improving Cass Ave. between Bway. and Hogan St., 17,950 sq.yd. recut granite block paving, 6,355 ft. granite curbing, etc. $115,000; also Cass Ave. between Hogan and Glasgow Sts., $18,530 sq.yd. shallow granite block paving, 7,840 ft. granite curbing, etc. $135,000. W. W. Horner, 300 City Hall, engr.

Mo., Webb City—Defeated $60,000 bonds, paving various streets. Noted Feb. 18.

Arkansas—State Hy. Dept., Little Rock, making plans grading and graveling 12 mi. Tuckerman-Alicia Rd., Jackson Co.; 5 mi. Buena Vista-Stephens Rd., Ouachita Co.; 8 mi. Magnolia-Lake Village Rd., Columbia Co.; 12 mi. Almap-Mulberry Rd., Crawford Co.; and 7 mi. Barton-Lee Co. Rd., Phillips Co. R. C. Limerick, state highway engr.

Tex., Albany — Shackleford Co. made plans grading and bridging 13.69 mi. Highway 18, Federal Aid Project 477-B, 26 ft. $45,600. J. E. Pirie, Albany, co. engr.

Tex., Denison — Voted $50,000 bonds, paving various streets. C. E. Haydon, Denison, engr. Noted Mar. 11.

Tex., Eastland—Eastland Co. returned bids unopened which were received Apr. 12, grading and bridging 3.69 mi. Cisto-Callahan Co. Line Rd. $140,000. Will probably readvertise. G. E. Franklin, Eastland, engr.

Tex., Galveston—Soon takes bids paving 25th St. from South Bway. to Boulevard Ave. H from 40th to 46th Sts., and 24th St. from Market St. to Bway. $30,600. C. A. Holt, Jr., Galveston, engr.

Tex., Galveston — Galveston Co., voted $150,000 bonds, constructing Port Arthur-Galveston Highway from Port Bolivar to High Island. C. C. Washington, Galveston, co. engr.

Tex., Groveton—Trinity Co. takes bids after May 1, grading and bridging 19½ mi. Highway 94. $90,000. J. O. Booker, Groveton, engr.

Tex., Hallettsville — Lavaca Co. making revised plans bituminous macadam paving 11.07 mi. Highway 72, State Aid Project 320, 18 ft. $220,000. W. H. Koether, Hallettsville, resident engr.

Tex., La Grange — Fayette Co. making plans grading, bridging and gravel surfacing 6 mi. Highway 44, 18 ft. $119,400. R. E. Schiller, La Grange, co. engr.

Tex., Memphis—Hall Co. soon takes bids grading and bridging 3.147 mi. State Highway 5, Federal Aid Project 438-4, 26 ft. $42,700. C. L. Hasle, Memphis, co. engr.

Tex., Uvalde—Uvalde Co. making plans grading and bridging 8.6 mi. Highway 55, State Aid Project 671, 26 ft. $55,000. M. B. Hodges, Uvalde, co. engr.

Oklahoma — State Hy. Dept., Oklahoma City, made surveys concrete surfacing 8 mi. State Highway 7, 30 ft., Nowata Co. $175,000. J. M. Page, highway engr.

Okla., Blackwell—Plans curbing, grading and vertical fibre brick paving 10,200 sq. yd. 8th, Cedar and 3rd Sts. $43,000. W. Ritzhaupt, Jr., Blackwell, engr.

Okla., Duncan—Made preliminary plans grading and concrete paving 8,800 sq.yd. various alleys. $26,400. V. Z. Rogers, Duncan, engr.

Okla., Hollis — City Council made plans, grading, curbing and concrete paving 9,800 sq.yd. Main St. and Bway. $31,600. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs.

Okla., Lawton—Plans grading and concrete paving 10,600 sq.yd. streets in Dists. 8 and 9. $31,000. G. Dale, Lawton, engr.

Okla., Muskogee—Plans grading, curbing and concrete paving 20,700 sq.yd. Baltimore, Ellsworth and Montana Sts. $63,300. J. R. Marsh, Muskogee, engr.

Okla., Oklahoma City — Plans grading, curbing and sheet asphalt paving 5,400 sq.

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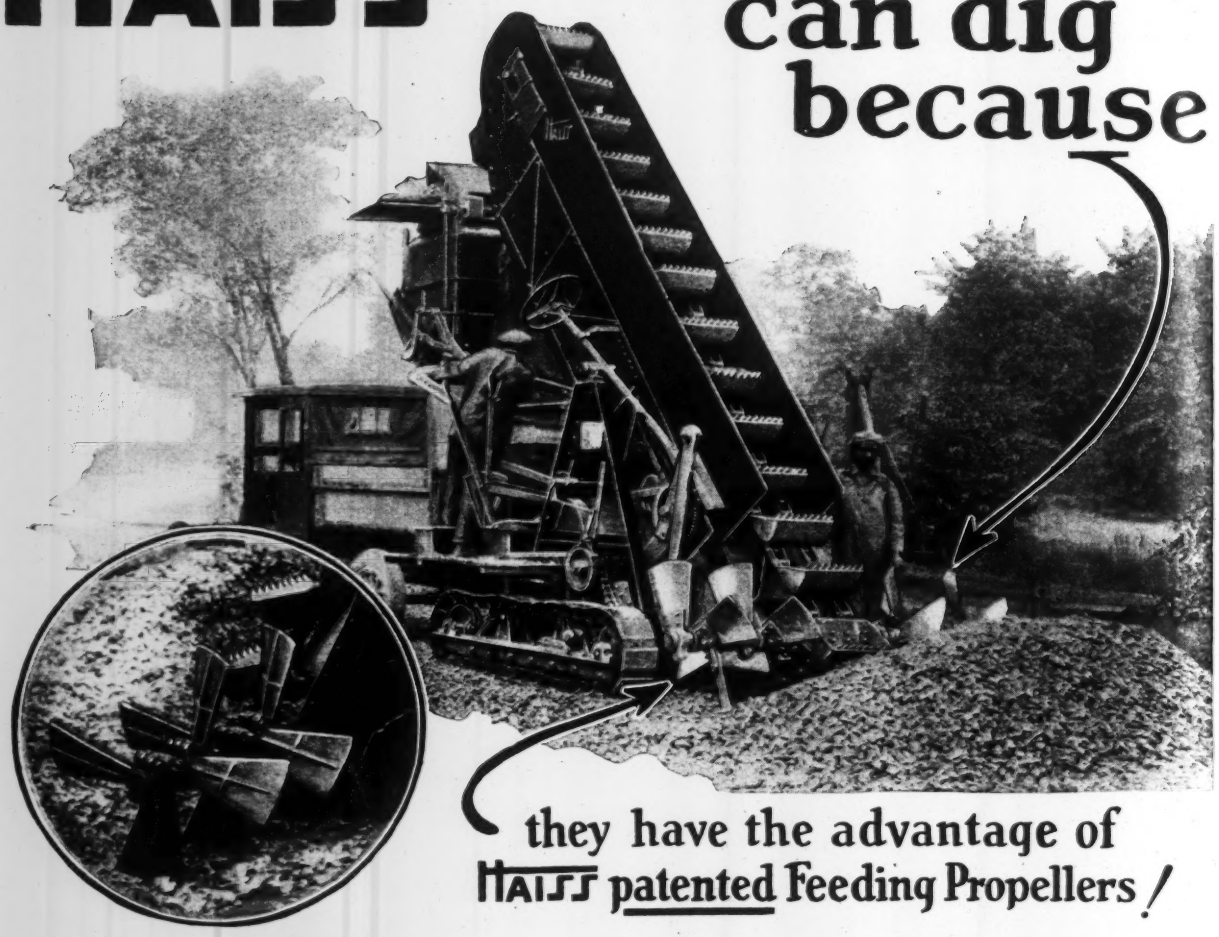

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Streets and Roads (Continued)

yd. 21st St. from Youngs Blvd. to May Ave. $27,700. B. M. Hart, City Hall, engr.

Okla., Oklahoma City — Plans grading, curbing and sheet asphalt paving 14,200 sq. yd. and concrete paving 9,600 sq.yd. Avenues C and G, Villa and McKinley Sts. $93,600. B. M. Hart, City Hall, engr.

Okla., Ponca City—Made plans grading, curbing and vertical fibre brick paving 8,100 sq.yd. South 4th and Peachtree Sts. $36,700. E. A. Jones, Ponca City, engr.

Wash., Longview—See "Bridges."

Wash., Raymond—Takes bids about May 12, 8 in. concrete paving, etc., 5 blocks Commercial St., 36 ft. J. E. Buckingham, Raymond, engr. Noted Mar. 18.

Wash., Seattle — Comrs. King Co. take bids about May 1, constructing 2 mi. (3rd link) Kirkland-Redmond Highway; also under crossing beneath Northern Pacific R.R. tracks at Kirkland, $41,000. Work involves 53,000 cu.yd. excav. T. R. Beeman, Seattle, engr.

Wash., Yakima—City Comrs. take bids about May 12, concrete paving, etc. 6th St. between Yakima Ave. and A St. $64,156. C. F. Wilson, Yakima, engr.

Calif., Monterey—City, cancelled contract (due to error) curbing, guttering, walks, asphaltic concrete paving, etc., 161,400 sq.ft. Park and Ocean Aves. Noted Apr. 8.

Calif., San Diego—Common Council made plans improving Playa del Sur, etc., 249,378 sq.ft. 5 in. concrete paving, 20,368 sq.ft. concrete sidewalk, 7,587 lin.ft. concrete curbing, 2,035 cu.yd. excav., etc. F. A. Rhodes, city engr.

Ont., Bridgeburg—Town, A. L. Jackson, clk., plans asphalt, macadam or concrete paving 16,000 sq.yd. Gilmour Rd. $65,000. Engineer not selected. Noted Apr. 15.

Ont., Leamington — Making plans and probably takes bids about May 15, concrete paving Talbot St. $35,000. J. J. Newman, Davis Blk., Windsor, engr.

Ont., Toronto — City Council plans asphalt surfacing Colborne St. $9,396, and lane 1st North of King St. $1,608; concrete paving lane 1st South of Grange Ave. $2,441, and Lancaster Ave. $3,374; also asphalt on concrete paving Hudson Ave. $11,221. R. C. Harris, City Hall, engr.

B. C., Kerrisdale — Made plans paving Dunbar St. W. B. Grieg, municipal engr. $152,500.

Bids Desired

Maine — May 4, by State Hy. Com., Augusta, concrete paving 2 sections "S" Paris, 7.39 mi. and "X" 4.94 mi. in Bangor; bituminous macadam paving 3 sections 1.81 mi. "F" in Auburn, 1.08 mi. "K-Spur" in Fort Fairfield and 1.49 mi. "M" Mt. Desert; graveling 4 sections 5.25 mi. "N" Steuben, 5.58 mi. Jonesboro-Whitneyville-Machias, 3.5 mi. "Y-Spur" Orland-Penobscot, and 6.88 mi. "Sokokis Trail," Cornish-Limerick. P. D. Sargent, ch. engr.

Massachusetts — May 4, by Dept. Pub. Wks., Boston, bituminous macadam paving 1,900 ft. Highway in Holbrook, and 3,340 ft. in Sharon, 18 ft. W. F. Williams, comr.

Massachusetts — May 11, by Dept. Pub. Wks., Boston, bituminous macadam paving 18,548 ft. Highway in Hingham and Weymouth, 18 ft. W. F. Williams, comr.

Mass., Boston — May 5, by Dept. Pub. Wks., sheet asphalt or bitulithic paving Arlington, Ashford, Coffin and Clarendon Sts. $25,000 bonds. J. H. Sullivan, comr.

N. Y., Brooklyn—May 5, by J. A. Guider, pres. Brooklyn Boro, Boro Hall, asphalt resurfacing by heater method Chester, Crystal, East 32nd, Hendrix and Huron Sts.; Christopher, Lafayette, Vandervoort, 10th, Ditmas Aves.; also grading and asphalt on 6 in. concrete paving Court St.

N. Y., Long Island City—May 4, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and sheet asphalt repaving Jackson Ave.; grading and asphalt block repaving Jamaica Ave. (Kissena Blvd.) and Franklin St.; grading and granite block on concrete paving Myrtle Ave.; and sheet asphalt on macadam paving Sutphin Rd.

N. Y., New York—May 4, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading, curbing, sidewalks and sheet asphalt paving Leland Ave. and Chishom St.; asphalt block on concrete repaving La Fontaine St.; and granite block on concrete paving East 152nd St.

N. Y., St. George — Apr. 30, by J. A. Lynch, pres. Richmond Boro, Boro Hall, concrete sidewalks on southerly side New Dorp Lane from Hylan Blvd. to Britton Lane; and bituminous concrete paving Targee St. and Castleton Ave.

N. J., Bayonne — May 3, by Hudson Co. Park Comn., 921 Bergen Ave., Jersey City, J. Filoramo, Jr., secy., grading, bulkhead, water supply and electrical work, etc. at Bayonne County Park, here.

N. J., Belvidere—May 12 (extended date), by Bd. Freeholders Warren Co., rein.-con. paving 61,256 sq.yd. Phillipsburg-Belvidere Rd., Sect. 3, from Harmony to Roxbury incl. Lincoln St., etc. H. W. Vetter, Belvidere, co. engr.; adv. E. N.-R. Apr. 29. Noted Apr. 15.

N. J., Elizabeth—May 4, by Bd. Freeholders Union Co., Court House, grading and sheet asphalt on concrete or rein.-con. paving 20,666 sq.yd. Kenilworth Blvd. from 20th St. to Springfield Ave. J. L. Bauer, 80 Broad St., co. engr.

N. J., Flemington—May 6, by Hunterdon Co., bituminous macadam paving 17,320 sq.yd. Bristols Corner-West Portal Rd., in West Portal, and 15,499 sq.yd. Point Breeze-Arwine Bridge, Kingwood. G. Day, Whitehouse Station, engr.

N. J., New Brunswick—May 4, by City Comn., sheet asphalt paving Hale, Suydam, Bristol and Bethany Sts., etc. $76,300. A. Atkinson, New Brunswick, engr. Noted Apr. 22.

Pa., West View (mail Pittsburgh)—May 4, by C. A. McLain, boro secy., Boro Hall, grading, paving, etc. Jamaica Ave. between Harlem and Center Aves. $30,000. Blum, Weldin & Co., 417 Grant St., Pittsburgh, engrs.

Delaware—May 26, by State Hy. Dept., Dover, grading, etc., 3 mi. Kitts Hammock Rd., Contr. 65; grading and concrete paving 3 mi. Delmar Toward Columbia, Contr. CS51, 0.85 mi. Seaford Cut Off, Contr. CS52 and 0.4 mi. Summit Bridge Approaches, Contr. CN19D; adv. E. N.-R. Apr. 29.

Maryland — May 11, by State Roads Comn., Baltimore graveling 2 mi. Contr. Sm-35, St. Marys Co.; concrete paving 1 mi. Contr. F-91 Frederick Co., 1 mi. Contr. Cl-57 Carroll Co., 1.38 mi. Contr. B-73 Baltimore Co., 1 mi. Contr. Q-37 Queen Annes Co., and 0.5 mi. Contr. D-42 Dorchester Co. J. N. Mackall, chn.; adv. E. N.-R. Apr. 29.

Md., Baltimore—May 5, by Bd. Awards, concrete paving 9,840 sq.yd. roads listed on Contr. 338. S. Purcell, highways engr.

W. Va., Glenville — May 12, by Court, Gilmer Co., grading, etc., 7.4 mi. Third Run-Tanner-Mill Seat Rd., Project 5; Sinking Creek Bridge, 80 ft. span pony truss steel and concrete on Project 4, Project 6, both in De Kalb Dist. N. E. Rymer, clk.

W. Va., Huntington—May 3, by Bd. City Comrs., grading, curbing and paving Simms St. from Priddie St. to Maupin Rd., Illinois St. from Auburn Rd. to Riverside Dr., 22nd St. from Washington Ave. to Riverside Dr., Crane Ave. from Apple to High Sts., and Ohio Ave. from 28th St. to Stanley Lane. A. B. Maupin, city engr.

Fla., Tampa — May 4, by City Comn., granite curbing 2½ in. asphalt block on 6 in. rock or shell paving 9,000 sq.ft. portion 15th and 20th Aves., Impvt. 172 and 176, $28,000; also 2½ in. asphalt block on 6 in. shell or rock paving 36,750 sq.yd. Central Ave. from Buffalo Ave. to Broad St., Impvt. 189, $80,000. R. D. Marton, City Hall, engr.

Ala., Birmingham—May 6, by City Comn., asphalt on concrete paving 2 blocks St., 60 ft., $26,250; 4 blocks 3rd St. W., 40 ft., $23,250; 6 blocks 7th St. and 4th Terrace, 50 ft., $24,500; 5 blocks 9th Court, 40 ft., $23,560; 2 blocks 3rd Ave. S., 40 ft., $13,500; 8 blocks 4th Ave. S., 50 ft., $86,650; 3 blocks 7th Ave. S., 40 ft., $15,960; 4 blocks 10th Ave. W., 40 ft., $20,150.

Mississippi — May 12, by Bd. Supervs. Holmes Co. (Lexington) and Madison Co. (Canton) at office Chancery Clerk, Canton, improving 2.582 mi. Federal Aid Project 72-A, 2.76 acres clearing and grubbing, 2,793 cu.yd. excav., 48,422 cu.yd. borrow, 1,785 lb. reinforcing, 5,991 cu.yd. gravel 1 mi. haul, 5,991 units overhaul, also bridges over 20 ft. span and one 120 ft. steel span bridge, 347,556 ft. creosoted and 16,182 ft. untreated timber, 15,532 ft. creosoted and 1,000 ft. untreated piling, 11,500 lb. reinforcing, etc. H. C. Dietzer, Jackson, engr.

Miss., Corinth—May 3, by Bd. Supervs. Alcorn Co. at office Chancery Clerk, improving Corinth-Ashland Highway, Sect. A, 16.044 acres clearing and grubbing, 28,861 cu.yd. excav., 28,916 yd. borrow, Sect. B, 20.394 acres clearing and grubbing, 55,113 cu.yd. earth and 1,000 cu.yd. rock excav., 20,544 cu.yd. borrow, etc. also 1,767 ft. 18 in. vitr. clay pipe, 600 cu.yd. concrete gravel, 300 cu.yd. concrete sand, 45,437 lb. reinforcing, 192,437 ft. creosoted and 7,172 ft. untreated timber, 8,192 ft. creosoted piling, 850 bbl. Portland cement. H. C. Dietzer, Jackson, engr.

Miss., Lucedale—May 4 by Bd. Supervs. George Co., improving 7.351 mi. Lucedale-Pascagoula Highway, 10 acres clearing and grubbing, 21,386 cu.yd. excav., 4,364 yd. borrow, 881 ft. 15- to 24-in. vitr. clay pipe, 3,640 yd. sand clay 1 mi. haul, 875 units ½ mi. overhaul.

Louisiana — May 4, by State Hy. Comn., Baton Rouge, graveling 8.88 mi. Campti-Coushatta Highway, Federal Aid Project 158-B, and State Project 158-C, Red River Parish. W. B. Robert, highway engr.

Ky., Paintsville—May 3, by City, concrete or rock asphalt on concrete surfacing various streets. J. C. Newman, city clk.

Ohio—Apr. 30, by Dept. Hys. and Pub. Wks., Columbus, grading and concrete widening 3.557 mi. Sect. "1-1" Cleveland-Sandusky Rd., Erie Co. $60,949. G. F. Schlesinger, highway comr.

O., Cleveland—May 5, by City, grading, curbing and paving Linn Dr. N. E., East 104th, East 117th and West 148th Sts., Ardmore Ave. S. W., Benwood Ave. S. E., Botany Ave. S. W., Cardwell Ave. S. E., Craven Ave. S. E., Crestline Ave. S. W., Glen Ave. N. E., Hale Ave. S. W., Minor Ave. S. E., Nelson Ave. S. E. and Prince Ave. S. E. $400,000. R. Hoffman, City Hall, engr.

O., Noblesville—May 7, by Hamilton Co., grading and tar bound macadam repaving 17,900 sq.yd. Eagle Creek Rd. from Harrison to Thompson Rds. $53,115. E. A. Gast, Court House, engr.

O., St. Clairsville — May 3, by Comrs. Belmont Co., traffic-bound macadam paving, etc. Egypt-North Rd. $55,429. E. M. Shirk, St. Clairsville, engr.

O., St. Clairsville — May 10, by Comrs. Belmont Co., concrete, macadam or amesite paving, etc., Martins Ferry-Mt. Pleasant Rd., concrete $91,000 and macadam $77,000. E. M. Shirk, St. Clairsville, engr.

Ind., Angola—May 3, by Comrs. Steuben Co., constructing Freeman McCord, et al., Rd., Otsego Twp., $7,329; William Compton, et al., Rd., Steuben Twp., $8,460; John A. Taylor Rd., $13,356, and Earl Northam et al., Rd., $3,912, both in Fremont Twp. F. O. Watkins, aud.

Mich., Saginaw—May 1, by Saginaw Co., stone macadam paving 1½ mi. A. D. Rd. 104, and 1½ mi. Rd. 103.

Illinois—May 5, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete, bituminous filled vitr. brick or bituminous concrete with or without binder course paving 6.71 mi. Route 2, Sect. 53 De Witt Co., 0.26 mi. Route 2, Sect. 73-X La Salle Co., 4.28 mi. Route 3, Sect. 5 Cass Co. 2.57 mi. Route 3, Sect. 16 Whiteside Co., 1.09 mi. Route 3, Sect. 33 Warren Co., 1.31 mi. Route 3, Sect. 49 Greene Co., 1.5 mi. Route 3, Sect. 63 Madison Co., 0.68 mi. Route 5, Sect. 29-X, 0.9 mi. Route 5, Sect. 29-Y, and 0.65 mi. Route 5, Sect. 30-Y, all Jo Daviess Co., 1.33 mi. Route 9, Sect. 27 Fulton Co., 6.01 mi. Route 13, Sect. 15 Jackson and Perry Counties, 5.91 mi. Route 13, Sect. 16 Perry Co., 0.49 mi. Route 18, Sect. 22-X La Salle Co., 3.2 mi. Route 20, Sect. 14 McHenry Co., 0.13 mi. Route 25, Sect. 16-X Coles Co., 8.71 mi. Route 31, Sect. 18 Fulton Co., 4.86 mi. Route 36, Sect. 17 Pike Co., all 18 ft. wide, and 1 mi. Route 46, Sect. 464-M Cook Co., 20 ft.; grading 0.32 mi. Route 5, Sects. 5 and 29 Jo Daviess Co., 2.01 mi. Route 13, Sect. 16-A Perry Co., and 2.96 mi. Sect. 1 Copperas Creek Lock-Banner Rd. F. T. Sheets, ch. engr.

Ill., Chicago—May 6 (extended date), by H. E. Wallace, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., approaches for bascule bridge over main drainage channel Sanitary Dist. of Chicago, at South Cicero Ave. $150,000. Noted Apr. 8.

Ill., Galesburg — May 5, by Bd. Local Impvts., grading, curbing and brick on concrete paving 5 blocks Kellogg St., 36 ft. A. L. Richey, city clk. Noted Feb. 4.

Ill., Springfield — May 3, by Bd. Local Impvts., S. A. Ballard, pres., grading, curbing and brick on concrete paving 3 blocks Jefferson St., 40 ft. $30,000. W. Seele, City Hall, engr. Noted Jan. 14.

Ill., Elmhurst—May 3, by Village Clerk, macadam paving various streets. $182,000. E. Hancock Eng. Co., 2047 Ogden Ave., Chicago, engrs.

Wisconsin — May 7, by State Hy. Dept., Office 1, Capitol Annex, Madison, grading, concrete paving, etc. 46,173 sq.yd. Federal Aid Project 387-A, Dane Co., and 42,502 sq.yd. sta. 208 to 400, Sect. B. J. T. Donaghey, ch. engr.

Ia., Ames—May 3, by P. P. Hopkins, city mgr., curbing, guttering and concrete, brick or asphalt paving 70,000 sq.yd. various streets. $200,000. F. P. Hopkins, Ames, engr. Noted Feb. 25.

Ia., Jefferson — May 4, at office Auditor Greene Co., grading, gravel surfacing, etc. several miles various roads. J. L. Lindsay, Jefferson, co. engr.

Ia., Ft. Dodge — May 4, by City Clerk, resurfacing old wearing surface with warrenite, bitulithic, natural lake asphalt, oil sheet asphalt, or vibrolithic 6,600 sq.yd. 1st Ave., 4th and 6th Sts. C. H. Reynolds, City Hall, engr.

Ia., Toledo—May 5, by G. A. Benson, city clk., grading, curbing, guttering and 6 in. gravel, crushed stone, 4 in. asphaltic maca-

Streets and Roads (Continued)

dam, 2 in. asphaltic macadam or 6 in. concrete paving 65,286 sq.yd. various streets. $185,000. M. Tschirgi & Sons, 712 Amer. Trust Bldg., Cedar Rapids, engr.

North Dakota — May 11, by State Hy. Dept. and Comrs. Burleigh Co., Court House, grading, etc. 18 mi. Federal Aid Project 306-D. C. Christensen, highway, comr.

North Dakota — May 11, by State Hy. Dept. and Comrs. Burleigh Co., Court House Bismarck, grading, etc. 7.95 mi. Federal Aid Project 174-B, and 1.994 mi. Federal Aid Project 174-C. C. Christensen, highway comr.

North Dakota — May 12, by State Hy. Dept. and Comrs. Stutsman Co., Jamestown, **(F. A. P. means Federal Aid Project)**, grading, etc. 2.716 mi. F.A.P. 313-A, 7 mi. F.A.P. 306-C, and 11.362 mi. F.A.P. 279-B. C. Christensen, highway comr.

North Dakota — May 12, by State Hy. Dept. and Comrs. Stutsman Co., Court House, Jamestown, grading, etc. 9.925 mi. Federal Aid Project 313-B. C. Christensen, highway comr.

North Dakota — May 13, by State Hy. Dept. and Comrs. LaMoure Co., at Court House, LaMoure, **(F. A. P. means Federal Aid Project)**, 5.023 mi. F. A. P. 140, and 7.74 mi. F. A. P. 297-B; also gravel surfacing, etc., 12.029 mi. F. A. P. 148. C. Christensen, highway comr.

North Dakota — May 13, by State Hy. Dept. and Comrs. La Moure Co., Court House La Moure, grading, etc. 10.035 mi. Federal Aid Project 298-A. C. Christensen, highway comr.

North Dakota — May 14, by State Hy. Dept. and Comrs. Griggs Co., Court House Cooperstown, grading, etc. 12 mi. Federal Aid Project 323-B. C. Christensen, highway comr.

Wyoming — May 4, by State Hy. Dept., Cheyenne, grading, graveling, etc. 13,400 cu. yd. Sect. "A" Federal Aid Project 165, Platte Co., $105,120; grading, constructing 2 pile bridges and graveling, etc. 126,000 cu.yd. Sect. "B" Federal Aid Project 180, Unita Co., $63,000; also grading, two 24 ft. I-beam spans, etc. on 9.8 mi. Sect. "B" Federal Aid Project 156, Albany Co., $27,000; all 24 ft. G. Manfull, Laramie, engr.

Missouri — May 7, by State Hy. Dept., Jefferson City, grading, graveling and concrete paving 980,631 sq.yd. various roads in Bates, Boone, Carroll, Cass, Cole, Franklin, Green, Jasper, Lincoln, Linn, Macon, Montfomery, Oregon, Pettis, Pike, Randolph, Ralls, Saline, St. Charles and Vernon Counties. B. H. Piepmeier, highway engr. Noted Apr. 8.

Mo., St. Louis—May 4, by Bd. Pub. Serv., 208 City Hall, asphaltic concrete paving, etc. 4,220 sq.yd. Clifton St. $25,000, 770 sq.yd. Cora St. $6,320, 1,305 sq.yd. Farlin St. $8,800, 3,650 sq.yd. Osceola St. $21,200; asphalt paving, etc. 3,095 sq.yd. Garfield Ave. $20,200, 7,805 sq.yd. Garfield Ave. between Prairie and Sarah Sts. $28,520, 4,610 sq.yd. Harney St. $33,520, 3,150 sq.yd. Magnolia St. $23,720; Warrenite bitulithic concrete paving, etc. 9,555 sq.yd. Connecticut St. $41,320, and 13,275 sq.yd. Wyoming St. $54,000; brick paving, etc. 2,645 sq.yd. Thrush St., $19,200; and 1,285 ft. 12- to 36-in. vitr. clay sewers in Sect. "C" North Baden Sewer Dist., $11,320. W. W. Horner, 300 City Hall, engr.

Texas — May 13, by H. Moseley, chn. State Hy. Comn., Austin, grading and oridging 4.87 mi. Highway 26-A, State Aid Project 653, $30,000; also 3.522 mi. Highway 64, State Aid Project 648, $25,000, both Henderson Co., 26 ft. C. R. Newton, Rusk, resident engr.

Tex., Cleburne — May 7, by J. Hughes, city secy., paving West Wellinghan St. from North Main to Grandbury Sts., East Wellinghan St. from North Main to North Anglin Sts., Buffalo St. from West Henderson to Wellinghan Sts., South Walnut St. from West 2nd St. to Old Meridian Rd., West Heard St. from Buffalo to Grandbury Sts., Warhulle St. from Mill to Grandbury Sts., and Mill St. from West Chambers to Harrell Sts. $40,000.

Tex., Decatur—May 10, by S. M. Ward, judge Wise Co., grading and bridging 7.765 mi. Highway 39, State Aid Project 667, 26 ft. $56,000. H. R. Hayes, Decatur, co. engr.

Okla., Hollis — May 3, by J. G. White, mayor, grading and concrete paving 10,400 sq.yd. Main St. and Harmon Ave. $31,700. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs.

Okla., Rush Springs — May 4, by B. A. Parrish, city clk., grading, curbing and concrete paving 6,950 sq.yd. Blakeley Ave. $29,756. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Tulsa—May 7, by R. Garbett, city auditor, grading and concrete paving 7,140 sq.yd. Dist. 717 $25,370, 6,100 sq.yd. Dist. 712 $25,000, 6,200 sq.yd. Dist. 714 $27,400, and 6,000 sq.yd. Dist. 715, $25,000; grading and sheet asphalt paving 5,200 sq.yd. Dist. 713 $26,210 and 4,900 sq.yd. Dist. 716 $28,440. C. Schultz, City Hall, engr.

Colorado — May 5, by State Hy. Dept., Denver, clay and sand sub-grade treating 20.62 mi. Federal Aid Project 287-A, Constr. Div. 2, Morgan Co.; also 5.409 mi. Federal Aid Projects 288-A and B, Paving Div. 1 and 2, Logan and Washington Counties. L. D. Blauvelt, highway engr.

Idaho—May 5, by Comr. Pub. Wks., Office Comrs., Banncock Co., Pocatello, crushed rock or gravel surfacing, etc., 56,204 cu.yd. Federal Aid Project 112-A. P. B. Wilson, Boise, dist. engr.

Idaho—May 6, by Comrs. Pub. Wks., c/o Comrs. Bear Lake Co., Paris, improving Federal Aid Project 96-B, Old Oregon Trail Highway, 62,355 cu.yd. earth, 8,944 cu.yd. solid and 6,727 cu.yd. loose rock excav., 17,236 cu.yd. crushed rock or gravel surfacing, etc. P. B. Wilson, Pocatello, dist. engr.

Idaho—May 8, by Comr. Pub. Wks., Office Comrs. Butte Co., Arco, grading 21.33 mi. Federal Aid Project 117-A, and 15.06 mi. Federal Aid Project 118-A, 111,666 cu. yd. earth, 9,184 cu.yd. solid and 5,676 cu.yd. loose rock excav., 34,367 sta.yd. overhaul, 26,837 lb. reinforcing, etc. A. N. Ashline, Shoshone, dist. engr.

Idaho, Idaho Falls — May 4, at office Comrs. Bonneville Co., improving 7.72 mi. Yellowstone Park Highway, Federal Aid Project 142-B and 21-B, 45,848 cu.yd. earth, 188 cu.yd. solid and 38 cu.yd. loose rock excav., 81,074 sq.yd. paving, etc. P. B. Wilson, Sonnenkalb Bldg., Pocatello, dist. engr.

Washington — May 11, by State Hy. Dept., Olympia, crushed gravel resurfacing 6,300 cu.yd. State Rd. 9, Clallam Co.; crushed gravel surfacing 9,390 cu.yd. State Rd. 12, Cowlitz Co.; grading, etc., 2.4 mi. State Rd. 3, Yakima Co., and 6.1 mi. State Rd. 1, King and Snohomish Counties; also overhead crossing on State Rd. 9 between Chimacum Rd. and Port Townsend, Jefferson Co. J. W. Hoover, Olympia, ch. engr.

California—May 10, by State Hy. Comn., Sacramento, grading, and gravel or stone surfacing, etc., 6,000 cu.yd. roadway between Sportsman Hall and Riverton, El Dorado Co. R. M. Morton, Forum Bldg., Sacramento, engr.

Calif., San Diego — May 10, by Common Council, improving Newton Ave., 197,577 sq.ft. 5 in. concrete paving, 1,443 sq.ft. concrete sidewalk, 162 lin.ft. concrete curbing, etc. F. A. Rhodes, city engr. Noted Feb. 26.

Calif., Santa Rosa — May 12, by W. W. Felt, Jr., clk., Sonoma Co., improving Dutton Ave. in 3rd Supervisorial Dist., 2,100 cu.yd. unclassified excav., 1,600 cu.yd. concrete or 103,104 sq.yd. 2 in. Willite on 3 in. asphaltic concrete paving, etc. $25,000 or more. E. A. Peugh, Santa Rosa, co. surv.

Ont., Toronto — May 4, by T. Foster, mayor, City Hall, asphalt on concrete paving Lascelles Blvd., Turnberry Ave., River, St. Pauls, and Tracy Sts.; asphaltic concrete surfacing Sparkhall Ave.; bitulithic on concrete paving Maughan Crescent; bitulithic concrete resurfacing Langley Ave.; brick block on concrete paving Park Rd.; grading Folkes St., concrete curbing Maughan Crescent and Tracy St.; and concrete sidewalks on Brookdale, Edna, Glenlake, Glenview, Hemlock, Leona, Northland, Ridge, Roselawn, St. Clair, St. Clements and Turnberry Aves., Edith and Glenmanor Drives, Gerrard St. and Heath Crescent Sts., Highfield Rd. and Lascelles Blvd. $200,000.

Saskatchewan—May 5, by H. S. Carpenter, deputy minister, paving 8 mi. road from Hazenmore to Aneroid, Project 41-B, and 12 mi. road in Superb north and west, for Provincial Government. Dept. Hys., Regina. $55,000.

B. C., South Vancouver—See "Contracts Awarded."

Que., Pointe Clair — May 3, by O. Beaudoin, city engr., macadam paving 1 mi. Victoria and Coolbreeze Aves. $50,000.

Bids Received

Massachusetts—Dept. Pub. Wks., Boston, Apr. 20, bituminous macadam paving 10,700 ft. Highway in Northfield, from Kelleher Corp., Turners Falls $77,146, 24,125 ft. in Bernardston, and 21,566 ft. in Monson, from New Haven Road Constr. Co., 70 Hill St., New Haven, $152,283 and $159,283 respectively, and 12,200 ft. in Saugus and Revere, from M. McDonough Co., Swampscott, $132,459; rein.-con. paving 1,200 ft. in Swampscott, from Simpson Bros. Corp., 77 Summer St., Boston $11,685, and 5,284 ft. in Agawam, from D. O'Connell Sons, 480 Hampden St., Holyoke $72,031; bituminous concrete paving 4,400 ft. in Nantucket, from M. F. Roache, 35 Spring St., East Bridgewater, $16,497; bridging, macadam and concrete paving 1,050 ft. in Billerica, from J. P. Kennedy Constr. Co., 6 Beacon St., Boston, $40,277; 2 bridges and approaches on section of Highway in Amherst, from P. Keating, Fitchburg, $[illegible]996. Noted Apr. 15.

Mass., Roxbury (Boston P. O.)—Supt. Pub. Wks., Boston, Apr. 20, recut granite block paving Blue Hill Ave., here, from A. De Stefano, 10 Everett St., Boston, $3[illegible]21[illegible]. Noted Apr. 15.

New York—A. W. Brandt, comr. highways, Albany, Apr. 20, **(e. e. means engineers estimate)**, improving 2.39 mi. Repair Contr. 1496, Highways 5026 and 5094, Steuben Co., and 2.45 mi. Repair Contr. 1502, Highway 5282, Seneca Co., from H. W. Patterson, Hornell, $93,882 and $74,577 respectively, e. e. $120,588 and $89,859 respectively; 2.91 mi. Repair Contr. 1501, Highway 5208, Chemung Co., from E. C. Jones, Salamanca, $114,988, e. e. $146,443; [illegible] mi. Repair Contr. 1495, Highway [illegible], Saratoga Co., from Lane Constr. Corp., 37 Colony St., Meriden, Conn., $136,368, e. e. $179,024; 4.07 mi. Repair Contr. 3143, Parts 1 and 2, Highways 250 and 271, Oneida Co., from Hogeboom & Campfield, Inc., Kingston, $238,184, e. e. $327,088; 0.87 mi. Highway 1562-A, Albany Co., from T. S. O'Brien, Albany, $33,170, e. e. $43,930; 2.44 mi. Repair Contr. 1497, Highway [illegible], Steuben Co., from W. L. Collins, Hornell, $119,331, e. e. $155,871; 4.54 mi. Highway 8244, Part 2, Albany Co., from Belmar Contg. Co., Inc., Proctor Bldg., Troy, $184,825, e. e. $296,400; 3.07 mi. Repair Contr. 1499, Highway 624, Jefferson Co., from Miller, Hayes & Gillette Constr. Co., Watertown, $115,571, e. e. $137,901; 3.69 mi. Repair Contr. 1493, Highways 337, 9022-9023, Madison Co., from C. D. Murray, Syracuse, $149,111, e. e. $185,576; 3.45 mi. Repair Contr. 1491, Big Tree Highway 36, Erie Co., from John Irwin Contg. Co., Inc., Lockport, $160,205, e. e. $242,628; 3.3 mi. Repair Contr. 1492, Hughsonville Highway 222, Dutchess Co., from J. L. Dugan, Inc., Newburgh, $158,374, e. e. $200,382; 2.37 mi. Repair Contr. 1493, Part 1, Highway 188, Ontario Co., from Di Pillo & Balistreri Constr. Co., Geneva, $124,645, e. e. $152,975; 6 mi. Repair Contr. 1494, Part 2, Highway 5267, Jefferson Co., from Lord, Coopy & Furnia, Inc., Willsboro, $284,867, e. e. $338,044, and 9.62 mi. Highway 1685-A, Washington Co., from S. B. Van Wagenen, Inc., Kingston, $303,331, e. e. $397,267. Noted Apr. 1.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, Apr. 15, from Leonard Paving Co., 233 Bway., New York City, granite paving Waverly Ave., $18,094; from F. Persicano 350 Fulton St., grading and sidewalks on 55th St. $1,481 and grading East 31st St. $2,618, from A. E. Castle, 3313 Tilden Ave., grading Caton Pl. $1,993 and East 34th St., $1,543, from F. De Vito, 158 17th St. Georgia Ave. $3,550, Avenue S $1,514, 9th Ave. $1,187, 21st Ave. $2,115, from W. J. McHale, 1250 Jefferson Ave., Rockaway Parkway $4,725, Snyder Ave. $10,071, West 10th St. $3,088 and East 31st $2,058; from B. Turecamo Contg. Co., 8706 16th Ave., grading and asphalt paving Colonial Rd., $8,142, East 77th St. $5,425, Avenue S $17,709, West 9th St. $7,337, 10th Ave. $10,601, 24th Ave. $9,432, 59th St. $6,600, 63rd St. $7,530, 72nd St. $6,647, East 31st St. $8,131, 21st Ave. $6,905, and 72nd St. $8,278, from Uvalde Asphalt Paving Co., 1 Bway., New York City, East 34th St. $4,905, East 34th St. $3,389, Livonia Ave. $12,706, Pennsylvania Ave. $62,136, Riverdale Ave. $2,513, from Cleveland Trinidad Paving Co., Flushing, Hegeman Ave. $4,320, from Borough Asphalt Co., 1301 Metropolitan Ave., Pulaski St. $1,852, from Brooklyn Alcatraz Asphalt Co., Hamilton Ave., 7th Ave. $17,217, 9th Ave. $3,170, 48th St. $6,893, 71st St. $1,957, New York Ave. $8,474, and ½ in. concrete paving Avenue S $17,539. Noted Apr. 15.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Apr. 20, bituminous macadam paving St. Marks Pl. from Hamilton to Westervelt Aves., from Vanbro Constr. Corp., 24 Elizabeth St., West New Brighton, $18,510. Noted Apr. 15.

Pennsylvania — State Hy. Dept., Harrisburg, Apr. 20 **(R. means Route and A. means Application)**, one course rein.-con. paving 26,874 ft. R. 181, A. 2729, Westmoreland Co., from Georges Constr. Co., Box 338, Uniontown, $194,408, 8,000 ft. R. 362, A. 3916, Montgomery Co., and 37,282 ft. Rs. 382-310, As. 3825-3981, Berks Co., from Ambler-Davis Co., Harrison Bldg., Phila., $85,674 and $293,442 respectively, 25,899 ft. R. 214, As. 3957 and 4082, Clarion Co., from W. C. Quick & Co., Brookville, $176,545, 4,355 ft. A. 3581, Allegheny Co., from A. G. Rothey, Elizabeth, $44,698, 22,631 ft. R. 522, As. 3744 and 3745, Franklin Co., from Britti & Lozzi, 35 North Foundry St., Hagerstown, Md.,

Streets and Roads (Continued)

J. J. McHugh, 1617 Race St., Foust St. $925, Ritner and 12th Sts. $1,256, to Curtis Bros., State and Unruh Sts., Philmont St. $7,572, to J. F. Malloy, 15 East Mermaid Lane, Sydenham and 65th Sts. $5,047; to Barber Asphalt Co., 239 North 30th St., asphalt paving Durham St. $5,262, Limekiln Pike $12,196, Ogontz St. $71,921, East School Lane $4,583, Upland Way $23,935, Webb St. $3,179, Wyncote St. $12,897, 52nd St. $19,989, 66th St. $15,797, 67th St. (shoulders) $7,510, asphalt repaving Carlisle, Fernon, McClellan, Mountain, Pierce and Sigel Sts. $43,996, Haverford St. $163,428 and Randolph St. $4,473; to Union Paving Co., 30th and Locust Sts., asphalt paving Erie St. $175,993, asphalt repaving Allegheny St. and track area $51,178, Lehigh St. $92,290, Christian St. $8,325, Edgemont St. $4,973, Lambert, Marvine, Olive and Opal Sts. $7,887; to Eastern Asphalt Co., Penna Bldg., asphalt paving Kingsessing St. $50,499, Roanoke St. $6,145, Wakeling St. $6,713, 17th St. $5,898, 61st St. $2,900, and Chester St. $2,262, to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., Spencer St. $16,806, Stokley St. $26,758, 17th St. $7,343; to United Paving Co., Real Estate Trust Bldg., redressed granite block repaving Bridge St. $67,360, Stewart, Stillman, Taylor and Turner Sts. $18,750, 24th St. $6,831, concrete paving roadway at Commercial Museum near 34th and Spruce Sts. $7,172; and to Municipal Paving Co., 702 Catharine St., redressed granite block repaving Richmond St. $68,117. Grand total $181,695. Noted Apr. 22.

Pa., Pittsburgh—City, (e. e. means engrs. est.), to T. Cronin Co., South 18th St., repaving Laremir Ave. $26,946 e. e. $30,000, Brighton Rd. $31,188 e. e. $35,000, Murray Ave. $45,130 e. e. $50,000, and reconstructing Braddock Ave. $35,039 e. e. $40,000; and to Booth & Flinn Ltd., Forbes St., California Ave. $38,332 e. e. $40,000, Arlington Ave. $72,787 e. e. $75,000, and Forbes St. $121,482 e. e. $125,000. Grand total $370,924.

Pa., Pittsburgh — Controller Allegheny Co., concrete paving 14,610 ft. McKeesport Blvd., Contr. 1, to Frazier & Mansfield, McKeesport, $328,376, engrs. est. $350,000; and reconstructing, widening and curve elimination on Fox Chapel Rd. (near Aspinwall) to S. Baumgardeer, Germania Bldg., $65,434, engrs. est. $70,000. Noted Mar. 25.

Maryland—State Rds. Comn., Baltimore, concrete paving 2.05 mi. Contr. G-34, Garrett Co., to T. D. Claiborne Co., Garrett Bldg., Baltimore $44,232, 1 mi. Contr. Cl-56, Carroll Co., to Hoffinberger & Mause, Myersville $17,737, and 1.35 mi. Contr. Q-36, Queen Annes Co., to J. K. Flick, Sudlersville, $19,938; concrete shoulders and resurfacing 4.51 mi. Contr. Wi-6-B, Wicomico Co., to Hanneman-Burroughs Co., Salisbury, $75,172; concrete shoulders on 2.4 mi. Contr. M-6-A, Montgomery Co., to M. J. Grove Lime Co., Lime Kiln, $16,450; graveling 1.69 mi. Contr. C-23, Calvert Co., to E. R. Jarvoe, Mechanicsville, $22,987. Grand total $196,516. Noted Apr. 22.

Maryland—State Rds. Comn., Baltimore, concrete paving 1.2 mi. Contr. Wo-46, Worcester Co., to Hanneman-Burroughs Co., Salisbury, $31,770, 2.35 mi. Contr. D-29, Dorchester Co., to Layfield & Waller, Quantico, $39,391, and 1.43 mi. Contr. CL-60, Carroll Co., to Adams & Marino, Old Town Bank Bldg., Baltimore, $46,149; concrete shoulders on 6.5 mi. Contr. A-2-C, Allegany Co., to S. T. Brotemarkle, Cumberland, $43,510, 5 mi. Contr. K-1-A, Kent Co., to Kaufman Constr. Co., Denton, $25,536, and 5 mi. Contr. B-20-C, Baltimore Co., to H. T. Campbell Sons Co., Towson, $38,950. Grand total $225,306. Noted Apr. 15.

Md., Baltimore — Bd. Awards, concrete paving footways as listed in Footway Contr. 91, to P. Lavezza, 911 Eastern Ave., $27,249. Noted Apr. 22.

Md., Baltimore — Bd. Awards, concrete paving 19,630 sq.yd. Contr. 327, to J. J. Bresnan, Woodland Ave., $54,201; sheet asphalt paving 12,860 sq.yd. Contr. 328, to Amer. Paving Co., Montebello Ave. $52,085, and 26,000 sq.yd. Contr. 326, to P. Flanigan & Son, Harford Rd. and Baltimore & Ohio Ry. tracks $96,736; also paving alleys listed in Contr. 119, to J. Lavezza, 911 Eastern Ave., $22,497. Grand total $225,519. Noted Apr. 22.

North Carolina—State Hy. Dept., Raleigh, grading and plain concrete paving 0.84 mi. Project 774, Watauga Co., to Foster Constr. Co., North Wilkesboro, $29,207; clearing, grubbing and plain concrete paving, etc., 7.67 mi. Project 112, Camden Co., to Lawson & Brooke, Norfolk, Va., $234,235, and 9.66 mi. Project 3450, Granville Co., to Gregory & Weisiger, Pittsboro, $252,612; grading, and sand asphalt paving 13.73 mi. Project 550, Hoke Co., to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $266,402; clearing, grubbing and grading, etc., 7.6 mi. Project 574, Moore Co., to J. K. Cecil, Lexington, $39,247; clearing, grubbing, grading and small rein.-con. structures on Project 685, Catarrus Co., to Atlantic Paving Co., Salisbury, $84,149. Grand total $905,852. Noted Apr. 15.

N. C., Durham — Grading, paving, etc., various streets, to F. J. McGuire, Bankers Trust Bldg., Norfolk, Va., $859,854. Noted Apr. 1.

Fla., Brooksville—Paving various streets, to Bennett & Crane, Brooksville, $272,122.

La., Baton Rouge — Curbing, guttering and warrenite on 5 in. concrete paving 12,540 sq.yd. Gracie, Claria, Gayoso, Spain, and Highland Sts., etc., to Southern Roads Co., Baton Rouge, $41,700; also sewers in McCall and Lake Hill Dist., to C. B. Stewart, Baton Rouge, $10,700. Noted Apr. 8 under "Sewers."

Kentucky—State Hy. Dept., Frankfort, (**F. A. P. means Federal Aid Project and S. A. P. means State Aid Project**), grading 7.9 mi. Sligo-Bedford Rd., F. A. P. 145-A Trimble Co., and 11.9 mi. same road Sect. B, to H. S. Tye & Son, Cannonsburg, $37,962 and $78,435 respectively, 9.8 mi. Jackson-Hazard Rd., F. A. P. 138-B Breathitt Co., and 4.6 mi. Salyersville-Royalton Rd., S. A. P. 28-B, Magoffin Co., to H. H. Miller, Jackson, $162,471 and $57,414 respectively, 5.9 mi. Owensboro-Howesville Rd., F. A. P. 105-B, Daviess Co., to J. C. Ellis, Owensboro, $48,111; waterbound macadam surfacing 3.7 mi. Georgetown-Paris Rd., S. A. P. 32-A, Scott Co., to J. S. Lancaster, Georgetown, $34,599; rein.-con. surfacing 11.6 mi. Mayesville-Germantown Rd., S. A. P. 57-A, Mason Co., to E. K. Newell, Mayesville, $318,837. Grand total $737,829. Noted Mar. 11 and 18.

O., Canton—Bd. Control, asphalt surfacing 9th St. N. W. from McKinley Ave. N. W., to Fulton Rd. N. W., to Wise Bros. Co., 1126 11th St. N. W., $35,793. Engrs. est. $35,000. Noted Dec. 17.

O., Canton — Brick paving Henry Ave. S. W. from Navarre Rd. to 20th St. S. W., to Canton Sand & Gravel Co., 1300 Clarendon Ave. S. W., $63,346, engrs. est. $65,000 and approximately 1 mi. Gibbs Ave. N. E. from 12th to 19th Sts., to Burd Constr. Co., 1043 Spring Ave. N. E., $58,972 engrs. est. $60,000; also asphalt paving Warner Rd. S. E. from Tuscarawas St. E. to Shorrick Rd. S. E., to General Asphalt Paving Co., 312 3rd St. S. W., $63,591 engrs. est. $65,000. Grand total $185,909.

O., Cleveland—Cuyahoga Co., to Winterbottom-Connelly Co., 1426 West 25th St., bituminous concrete paving Chardon Rd. $6,165, Kinsman Rd. $5,078, South Miles St. $8,034, and St. Clair Rd. $3,240; to Bituminous Constr. Co., Marshall Bldg., Lorain Rd. $4,263, and York Rd. $12,693. Grand total $39,473.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, to Regenhardt Constr. Co., Cape Girardeau, Mo., concrete paving Route 36, Sect. 14 $75,236, Route 36, Sect. 15 and $75,554, Route 36, Sect. 16 $65,682, all Pike Co., to G. A. Hackett, Decatur, Route 26, Sect. 6, Jersey and Greene Counties $118,000, to Powers-Thompson Constr. Co., Joliet, Route 22, Sect. 14-S, Will Co. $22,472, and to J. J. Dunnegan Constr. Co., Park Ridge, Route 19, Sect. 86-W-2, Cook Co. $11,966; to Cameron, Joyce & Co., Keokuk, Ia., grading Route 39, Sects. 1-A and 2-A, McLean Co. $31,034, and to Smith Bros. Constr. Co., Decatur, Route 38, Sect. 3-A, Jersey Co. $32,042. Grand total $431,996. Noted Mar. 4 and 18 and Apr. 15.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, grading, curbing, guttering, sewers and asphalt on 6 in. concrete paving Barry Ave. from North Kedzie to North Central Park Aves., North Lotus Ave. from West North to Wabansia Aves., and Potomac Ave. from North Levergne to North Laramie Aves., to White Paving Co., 1735 Fullerton Ave., West 105th Pl. from Prospect Ave. to South Wood St., Winchester Ave., South Monroe and South Lincoln Sts. from West 79th to West 83rd Sts., West 80th St. from South Hermitage Ave. to South Robey St., West 81st and 82nd Sts. from South Wood to South Robey Sts. and West 83rd St. from South Lincoln to South Robey Sts., grading, curbing, guttering, sewers and asphalt on 8 in. concrete paving South California Ave. from West 31st to West 35th Sts., grading, curbing, guttering, sewers and reshaping present macadam to serve as foundation and paving with 2 in. asphaltic concrete West 103rd St. from South Wood St. to Longwood Dr., to Amer. Asphalt Paving Co., grading, curbing, guttering, sewers and asphalt on 6 in. concrete paving East 41st St. from Ellis to Oakenwald Aves., to R. F. Conway Co., 844 Rush St.; grading, sewers and granite asphaltic macadam on 10 in. limestone paving West 104th St. from South Hoyne Ave. to South Leavitt St., to Smith & Brown Co., 111 West Washington St.; grading, curbing, guttering, sewers and 10 in. concrete paving West 63rd St. from South Cicero to South Central Aves., to Hedges Constr. Co., 64 West Randolph St.; grading, curbing and 8 in. concrete paving North Robey St. from Pratt to Devon Aves. to J. A. Ross & Co., 4561 Armitage Ave., Wabansia Ave. from North Lamon to North Laramine Ave., to J. A. McGarry & Co., 4556 Patterson St., West 70th St. from South Irving to South Western Aves.; South Irving, South Oakley and South Claremont Aves. from West 69th to West 71st St. to Central Paving Co., 179 West Washington St., North Lamon Ave. from Sunnyside to Pensacola Aves., Lacrosse Ave. from Sunnyside to Montrose Aves., Laporte Ave. from Chicago & Northwestern R.R. right-of-way to Montrose Ave., North Lavergne Ave. from Montrose to Pensacola Aves. and Montrose Ave. from Milwaukee to North Cicero Aves. to J. A. Sackley Co., 4608 Belmont Ave., grading, curbing, guttering, sewers and asphalt on 6 in. concrete paving Thorndale Ave. from North Mason to Markham Aves., North Mason Ave. from Milwaukee to Elston Aves. and Markham Ave. from Milwaukee to Elston Aves. to Contracting & Material Co., 844 Rush St. Noted Apr. 1.

Wisconsin—State Hy. Dept., Madison, to Simpson-Parker Co., Appleton, improving South Germantown-West Bend Rd., Federal Aid Project 352-B, Washington Co., 31,595 cu.yd. earth excav. at $0.65 per cu.yd., 750 cu.yd. loose rock excav. $1.75, 991 cu.yd. solid rock excav. $3.25, 1,184 cu.yd. borrow $0.80 and 49,787 sq.yd. concrete paving $1.92, etc., total $141,061.

Ia., Dubuque—Dubuque Co., to Ulrich & Paley, Dubuque, improving Federal Aid Project 17, 11,395 cu.yd. stone 1 mi. haul at $2.14 per cu.yd., 2,400 cu.yd. $1.90, and 1,550 cu.yd. $1.75, to Interstate Constr. Co., Swea City, 19,785 cu.yd. gravel 1 mi. haul at $0.39, 285,800 units ½ mi. haul $0.079, 4,300 cu.yd. stripping $0.23 and 75 cu.yd. $0.25.

Ia., Marquoketa — Jackson Co., grading 11.791 mi. Primary Rd. 61, Federal Aid Project 143, to E. Sask, Cedar Rapids, $72,908. Noted Apr. 22.

Ia., Marshalltown—Marshall Co., improving 19.098 mi. Projects 6 and 14, 140,356 cu.yd. excav., 67,000 sta.yd. overhaul, etc., to Fox Constr. Co., Forest City, $48,784. Noted Mar. 4.

Minn., Anoka — To Fielding & Shepley, 216 University Ave., St. Paul, improving streets, about 27,000 sq.yd. lake asphalt on 6 in. concrete paving at $2.45 per sq.yd., and 10,500 ft. concrete curbing $0.70. Noted Feb. 4.

Kan., Perry — Concrete paving various streets, to P. Baldwin, Perry, $25,827. Noted Apr. 8.

Neb., Holdrege — For 7 in. rein.-con. paving, etc. 13,270 yd. various streets, to Roberts Constr. Co., 415 1st Natl. Bank Bldg., Lincoln, $36,508.

N. D., Rolla—J. H. Penny, aud. Rolette Co., grading, etc., 59,453 cu.yd. Federal Aid Project 263-E, to J. Coghlan, St. Johns, $26,603.

Missouri—State Hy. Dept., Jefferson City, to M. E. Gillioz, Monett, 30 ft. grading 4.142 mi. Clever-Nixa Rd., Christian Co. $22,970, and 4.369 mi. same road $52,911, to J. M. Roark & Sons, Anderson, 3.75 mi. Kansas City-Joplin Rd., Bates Co. $24,242, and 4.887 mi. same road $25,985, to Winstead & Gunter, Siloam Springs, Ark., 3.553 mi. Kansas City-Joplin Rd., Bates Co. $12,761, and 4.072 mi. same road $18,176, to Carte-Harlin Constr. Co., West Plains, 4.886 mi. road from Cabool east, Texas Co. $42,965, to L. W. Spengler, 6015 Forest St., Kansas City, 0.734 mi. Boonville-Bellair Rd., Cooper Co. $6,532, to A. W. Mosley, 2006 East 40th St., Kansas City, 4.136 mi. road from Warrensburg north, Johnson Co. $35,389, and to F. Kersting Co., Jefferson City, 1.764 mi. road from Brule, Iron Co. $42,560; to Hannibal Constr. Co., Hannibal, 18 ft. graveling 4.034 mi. road from Canton north, Lewis Co. $30,775, 4.253 mi. same road $42,382, to J. R. Burner, Oblong, Ill., 4.243 mi. Fairplay-Humansville Rd., Polk Co. $24,459, to H. A. Worman, Pittsfield, Ill., 4.318 mi. Brunswick-Keytesville Rd., Chariton Co. $6,362, and 2.06 mi. same road $7,361, and to C. K. Kost, Joplin, 3.769 mi. Pomona-West Plains Rd. $10,636, 3.802 mi. same road $11,707, 4.109 mi. road from West Plains west $8,462, and 3.563 mi. Pomona-West Plains Rd. $13,938, all foregoing in Howell Co., to W. P. McGeorge & Co., Pine Bluff, Ark., grading and 18 ft. concrete paving 3.191 mi. road from Fulton north, Callaway Co. 57,201, 3.199 mi. same road $65,363, and 4.445 mi. road from Washington south Franklin Co. $87,890, to C. H. Atkinson Paving Co., Watertown, S. D., 1.095 mi. Stanberry-Albany Rd., Gentry Co. $21,392, and to Du Bois & Co., Pittsburg, Kan., 1.12 mi. Lamar-Route 1, Barton Co. $30,521;

Streets and Roads (Continued)

$154,879, 2,598 ft. A. 3995, Tioga Co., from Montour Constr. Co., Box 71, Montoursville, $21,613, 15,286 ft. R. 296, A. 4000, Susquehanna Co., from Freeland Constr. Co., 104 South Locust St., Hazleton, $116,664, and 7,234 ft. R. 129, Dauphin Co., from Swanger-Fackler Constr. Co., Inc., 2nd and Canal Sts., Lebanon, $88,087; also grading, etc., 11,466 ft. R. 33, Mifflin Co., from Shamrock Contg. Co., Box 13, St. Davids, $108,437. Noted Apr. 1.

Maryland—State Rds. Comn., Baltimore, Apr. 20, concrete paving 1 mi. Contr. Wi-35, Wicomico Co., and concrete shoulders on 4 mi. Contr. Wo-5-B, Worcester Co., from P. D. Phillips & Bros. Salisbury $19,-295 and $13,774 respectively; concrete paving 1 mi. Contr. CI-26 Carroll Co., from Poffinberger & Mause, Myersville $21,337, 1.27 mi. Contr. H-47, Harford Co., from G. A. Atkinson, Port Deposit $43,044, and 1 mi. Contr. H-49, Harford Co., from Ward & O'Connell, New Amsterdam Bldg., Baltimore, $21,813; concrete shoulders on 3.35 mi. Contr. M-10-C, Montgomery Co., from F. D. Carozza, Garrett Bldg., Baltimore $26,663, 4.95 mi. Contr. AB-1-B, Anne Arundel Co., from Development & Constr. Co., Amer. Bldg., Baltimore $34,638. Noted Apr. 8.

Maryland — State Roads Comn., Baltimore, Apr. 20, concrete shoulders and resurfacing 4.72 mi. Contr. P-3-B, Prince Georges Co., from Cranford Co., 3056 K St., Wash., D. C., $67,986. Noted Apr. 8.

Md., Baltimore — Bd. Awards, Apr. 21, concrete paving 15,300 sq.yd. Contr. 331, from Tydings, Marine Co., 236 Albemarle St., $42,671; sheet asphalt paving 18,800 sq.yd. Contr. 330, from Baltimore Asphalt Block & Tile Co., 1320 North Monroe St. $65,653, and 16,700 sq.yd. Contr. 329, from Amer. Paving Co., Montebello Ave. $62,673. Noted Apr. 15.

South Carolina—State Hy. Dept., Columbia, sand clay surfacing 6.8 mi. State Route 311, State Project 614-A, from J. L. Carroll, 1011 Barnwell St., Columbia $35,-839, and 3.6 mi. State Route 46, State Project 566-B, from Mayfield Constr. Co., Denmark, $18,507, both Berkeley Co. 5.2 mi. Highway 22, State Project 627-B, Fairfield Co., from W. B. Boyle Co., Sumter $69,315; also bridge on latter road, from R. W. Curtis, Lynchburg, Va., $17,285.

Florida — State Rd. Dept., Tallahassee, Apr. 14, clearing, grubbing, grading, paving, ect., 8.73 mi. road in St. Lucie Co., and 8.48 mi. road St. Lucie and Martin Counties, from Boone & Wester, St. Augustine, $54,245 and $55,996 respectively; paving on 8 in. compacted rock base 11.82 mi. road in Hamilton Co., from Duval Eng. & Contg. Co., 216 Dyal Upchurch Bldg., Jacksonville, $219,436, and 10.2 mi. road in Putnam Co., from T. B. Gillespie, Palatka, $190,-437; paving, etc., 5.16 mi. road in Polk Co., from W. P. McDonald Constr. Co., Lakeland, sheet asphalt $233,609, and bituminous concrete $237,424; also 10.2 mi. road in Bay Co., from Noonan-Lawrence, Box 1071, Pensacola, concrete $327,235, from Hodgson & Jones, 1st Natl. Bank Bldg., Montgomery, Ala., bituminous concrete $385,359. Noted Mar. 25.

Louisiana — State Hy. Comn., Baton Rouge, Apr. 15, paving with **(a)** Alabama rock asphalt **(b)** Uvalde rock asphalt **(c)** Warrenite bitulithic **(d)** sheet asphalt **(e)** rein.-con. **(f)** gravel 3.97 mi. West End-Carrolton Avenue Highway (new Basin Canal Shell Rd.) Orleans Parish, from Holland Constr. Co., Memphis, Tenn., **(a)** $154,152, from Southern Uvalde Rock asphalt Co., 3905 Gravier St., New Orleans **(b)** $160,647, from Lang & Craven, 2500 Poydras St., New Orleans, **(c)** $163,136 and **(e)** $164,706 7.13 mi. Shreveport Marshall Highway, Caddo Parish, from Southern Roads Co., Whitney Bldg., New Orleans, **(c)** $306,485, from Meyer Greenwald Constr. Co., Monroe, **(d)** $286,298, from J. J. Harrison, Oklahoma City, Okla., **(e)** $231,264; 7.49 mi. Monroe-Winnsboro Highway, Richland Parish, from Alexandria Constr. Co., **(f)** $77,739; 7.47 mi. Liconia-Opelousas Highway, St. Landry Parish, from Mumford Phillips, Baton Rouge, **(f)** $128,208; 6.65 mi. Campti-Coushatta Highway, Natchitoches Parish, from Hankins Bros., Natchitoches, **(f)** $43,042. Noted Mar. 25.

O., Akron—W. F. Peters, dir. Pub. Serv., Apr. 12, **(e. e. means engrs. est.)**, from J. Hurak, 617 Brown St., grading, walks and cindering 2,000 cu.yd. Stanton Ave. et al, $17,945 e. e. $23,500; from Columbus Asphalt Paving Co., 304 Buckeye Bldg., grading, curbing, walks and vitr. brick paving 13,260 sq.yd. Inman St., $81,054 e. e. $101,-200; 5,650 sq.yd. Gertrude St. et al, $36,151 e. e. $44,400, grading, curbing, walks, ornamental lighting system and vitr. brick paving 7,700 sq.yd. Sunset View and Stadelman Aves., $57,047 e. e. $72,000, and 6,055 sq. yd. Bacon Ave., $31,400 e. e. $38,900. Noted Mar. 11.

O., Cleveland—Comrs. Cuyahoga Co., Apr. 14, grading and travelbound macadam paving 3,000 sq.yd. River Rd. 3, from Chapman & Harris, 3305 Hyde Park Ave. $71,429.

O., Upper Arlington (Columbus P. O.)—N. W. Copeland, village clk., Apr. 7, grading, curbing, guttering, sheet asphalt paving 46,005 5 sq.yd. etc. Baldridge, Suffolk, Twesbury, Beverly, Wickford, Chatfield, Berkshire, Collinswood, Andover, Coventry, Henthorne, Parkway, Kent, York and Wilshore Rds., from B. F. Patterson, 1214 Neil Ave., Columbus, $247,737. Noted Apr. 1.

Wis., Milwaukee—Dept. Pub. Wks., from F. Doherty Co., 37th St. and Fond du Lac Ave., grading Auer Ave. $5,911, from Froemming Bros., 1326 Humboldt Ave., Bonny Pl. $5,647, and 38th St. $5,119, from Bartel-Mauer Co., 925 Muskego Ave., 41st St. $14,631, from Schroeder Constr. Co., 1009 Lake Blvd., 44th St. $10,095, from R. H. Gumz, 831 13th Ave., 59th St. $3,355, and 36th St. $10,634, also granite block paving Jackson St. $33,849; from J. Bluhm & Son, 1298 Achilles Pl., vibrolithic concrete paving 40th St. $9,601, and Hadley St. $7,576, from A. E. Retzlaff, 868 Island Ave., 51st St. $6,862, 57th St. $10,389, 60th St. $4,817, and 12th St. $2,074, from Reid & Mahlberg, 818 Lake Blvd., Galena St. $8,300, and from Milwaukee General Constr. Co., 427 Mitchell St., 34th St. $3,922, and 14th Ave. $3,180.

Wis., Kaukauna—L. C. Wolf, city clk., Apr. 20., vibrolithic concrete paving 11,577 sq.yd. Taylor and Depot Sts., from J. McCarthy Constr. Co., Kaukauna, $37,000. Noted Apr. 8.

Minn., St. Paul — A. E. Eggert, city purch. agt., Apr. 13, paving Dale St. between Como Ave. and Wheelock Parkway, 11,878 sq.yd. 2.5 in. brick and 2,449 sq.yd. tarvia or penetration asphalt, from Thornton Bros., 318 Endicott Bldg., $46,731. Noted Apr. 8.

North Dakota — State Hy. Dept., and Comrs. Adams Co., Hettinger, grading, Apr. 13 55,977 cu.yd. Federal Aid Project 243-C, from Shelp & Malloy, Lemmon, S. D., $25,-919. Noted Apr. 1.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making plans grading, brick or concrete paving alleys in City Blocks 368, 677, 1082, 1315, 1966, 2442, 1505, 2633, 2810, 2917, 4082, 4487 S, 4822, 5120, 5321, 5464 and 5830. Concrete $72,230 and brick $107,700. W. W. Horner, 300 City Hall, engr.

Tex., Abilene—Taylor Co. grading and bridging 5.739 mi. Highway 1, Federal Aid Project 468-B, Unit 1, from Sullivan & Davis, Granger, approximately $25,000. Noted Apr. 8.

Colorado—State Hy. Dept., Denver, Apr. 15, paving 4.795 mi. State Highway 1, Federal Aid Project 275-C, El Paso Co., from J. L. Busselle & Co., 203 Swope Ave., Colorado Springs, $186,585. Noted Apr. 8.

Colo., Denver—Dept. Impvts. & Parks, from New Mexico Constr. Co., 4015 Galapago St., asphaltic concrete paving East Denver Paving Dist. 20 $39,721, and Dist. 21 $38,014; from Western Paving Constr. Co., 5230 Washington St., Dist. 22 $35,512, Dist. 25 $36,350, and Dist. 26 $38,707.

California—State Hy. Dept., Sacramento, Apr. 12, grading, surfacing, etc., 4.5 mi. road between Dog Creek and Lamoine, Shasta Co., from Pollock Co., Forum Bldg., Sacramento, $272,598; also concrete shoulders and asphaltic concrete surfacing 7.8 mi. road from Modesto to Stanislaus River, Stanislaus Co., from Valley Paving & Constr. Co., Visalia, $163,481.

Calif., Los Angeles—Bd. Supervs. Los Angeles Co., Apr. 5, from Griffith Co., Railway Bldg., improving portion of California Ave., 4,898 cu.yd. excav. at $0.50 per cu.yd., 148,952 sq.ft. Willite surfacing $0.09, 148,-952 sq.ft. asphaltic concrete base $0.085, etc., total $66,465. Noted Mar. 11.

Calif., Los Angeles—From G. H. Oswald, 366 East 56th St., improving Neptune Ave., 50,621 lin.ft. curbing at $0.45 per lin.ft., 114 lin.ft. guttering $0.22, 7,303 combination guttering $0.23, 300,175 sq.ft. sidewalk $0.125, 166,351 sq.ft. 6 in. asphaltic concrete paving $0.215, 1,152,418 sq. ft. 7 in. concrete base $0.20, and 1,325 sq. ft. 8 in. concrete base $0.22, etc., total $404,479. Engrs. est. 468,214. Noted Apr. 22.

Calif., San Diego—Common Council, Apr. 12, from Griffith Co., 25 14th St., improving Dale St. between Beech and Juniper Sts., 149,996 sq.ft. 1½ in. asphaltic concrete on 5 in. concrete paving at $0.229 per sq.ft., 81 sq.ft. concrete sidewalk $0.22, 42 lin.ft. concrete curbing $0.65, etc., total $36,005; from R. E. Hazard Contg. Co., 2548 Kettner Blvd., Oregon St. between University and El Cajon Aves., 120,551 sq.ft. 1½ in. asphaltic concrete on 5 in. concrete paving $0.225, 422 sq.ft. concrete sidewalk $0.22, 37 lin.ft. concrete curbing $0.75, etc., total $29,507; also from G. R. Daley, 445 Boundary St., Collier, Arizona St., etc., 227,367 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete paving $0.219, 8,467 sq.ft. concrete sidewalk $0.22, 300 lin.ft. curbing $0.65, etc., total $61,496. Noted Apr. 1.

Calif., Santa Rosa—Supervs. Sonoma Co., Apr. 13, from A. Teichert & Sons, 18[illegible] 27th St., Sacramento, improving Petaluma-Sonoma Rd., 7,600 cu.yd. excav. at $1.14 per cu.yd., 260,386 sq.ft. 5 in. Willite asphaltic concrete paving $0.214, etc., total $65,540.

Contracts Awarded

R. I., Warwick — Metropolitan Park Comn., Providence, graveling 1.6 mi. Narragansett Parkway from Spring Green Rd. to Bayside Ave., here, to Warren Landscape & Eng. Co., Warwick Neck St., $2[illegible]602. Noted Apr. 15.

Connecticut — J. A. Macdonald, Comr. State Hy. Dept., Hartford, grading [illegible] ft. highway and grade crossing elimination over New York, New Haven and Hartford R.R. tracks, etc. at Saybrook Junction, to L. E. McLaughlin, 200 Jefferson Ave., New London, $53,614; rein.-con. paving [illegible] ft. Willimantic Putnam Rd. in Chaplin, to J. Arborio, 59 Center St., New Haven $157,-141, and 28,719 ft. New Haven Middletown Turnpike, in Middletown, to F. Arrigoni & Sons, Inc., 624 Main St., Middletown; $214,647. Grand total $405,402. Noted Apr. 15.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., relocating curb on easterly side Nagle and St. Nicholas Aves., etc., to Valatia Constr. Co., 15 East 40th St., $2,393; grading and sheet asphalt repaving Bway., to Gaffney Constr. Corp., Grand Central Terminal Bldg., $133,-837; grading, curbing and granite block paving East 138th St., to St. George Paving Co., 90 West St. $10,775, and Madison St., to Casper Helbock Co., Inc., 633 Wales Ave., $186,971; grading, curbing and flagging Payson Ave., to T. DiRoma, 33 Evelyn Pl., $38,419. Grand total $352,395. Noted Apr. 22.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sheet asphalt repaving Prospect Ave. from Boston Rd. to Crotona Park West, and Claremont Parkway from 3rd to Fulton Aves., to Interboro Asphalt Paving Co., 2306 Creston Ave., $12,778 and $15,771 respectively. Noted Apr. 22.

N. Y., Poughkeepsie — Bd. Pub. Wks., Eastman Park Mansion, grading, curbing and 2 in. sheet asphalt on concrete paving 27,600 sq.yd. Verazzana Blvd., Mack Rd., Grand, Worral, Hoffman, Fulton and Fairview Aves., Baker, Grubb, Lent and High Sts., to Spoor-Lasher Co., 54 Market St., $139,840. Noted Apr. 1.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, granite block paving Delafield Pl., etc., to J. Johnson Sons, 455 Bway., West New Brighton, $20,-904; bituminous concrete repaving Morningstar Rd., etc., to J. E. Donovan Paving Co., 2205 Richmond Terrace, $42,664; and repaving Hylan Blvd., to Vanbro Constr. Corp., 24 Elizabeth St., West New Brighton, $121,997. Grand total $185,565. Noted Apr. 8 and 15.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete paving Tompkins St., to J. E. Donovan Paving Co., Richmond Terrace, Port Richmond, $30,883; and concrete paving in yard of garbage destructor at West New Brighton, to Richmond Paving Co., Ft. Wadsworth, $3,419. Noted Apr. 22.

N. J., Elizabeth — Elizabeth Paving Co., grading, curbing, sidewalks and asphaltic concrete paving Grier Ave. $14,282, Amity St. $24,103, Essex and Middlesex Turnpike $17,416, 1st St. $27,986, Keats Ave. $20,390 and Clark Ave. $14,508; to Standard Bitulithic Co., 50 Church St., New York City, Colonia Rd. $22,023, and West Jersey St. $29,528; to J. B. Gilligan-Casey Co., 972 Broad St., Newark, Sayre St. $24,800, Pennsylvania Ave. $62,687, and 3rd Ave. $28,705. Grand total $286,427.

N. J., Red Bank—Monmouth Co. (Freehold) reconstructing 3 mi. Red Bank-Homedell Rd., to P. Camillo & Co., 335 Spring St., $148,191. Noted Mar. 4.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to D. Duffin, 5101 Roosevelt Blvd., grading Anchor St. $730, Brill St. $965, and Summerdale St. $8,985, to Gudnecht & Cullison, Torresdale and Robbins Sts., Bleigh and Whitaker Sts. $2,094, and Levick St. $3,086, to T. P. Lee, 5629 Cherry St., Callowhill and Girard Sts. $21,135, to Dewees Bros., 7200 Shelbourne St., Hunting Park, Cayauga, Claridge, Dungan, Glendale, Howland, Luzerne, Markland, Maywood, N. Neilson and Ormond Sts. $57,267, Frontenac and Loretta Sts. $4,401, to D. C. Ratzell, Limekiln Pike and Haines St., Cornelius, Herman and Tulpehocken Sts. $12,025, to

Streets and Roads (Continued)

to J. Kesl & Sons, Edwardsville, Ill., grading and 9 ft. concrete paving 2.924 mi. Millard-La Plata Rd., Adair Co. $19,042, 2.879 mi. same road $18,808, 3.92 mi. La Plata-Macon Rd., Macon Co. $35,234, 3.796 mi. same road $35,931, 4.17 mi. road from La Plata south, Macon Co. $27,275, and 4.445 mi. roads from La Plata north and south $32,985, all in Macon Co., to W. C. Meneely & Co., Decatur, Ill., 2.695 mi. Lineville-Mercer Rd. $18,825, 2.476 6mi. same road $17,-127, and 4.919 mi. Mercer-Princeton Rd. $33,811, all in Mercer Co.; to Maney Bros. & Co., Oklahoma City, Okla., 30 ft. grading 4.349 mi. road from Ava east $57,844, and 4.583 mi. road from Ava north $38,063, both in Douglas Co., 4.025 mi. Iowa State Line-Bethany Rd., Harrison Co. $50,776, and 4.053 mi. same road $47,922; and to A. P. Poirot, Belleville, Ill., 18 ft. chats surfacing 2.419 mi. road from Ash Grove west, Greene Co. $38,813. Grand total $1,165,316. Noted Apr. 15.

Tex., Waco—Paving Webster Ave. from 3rd to 11th Sts., to Standard Paving Co., 524 Provident Bldg., $51,171.

Okla., Oklahoma City — Concrete widening 5,510 sq.yd. South Robinson St., to M. A. Swatek, 519 West Main St., $30,897. Engrs. est. $32,164. Noted Jan. 7.

Colorado—State Hy. Dept., Denver, paving approaches to bridge north of Las Animas, in Bent Co., also paving 0.3598 mi. State Highway 6, Federal Aid Project 169-R and 290-B, to F. C. Dreher, 1634 Madison St., Denver, $23,933; grading 7.565 mi. Federal Aid Project 287-B, Weld Co., also 324 ft. timber bridge and graded approaches over Middle Bijous Creek, State Aid Project 569, Arapahoe Co., to A. R. Mackey, Sterling, $115,730 and $13,202 respectively; paving 6.662 mi. State Highway 1, Federal Aid Project 2-R, Div. 4, Las Animas Co., also 0.3229 mi. State Highway 6, Federal Aid Project 272-C, Pueblo Co., to Strange & McQuire Co., Box 622, Pueblo, $301,484 and $10,243 respectively. Grand total $463,692. Noted Apr. 22.

Wash., Bellingham—Whatcom Co., completing paving Wickersham Rd., to L. Romano & Co., 123 23rd Ave. S., Seattle, $26,500.

Wash., Tacoma—Bd. Pub. Wks., widening South Tacoma Way, doubling present pavement, to Albertson, Cornell Bros. & Walsh, 2 South Tacoma St., Tacoma, $59,-493. Engrs. est. $75,849.

Calif., Los Angeles—Bd. Pub. Wks., curbing, guttering, paving, etc., 217,352 sq.ft. portion Sayre Ave., to E. L. Fleming, 144 South Brand Blvd., $120,487. Noted Apr. 8.

Calif., Los Angeles — Los Angeles Co., curbing guttering, grading and 6- to 8-in. concrete paving, etc. Ocean and College Aves. from Gallatin and College Rd. to north city limits of Long Beach, to T. W. Oglesby, 423 Edgewood Rd., Santa Ana, $102,862. Noted Apr. 15.

Calif., Oakland—Supervs. Alameda Co., grading, graveling, 2 in. Warrenite on 6 in. concrete surfacing, etc.,—Washington Ave. between San Leandro and San Lorenzo, to Heafey-Moore-McNair, 344 High St., $109,331. Noted Apr. 1.

Buildings—Commercial

Proposed Work

Mass., Boston—APARTMENT—J. Arnello, 96 Porter St., East Boston, having preliminary plans prepared by B. C. Gallo, 42 Maverick Sq., East Boston, 3 or 4 story and basement, brick, Chelsea St. $150,000-$200,000.

Mass., Boston — HOSPITAL — Commonwealth of Massachusetts, Health Dept., State House, plans Massachusetts Sanatarium, for cancer patients. $500,000. Engineer and architect not selected.

Mass., Chelsea (br. Boston)—APARTMENT—Levin & Gold, 5 Everett Ave., having sketches made by Schein & Levine, 448 Bway., 3 story and basement, brick, Chester St. and Shurtleff Ave. $200,000.

Mass., Everett (br. Boston) — BANK — First Natl. Bank, 453 Bway., having preliminary plans prepared by Hutchins & French, 11 Beacon St., Boston, 2 story and basement, rein.-con.., brick and stone, Bway. and Cottage St. $150,000 or more.

Mass., Fitchburg—THEATRE—E. L. Snider, 18 Tremont St., Boston, plans brick and steel, 2,500 seating capacity, Main St. $250,000. Engineer and architect not selected.

Mass., Roxbury (Boston P. O.)—APARTMENT—A. Shapiro, 73 Cornhill, Boston, having plans prepared by Silverman, Brown & Heenan, 51 Cornhill, Boston, 5 story and basement, Maple St., here, $200,000.

Conn., Hartford — OFFICE — Hartford City Gas Light Co., 565 Main St., plans brick and steel office, Pearl St. $250,000.

N. Y., Albany—GARAGE, SERVICE and REPAIR STATION—Owner, c/o O. Goldschlag, engr. and archt., 1482 Bway., New York City, having plans prepared 2 story, rein.-con., brick and steel, plain foundation, Hamilton St., here. $150,000.

N. Y., Brooklyn—APARTMENT—Asen & Levinson, c/o Shampan & Shampan, engrs. and archts., 188 Montague St., having plans prepared 5 story, brick, steel and stone, plain foundation, Bedford Ave. and Keap St. $250,000.

N. Y., Brooklyn — HOSPITAL — Wykoff Heights Hospital, St. Nicholas Ave., having plans prepared by Crow, Lewis & Wick, engrs. and archts., 200 5th Ave., New York City, 4 story, 100 x 150 ft., brick, steel and stone addition, plain foundation, St. Nicholas Ave.

N. Y., Brooklyn—THEATRE, STORE and OFFICE—Loews Inc., 1560 Bway., New York City, having plans prepared by T. W. Lamb, engr. and archt., 644 8th Ave., New York City, brick, steel and stone, plain foundation, 8th and 9th Sts. from 5th to 6th Aves., here.

N. Y., Far Rockaway—APARTMENT—A. Baylies, engr. and archt., Bible House, New York City, preparing plans brick, steel and stone, plain foundation, here. $500,000. Owner's name withheld.

N. Y., New York—APARTMENTS—C. Cioffi, c/o L. Pisciotta, engr. and archt., 563 East Tremont Ave., having plans prepared two 6 story, brick, steel and stone, plain foundations, Cypress Ave. $200,000 each.

N. Y., New York—APARTMENT—Sonai Realty Corp., c/o C. M. Meyers, engr. and archt., 31 Union Sq., having plans prepared 5 story, brick, steel and stone, plain foundation, Manor Ave. $150,000.

N. Y., New York — CLUBHOUSE — New York Athletic Club, R. M. Thompson, chn. building com., 6 East 43rd St., having plans prepared by York & Sawyer, engrs. and archts., 100 East 42nd St., 25 story, brick, steel and stone, plain foundation, 58th St. and 7th Ave. $7,500,000. Noted May 21, 1925.

N. Y., Syracuse — HOSPITAL — State Hospital Comn., Albany, plans state psychiatric hospital, at Syracuse University, here.

N. J., Atlantic City—HOTEL—Sea Side Hotel, c/o F. P. Cooks Sons, having revised plans prepared by Lockwood, Greene & Co., engrs. and archts., 24 Federal St., Boston, Mass., 13 story, brick, steel and stone, plain foundation, Pennsylvania Ave. near Boardwalk. Noted Mar. 25.

N. J., East Orange—DEPARTMENT STORE—R. H. Muir & Co., having plans prepared by Starrett & Van Vleck, engrs. and archts., 393 7th Ave., New York City, altering brick, steel and stone, plain foundation, Prospect and Main Sts., here. $200,-000.

Pa., Phila.—BUS GARAGE—Phila. Rapid Transit Co., 8th and Dauphin Sts., soon lets contract 1 story, 150 x 340 ft., rein.-con. and brick, plain foundation, Comly and Penn Sts. Private plans.

Md., Baltimore—BANK—Federal Reserve Bank of Richmond, South and Redwood Sts., having plans prepared by Parker, Thomas & Rice, Union Trust Bldg., 5 story and basement, 100 x 125 ft., steel and limestone, plain foundation, Lexington and Calvert Sts. $1,000,000. Noted Mar. 25.

S. C., Charleston—BARRACKS—Citadel Military Academy & State of South Carolina, having plans prepared by Lockwood, Greene & Co., Spartanburg, barracks building. $300,000.

Fla., De Land—HOTEL—C. McFerrin & Associates, having plans prepared by J. W. Carpenter, De Land, Hotel Casa McFerrin, near County Club. $1,000,000.

Ala., Sheffield—CITY HALL—City having plans prepared by H. J. Frahn & D. L. Sigmon, Sheffield, city hall. $150,000 bonds sold.

Miss., Gulfport—CLUBHOUSE—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

La., New Orleans—HOSPITAL—Andry & Feitel, archts., Carondelet Bldg., soon take bids 2 story and basement, brick and concrete addition, pile foundation, Annunciation St. between Matia and Melpome Sts., for Soniat Mercy Hospital. $255,000. Noted Feb. 11.

La., New Orleans — HOTEL — Gulfport Com. headed by A. L. Jagoe, vice-pres. First Natl. Bank, Gulfport, Miss., et al., plan Charles H. Markham Hotel 8 story, brick, steel and stone on 123 x 265 ft. site, Herald Sq., 23d Ave. and 14th St. $1,000,-000.

La., Ruston—OFFICE—T. L. James Co., Ruston, soon takes bids 5 story, 40 x 100 ft., rein.-con., brick and steel Mississippi St. Witt, Seibert & Halsey, Texarkana Ark., engr.

La., Shreveport—COURTHOUSE—Caddo Parish, J. M. Sentell, pres. Police Jury, takes bids after June 1, 8 story and basement, 120 x 220 ft., rein.-con., brick and stone plain foundation. $1,000,000. E. F. Neild, 1206 City Bank Bldg., archt. Noted Mar. 18.

Tenn., Memphis—BANK and OFFICE—Liberty Savings Bank & Trust Co., Porter Bldg., having plans prepared by Jones & Furbringer, Porter Bldg., and Regan & Weller, Memphis, and takes bids about May 1, 6 story, 43 x 114 ft. with 26 x 50 ft. addition, concrete, brick, marble, bronze and terra cotta, South 2nd St. $250,000. Noted Oct. 8.

O., Cleveland—APARTMENT HOTEL—M. B. Abrams, Society for Savings Bldg., plans 3 story, brick, Lake Shore Blvd. $200,000. Engineer and architect not selected.

O., Cleveland—COMMERCIAL THEATRE and GYMNASIUM—S. J. A. Kamensky, c/o F. J. Hronek, archt., 344-3 East 110th St., having plans prepared 3 story and basement, 70x220 ft., brick, East 131st St. and Melzer Ave. $150,000.

O., Cleveland—COMMUNITY CENTER—Phillis Wheatley Assn., J. Hunter, secy., 2269 East 40th St., having plans prepared by Hubbell & Benes, 4500 Euclid Ave., 10 story, brick, steel and concrete, Cedar Ave. $500,000.

O., Dayton—HOTEL—Caldwell & Son, Indianapolis, purchased site and having plans prepared by F. J. Hughes Co., U. B. Bldg., Dayton, 13 to 15 story, 180 x 200 ft., brick, rein.-con. and stone plain foundation, Main and 1st Sts., here. $2,000,000.

O., Lorain—LODGE and DANCE HALL—Trustees Lorain Moose Lodge take bids about May 21, 1 story and basement, 100 x 200 ft. lodge, dance pavilion and bath house, Lake Rd. at edge of Lake Erie. $150,000.

Ind., Ft. Wayne—OFFICE—Ft. Wayne Chamber of Commerce, having plans prepared by G. Mahurin, 501 Lincoln Life Bldg., 4 story and basement, brick and steel office building. $200,000.

Ind., Indianapolis — THEATRE and STORE—O. Markham, 4314 East New York St., having plans prepared 2 story, 82 x 136 ft., brick and steel theatre, incl. 2 stores, 3420-36 North Illinois St. $250,000.

Mich., Birmingham—LIBRARY—Village having plans prepared by Burrows & Eurich, 415 Brainard St., Detroit, 2 story and basement, rein.-con., brick and steel, plain foundation, Bates St. $150,000.

Mich., Detroit — GARAGE — Detroit Garages, Inc., Elizabeth St., having plans prepared 8 or 9 story, 80 x 100 ft., rein.-con. and brick addition, plain foundation, Elizabeth St. $200,000. Engineer and architect's names withheld.

Mich., Detroit — OFFICE and APARTMENT — Temple Methodist Episcopal Church, West Grand Blvd., having plans prepared by J. Ivan Dise, 324 McKerchey Bldg., 9 story and basement, 74 x 100 ft., rein.-con., brick and stone, plain foundation, West Grand Blvd. $850,000.

Mich., Detroit—THEATRE—Republic Investment Co., H. S. Koppin, 206 East Grand River Ave., had plans prepared by Kohner & Payne, 405 Kresge Bldg., 2 story and basement, 2,500 seating capacity, rein.-con. and brick, plain foundation, Mack and Chalmers Aves. $200,000.

Ill., Chicago—APARTMENT—H. Lanski, 77 West Washington St., had plans prepared by M. L. Bein, 64 West Randolph St. and soon takes bids 3 story and basement, 120 x 200 ft., brick and stone, 5520-5524 Blackstone Ave. $600,000.

Ill., Chicago—APARTMENT—H. Lanski, 77 West Washington St., had plans prepared by M. L. Bein, 64 West Randolph St., and soon takes bids 7 story and basement, 60 x 250 ft., rein.-con., brick and stone, 1148-1152 Sheridan Rd. $750,000.

Ill., Chicago—APARTMENT—Gallup & Joy, archts., 646 North Michigan Ave., takes bids about May 3, 5 story, 72 x 85 ft., rein.-con., brick and steel, 500 Barry St. $250,000. Owner's name withheld.

Ill., Chicago—APARTMENT—F. Becklenberg, 29 South La Salle St., had plans prepared by A. Johnson, archt., 77 West Washington St., and taking bids 13 story and basement, 75 x 135 ft., rein.-con., brick and terra cotta, plain foundation, 442 Wellington Ave. $750,000. R. A. Northquist, 77 West Washington St., engr.

Ill., Chicago—HOSPITAL—Garfield Park Hospital, 3813 West Washington Blvd., having plans prepared by Schmidt, Garden & Martin, 104 South Michigan Ave., 8 story and basement, 75 x 158 ft., rein.-con. and brick, 3821-3825 West Washington Blvd. $650,000.

Wis., Milwaukee — APARTMENT and BUSINESS—Chain Investment Co., c/o Rosman & Wierdsma, archts., 409 Bway., had plans prepared and soon takes bids 8

Buildings—Commercial (Continued)

story and basement, rein.-con., brick and steel, plain foundation, Grand Ave. $600,000.

Wis., Milwaukee — STORAGE — Hansen Storage Co., 134 Jefferson St., having preliminary plans prepared by Brust & Philipp, 405 Bway., 3 story, 102 x 575 ft., rein.-con. and brick, plain foundation, Erie St. $225,000.

Wis., Milwaukee — STORE and APARTMENT — F. Schaetzke, 1385 Lake Ave., had plans prepared by C. J. Keller & Son, 432 Bway., and soon takes bids 5 story and basement, 65 x 141 ft., brick and concrete, plain foundation, Grand Ave. $200,000.

Wis., Rhinelander—HOTEL—C. E. Blodgett, Central Ave., Marshfield, having preliminary plans prepared by Oppenhamer & Obel, Nicollet Bldg., Green Bay, 3 story and basement, 62 x 103 ft., brick and concrete addition, here. $150,000.

Minn., Minneapolis — HOTEL — Calhoun Beach Holding Co., H. S. Goldie, 929 Plymouth Bldg., plans 6 story and basement, rein.-con., brick and stone, West Lake St. and Dean Blvd. $500,000. Magney & Tusler, 126 South 9th St., archts.

Minn., St. Cloud—HOSPITAL—Schmidt, Garden & Martin, archts., 104 South Michigan Ave., take bids about May 15, 6 story, basement and sub-basement, 80 x 500 ft., rein.-con., brick, cut stone and granite hospital, here, for Sisters of Order St. Benedict, St. Joseph. $1,500,000.

Kan., Great Bend — AUDITORIUM — Chamber of Commerce plans 150 x 200 ft. auditorium. $250,000. Engineer and architect not selected.

Kan., Wichita — WAREHOUSE — Sears, Roebuck & Co., Arthington & Homan Sts., Chicago, Ill., plans 4 story and basement, 100 x 275 ft., rein.-con. and brick warehouse, here.

N. D., Minot—THEATRE—Finkelstein & Ruben, 425 Loeb Arcade, Minneapolis, Minn., plans 75 x 140 ft., rein.-con. and brick theatre, here. $250,000. Engineer and architect not announced.

Mo., Kansas City—BANK and OFFICE—City Bank, 1801 Grand Ave., takes bids about May 15, 7 story and basement, 84 x 115 ft., rein.-con., brick and Bedford stone, 18th and Grand Ave. $600,000. Holden, Price & Barnes, 1016 Baltimore Ave., archts. Noted Mar. 11.

Mo., Sedalia—HOTEL—Local Syndicate (forming), c/o Hockenbury System, Inc., 200 North 3rd St., Harrisburg, Pa., having preliminary plans prepared by H. L. Stevens Co., 30 North Michigan Ave., Chicago, Ill., 100 room hotel, here. $300,000.

Ark., Jonesboro—COURTHOUSE, etc.—Bd. Comrs., Craighead Co., E. C. Stack, chn. soon take bids 4 and 6 story and basement, rein.-con., brick and stone courthouse, jail and sheriffs residence. $400,000. J. P. Almand, 11707 Boyle Bldg., Little Rock, archt. Noted Nov. 26.

Tex., Abilene—HOTEL—Abilene Hotel Co., purchased site and plans 10 story, brick, stone, and rein.-con. hotel. $500,000.

Tex., Childress—HOTEL—C. C. Littleton & associates, plan 4 story, 100 x 115 ft., brick, concrete and steel hotel. $150,000.

Tex., Corpus Christi—OFFICE—S. Nixon and associates having plans prepared by Adams & Adams, Builders Exch. Bldg., San Antonio, 8 story and basement, 50 x 100 ft., brick, stone and rein.-con., North Bway. and Leopard Sts. $275,000.

Tex., Ennis—HOME—I. O. O. F. Widows & Orphans Home, c/o E. O. Vestal, secy., North Lexington Blvd., Dallas, purchased site and plans concrete and brick home, here. $155,000. Engineer and architect not selected.

Tex., Houston — FREIGHT DEPOT and WAREHOUSE—J. K. Sconland, div. freight agt. Missouri Kansas & Texas R.R., F. Ringer, ch. engr., St. Louis, Mo., soon lets contract 6 story 191 x 280 ft., rein.-con., steel, brick and tile, with 1 story, 53 x 220 ft., brick, cut stone and terra cotta wing, North Main and Shea Sts., here. $1,000,000. A. L. Sparks, Railway Exch. Bldg., St. Louis, Mo., archt. Noted Apr. 22.

Tex., Houston — GARAGE — M. E. Stewart, 1611 2nd Natl. Bank Bldg., having plans prepared by J. Eberson, 212 East Superior Ave., Chicago, Ill., 5 story, 52 x 100 ft., rein.-con., brick and tile, Milan St. between Rusk and Walker Aves. $175,000.

Tex., Olmito (mail Brownsville)—HOTEL—See "Unclassified."

Tex., San Angelo—HOSPITAL—Kansas City, Mexico & Orient Ry. Co., Wichita, Kan., W. L. Churchill, ch. engr., plans 50 room hospital, here. $150,000. Private plans.

Tex., San Antonio—CLUB—San Antonio Casino-Club, 303 Alamo Bldg., had plans prepared by Kelwood Co., engrs. and archts., c/o Travis Bldg., and takes competitive bids after May 15, 6 story and basement, rein.-con. and brick, plain foundation, Crockett and Presa Sts. $250,000. Noted July 2.

Tex., Texarkana — AUDITORIUM—City c/o W. W. Shaw, clk., having plans prepared by Will, Serbert & Helsey, 807 Texarkana Natl. Bank Bldg., brick, stone and rein.-con., East 3rd and Walnut Sts. $225,000.

Okla., Pawhuska—EXCHANGE—Southwestern Bell Telephone Co., 3rd Ave. and Bway., Oklahoma City, having preliminary plans prepared 4 story and basement, 50 x 140 ft., brick, plain foundation, Osage St., here. $180,000. R. J. Benzel, Pioneer Bldg., Oklahoma City, engr.

Calif., Pasadena — HOTEL — Maryland Hotel Co., East Colorado St., plans fireproof hotel. $1,000,000 or more.

Calif., Redlands — CLUB — Y. M. C. A. plans fireproof club. $150,000.

Calif., San Diego—STORE, OFFICE, etc.—Monarch Drug Co., 971 5th Ave., plans fireproof, 5th Ave. and Bway. $150,000.

Calif., San Francisco — APARTMENT — A. H. Larson, archt., 447 Sutter St., made preliminary plans 7 story and basement, rein.-con., in Richmond Dist. $150,000 or more. Owner's name withheld.

Calif., San Francisco—ARMORY—State, rejected bids new structural steel roof and minor additions, here. Noted Apr. 8.

Calif., San Leandro — CITY HALL — Defeated $175,000 bonds, city hall. Noted Mar. 25.

Calif., Santa Monica—HOTEL—Miramar Hotel Co. having plans prepared by W. W. Ache, 1616 4th Ave., Los Angeles (central unit), 10 story and basement, 125 x 130 ft., rein.-con., Ocean Ave. $1,250,000.

B. C., Vancouver — THEATRE — J. F. Langer (Langer Theatre Circuit), 553 Granville St., had plans prepared by Orpheum Theatre Architects, 112 South State St., Chicago, Ill., 2 story, 120 x 175 ft., rein.-con., Seymour and Smith Sts. $1,000,000. Townley & Matheson, archts., 325 Homer St., will superintend construction. Noted Oct. 22.

Bids Desired

Mass., Boston — APARTMENT — The Embassey, Inc., c/o J. S. Draper, 209 Washington St., taking bids 11 story and basement, 150 x 150 ft., rein.-con., brick and steel, plain foundation, Beacon St. $1,250,000. R. H. Doane, 162 Newbury St., archt.

Mass., Boston—STORE, GARAGE and WAREHOUSE—See "Contracts Awarded."

Mass., Milton (br. Boston)—THEATRE—See "Contracts Awarded."

Mass., Springfield — HOTEL — See "Contracts Awarded."

Conn., Hartford—CLUB—W. F. Brooks, archt., Lewis and Gold Sts., taking bids 2 story club, Lewis St., for University Club. $175,000. Noted Dec. 24.

Conn., Hartford — APARTMENT — See "Contracts Awarded."

Conn., New Britain—BANK—May 11, by Commercial Trust Co., 274 Main St., 6 story and basement, 50 x 140 ft., brick and stone, West Main St. $400,000. A. Hopkins, 415 Lexington Ave., New York City, archt.

Conn., West Haven (br. New Haven)—THEATRE — State Amusement Co., 195 George St., New Haven, taking new bids 2 story, 130 x 150 ft., brick and steel, Center St. and Campbell Ave., here. $200,000. C. H. Abramowitz, 42 Church St., New Haven, archt. Former bids rejected. Noted Apr. 1.

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York—DORMITORY—June 14, by J. J. McGrath, pres. Bellevue & Allied Hospitals, 26th St. and East River, 7 story, brick, steel and stone, plain foundation, 26th St. and 1st Ave. $2,500,000. McKim, Mead & White, 101 Park Ave., engrs. and archts.

Pa., Granville — CHILDRENS HOME — May 7, by Knights of Malta, and W. G. Eckles Co., archts., New Castle, 2 and 3 story, irregular shaped, brick, steel and hollow tile home. $250,000.

Pa., McKee Rocks—BANK—First Natl. Bank, and Simons, Brittain & English, archts., Magee Bldg., Pittsburgh, taking bids and open same about Apr. 28, 2 story and basement, 48 x 95 ft. bank. $150,000. Noted Apr. 8.

Pa., Oakmont — APARTMENT and STORE—See "Contracts Awarded."

Pa., Phila.—WAREHOUSE—May 4, by R. Benckert, Bellevue Court Bldg., 8 story and basement, 90 x 99 ft., rein.-con., brick and steel, 10th and Locust Sts., for Horn & Hardart, 210 South 10th St. $500,000. Noted Mar. 18.

Pa., Pittsburgh—HOSPITAL—St. Johns Hospital Assn., North Side and R. Martier, archt., Empire Bldg., taking bids 4 story and basement, 68 x 116 ft., brick and steel addition, Flemming Ave. $150,000.

Mich., Royal Oak (Ind. br. Detroit)—EXCHANGE—May 3, by Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., Detroit, 2 story and basement, 100x1[illegible] ft., rein.-con., brick and steel, plain foundation, here, for Michigan Bell Telephone Co., 1365 Cass St., Detroit, $150,000.

Ill., Chicago — APARTMENT — A. J. Ohrenstein & Hild, archts., 222 East Ontario St., taking bids 8 story, 62½ x [illegible] ft., rein.-con. and brick, 3941 Pine Grove Ave. $300,000. Owner's name withheld.

Ill., Chicago — HOTEL — W. Ro[illegible], archt., 35 South Dearborn St., taking bids 17 story and basement, 50 x 150 ft., rein.-con., brick and terra cotta, South Lake Shore Dr. between 55th and 56th Sts., for Flamingo Hotel Corp., c/o architect. $2,000,000. Noted Mar. 11.

Wis., Kenosha—CLUBHOUSE—Ma[illegible] by Kenosha Aerie Lodge 1055 F. O. E., J. M. Herrman, secy., 2 story and basement, 100 x 102 ft., brick and concrete addition, plain foundation, here. $150,000. Lindl & Schutte, 82 Wisconsin St., Milwaukee, archts. Noted Mar. 25.

Wis., Winnebago—HOSPITAL—State Bd. Control, A. W. Bagley, secy., State Capitol, Madison, taking bids 2 rein.-con., brick and steel buildings, plain foundations, $150,000. A. Peabody, State Capitol, Madison, archt. Noted Mar. 11.

Mo., Farmington — COURT HOUSE — May 14, by M. W. Crowder, clk., St. Francois Co., 3 story and basement, 90 x [illegible] ft., rein.-con., brick and stone court house, $250,000. Howard & Finley, International Life Bldg., St. Louis, archts. Noted Mar. 4.

Mo., Frederick—THEATRE—May 8, by J. J. Zink, archt., 2726 Overland Ave., Baltimore, 1 story and balcony, 61 x 280 ft., rein.-con. and brick, plain foundation, here, for Stanley-Crandall Co., 934 F St., Wash., D. C. $225,000.

Ia., Council Bluffs—HOSPITAL—May 5, by Mercy Hospital, 4 story and basement, 47 x 91 ft., and 32 x 41 ft., rein.-con., brick and stone addition. $150,000. J. W. Wheeler, 508 Exch. Bldg., St. Paul, Minn. Noted Nov. 26.

Tex., Amarillo—OFFICE—May 3, by W. C. Headrick, archts., 1005 1st Natl. Bank Bldg., Ft. Worth, 10 story and basement, 60 x 140 ft. brick, stone and rein.-con., 6th and Pake Sts., here, for M. D. O. Eakle. $500,000. Noted Apr. 15.

Calif., Berkeley—STORE and LODGE—J. W. Plachek, archt., Mercantile Bank Bldg., taking bids 3 story and basement, steel and rein.-con., Bancroft Way and Fulton St., for I. O. O. F. Hall Assn., c/o architect. $160,000.

Calif., Brawley—HOTEL—Noernberg & Johnson, archts., Railway Bldg., Los Angeles, taking bids 4 story, concrete and steel hotel, here, for Sears & Patterson, c/o architects. $150,000. Noted Apr. 8.

Calif., Long Beach — TEMPLE — Wright & Gentry, archts., Marine Bank Bldg., taking bids structural steel, for rein.-con. and steel temple, Locust Ave., for Masonic Temple Building Assn. To exceed $500,000.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles—LOFT—M. Marston, archt., Douglas Bldg., taking bids 5 story, 50 x 145 ft., rein.-con., East Washington St., for T. N. Fiece, c/o architect.

Calif., Los Angeles—SALES AND GARAGE—T. B. Keim, Jr., archt., Hass Bldg., taking bids 4 story, rein.-con., 12th and Figueroa Sts., for A. P. Mithcell, et al, 505 South Irving Blvd. Noted Mar. 25.

Calif., Tracy—HOTEL—P. V. Tuttle & H. C. Slocum, archts., 337 17th St., Oakland, taking bids 2 story, rein.-con. hotel, here, for Tracy Community Hotel Co. $150,000.

Calif., San Francisco — APARTMENT — See "Contracts Awarded."

Calif., San Quentin — CELL BLOCK HOUSE—See "Contracts Awarded."

Man., Winnipeg—HOSPITAL—Apr. 30, by F. R. Evans, superv. archt., 902 Confederation Life Bldg., 3 story, basement and sub-basement, 46 x 150 ft., and 46 x 205 ft., rein.-con., brick and stone, Sherbrooke and Wolseley Sts., for Sisters of Misericorde, Sherbrooke St. and Wolseley Ave. $180,000. Noted Mar. 25.

Bids Received

Ind., Indianapolis — OFFICE — Modern Woodmen of America, J. D. Volz, chn., 309 Bd. Trade Bldg., general contract 2 story and basement, 75 x 180 ft., brick and steel, from J. R. Curry Constr. Co., 202 Empire Life Bldg. Archts. est. $150,000.

Ind., Washington — THEATRE — M. Switlow & Sons, 651 South 4th St., Louisville, Ky., general contract 2 story and basement, 60 x 115 ft., brick and steel motion picture theatre, 4th and Main Sts., from J. Kretz Constr. Co., Washington. Archts. est. $150,000. Noted Apr. 8.

Buildings—Commercial (Continued)

Contracts Awarded

Mass., Boston — OFFICE — Boston Consolidated Gas Co., 149 Tremont St., Boston, 13 story and basement, 80 x 100 ft., brick and limestone, Arlington and Stuart Sts., to W. A. & H. A. Root, Park Sq. Bldg. Archts. est. to exceed $150,000. Noted Oct. 1.

Mass., Boston—THEATRE—I. Sonnabend, 213 Hanover St., 1 story and basement, 100x125 ft., brick, stone and steel, Hanover St., to M. and D. Constr. Co., 44 School St., Archts. est. $150,000. Noted Oct. 8.

Mass., Milton (br. Boston)—THEATRE—M. Greenspan, 333 Washington St., Boston, will build 2 story and basement, 75x180 ft., brick and steel, plain foundation, Adams St. and Granite Ave., here. Work will be done by separate contracts. $150,000. Blackall, Clapp & Whittemore, 31 West St., Boston, archts.

Mass., Boston—STORE, GARAGE and WAREHOUSE — Lesser & Devine, 29 Creston St., Roxbury, will build 1 story, 100,000 sq.ft. floor space, rein.-con., brick and steel, plain foundation, Elmwood St., Roxbury Crossing, here. Work will be done by separate contracts. $400,000. Miller & Levi, 46 Cornhill, Boston, archts.

Mass., Springfield — HOTEL — Hotel Bridgeway, 50 Bway., will build 4 story, 71 x 122 ft., brick and steel addition, Bway. Work will be done by separate contracts. $150,000. Huestis & Huestis, 145 Chestnut St., archts. Noted Mar. 25.

Mass., Wollaston (Ind. br. Boston)—THEATRE—Wollaston Palace Theatre Co., c/o M. Allen, Quincy, 3 story, 80x215 ft., brick and steel, to M. & D. Constr. Co., 44 School St., Boston, archts., here. $160,000. Noted Jan. 28.

Conn., Hartford—APARTMENT—Lapuck Bros., 89 Sharon St., will build 4 story, 100 x 115 ft., brick, steel and stone, Charter Oak Pl. $250,000. Work will be done by separate contracts. Berenson & Moses, 30 Allyn St., archts. Noted Feb. 18.

Conn., Hartford — APARTMENT — H. Resnick, 34 Vine St., will build 4 story, brick and steel, by day labor. $150,000. Private plans. Noted Feb. 25.

Conn., Meriden—BANK—Bankers Trust Co., 18 Asylum St., Hartford, 2 story, 70 x 94 ft., brick, Farmington Ave., to Industrial Constr. Co., 721 Main St., Hartford, $150,000.

N. Y., Brooklyn—WAREHOUSES—Bush Terminal Co., Broad St., New York City, two 8 story, rein.-con., brick and steel, plain foundations, 39th St. to Turner Constr. Co., 244 Madison Ave., New York City. Archts. est. $750,000 each.

N. Y., Massapequa—ADMINISTRATION, etc.—Deauville Estates, Inc., J. Frankel, vice-pres., 570 7th Ave., New York City, general contract administration building, Yacht club, hotel and several hundred houses, etc., here, to T. C. Desmond & Co., Inc., 247 Park Ave., New York City. Archts. est. $4,500,000.

N. Y., New York—APARTMENT—M. D. J. Realty Co., c/o J. P. Boyland, engr. and archt., 120 East Fordham Rd., will build brick, steel and stone, plain foundation, Grand Concourse and 204th St., by day labor. $175,000.

N. Y., New York — APARTMENT — Neiwan Realty Co., c/o J. M. Felson, engr. and archt., 250 West 57th St., will build 5 story, brick, steel and stone, plain foundation, Williamsbridge Rd., by day labor. $225,000.

N. Y., New York — OFFICE — Lower Bway. Properties, 36 West 44th St., 35 story, brick, steel and stone, Bway. and New St., to C. L. Fraser, 50 East 42nd St. Archts. est. $2,500,000.

N. Y., New York—OFFICE and STORE—Burroughs-Welcome Co., M. Welcome, pres., 9 East 41st St., 6 story, brick, steel and stone, plain foundation, East 41st St., to Fountain & Choate, 110 East 23rd St. Archts. est. $200,000.

Pa., Allentown — GARAGE — Central Motoramp Garage Co., 4 story and basement, 83 x 140 ft., rein.-con. and brick, plain foundation, 28-34 North 5th St., to Hughes Foulkrod Co., Commonwealth Trust Bldg., Phila. Archts. est. $175,000. Noted Apr. 8.

Pa., Bryn Mawr — HALL — Bryn Mawr College, 1 and 2 story and basement, 20 x 51 ft., and 65 x 107 ft., rein.-con., brick and stone, Goodhart Hall, plain foundation, to R. C. Ballinger Co., 925 Walnut St. Archts. est. $400,000.

Pa., Oakmont — APARTMENT and STORE — S. Schifter, Ardmore, will build 3 story and basement, 95 x 190 ft., brick and steel, plain foundation, Merwood Park. $300,000. Work to be done by separate contracts. S. Kaplan, 10 South 18th St., archt.

Pa., Upper Darby (br. Phila.) — HOSPITAL — Delaware Co. Hospital Building Comn., Ashby and Copley Rds., Stonehurst, general contract, 3 story and basement, 48 x 110 ft., rein.-con. and brick, plain foundation, Lansdowne Ave. and Garrett Rd., to David Lutz & Co., 231 Chestnut St., $115,850; and electrical work, to W. V. Pangborne, 1927 West Montgomery St., $63,502. Noted Apr. 1.

Ala., Mobile — WAREHOUSE—Alabama State Docks Comn., State Office Bldg., steel contract 200 x 400 ft. warehouse, to Decatur Cornice & Roofing Co., Albany, $106,298; foundation, floors and walls, to W. H. Williams Co., 816 Howard Ave., New Orleans, La., $253,000. Noted Apr. 15.

O., Canton — GARAGE and STORE — R. E. Hay Motor Car Co., 134 McKinley Ave., 1 story and basement, 114 x 149 ft., brick, Hazlette Tuscarawas St. W., to E. H. Walker, Zinninger Bldg., $150,000.

O., Cleveland—COMMERCIAL—Brooklyn Masonic Temple Bldg. Co., G. Orr, mgr. Rose Bldg., chn. building com., 3 story and basement, 81x221 ft., brick, West 25th St., to J. Grant & Son, 4500 Euclid Ave. Archts. est. $200,000.

Mich., Detroit — CLUBHOUSE — Detroit Boat Club, 714 Union Trust Bldg., 2 story, rein.-con. and brick addition plain foundation, incl. swimming pool, Belle Isle, to J. W. Butler Constr. Co., 919 Free Press Bldg. Archts. est. $150,000.

Ill., Chicago—APARTMENT—Rissman & Hirschfield, archts., 64 West Randolph St., general contract 16 story, 107 x 174 ft., 402-18 Aldine Ave. and Sheridan Rd., to McLennan Constr. Co., 307 North Michigan Ave., for Edith Rockefeller McCormick, c/o Krenn & Dato, 936 North Michigan Ave. Archts. est. $950,000. Noted Apr. 1.

Ill., Chicago—HOSPITALS—H. A. Zender, supt. Pub. Serv. Cook Co., County Bldg., general contract additions to hospitals, to Great Lakes Constr. Co., 306 South Wabash Ave., $1,917,800, steam fitting, to Kinzie Eng. Co., 216 West Kinzie St., $161,370, electrical work, to U. S. Electric Co., 303 West Van Buren St., $76,600. Grand total $2,155,770. Noted Mar. 11.

Ill., Chicago — STORE — Carson, Pirie Scott & Co., Adams and Franklin Sts., altering and constructing 8 story, 40 x 140 ft. addition, 102-138 South Market St., to J. P. and J. W. O'Conner Co., 15 North La Salle St. $1,000,000.

Ill., Joliet — THEATRE, STORE and APARTMENT—J. J. Redding & Co. (owner and general contractor), 10 North Clark St., Chicago, will build Rialto Square Theatre, here. $750,000.

Nev., Reno—OFFICE and STORE—H. H. Sheeline, 5 story, rein.-con. office and store building, to Hilton & Leatherman, Reno, $150,000.

Calif., Los Angeles—APARTMENT—E. Cerciat, 752 North Lafayette Park Pl., will build 4 story, 75 x 125 ft., brick, San Marino St., by day labor. $150,000.

Calif., Los Angeles — STORE and OFFICE — Sun Realty Investment Co., 742 South Hill St., 12 story, 137 x 250 ft., steel and rein.-con., 7th and Flower Sts., to J. V. McNeil Co., 5860 South Park Ave., $4,000,000.

Calif., San Francisco — APARTMENT — E. V. Lacey, Hearst Bldg., will build 12 story and basement, rein.-con., O'Farrell St., near Leavenworth St., by day labor. $175,000. H. W. Bott, 708 Hearst Bldg., archt.

Calif., San Quentin — CELL BLOCK HOUSE — State Building Comn., Sacramento, will build cell block house, 5 tier high, rein.-con., each containing 90 cells, here, by day labor. $175,000. G. B. McDougall, Forum Bldg., Sacramento, state archt. Noted July 2.

Ont., Toronto—WAREHOUSE—Canadian Rail & Harbor Terminals, Ltd., 8 story, main storage warehouse 210 x 420 ft., cold storage warehouse 120 x 220 ft., rein.-con., resting on 10,000 piles driven 30 ft. to rock, also containing more than 1,000 ft. railroad track, and powerhouse, to Parklaps, Inc., 84 Pine St., New York City, and 512 Harbour Commissioners Bldg., about $5,000,000.

Alta., Banff Springs—HOTEL—Canadian Pacific Ry., 230 St. James St., Montreal, Que., general contract 4 story, rein.-con., to Carter Halls Aldinger Co. Ltd., Union Bank Bldg., Winnipeg, Man. Archts. est. $2,000,000.

Buildings—Industrial

Proposed Work

Me., Brunswick—CANNING FACTORY—A. B. Holmes, secy. Chamber of Commerce, plans canning factory. $40,000 or more. Engineer and architect not selected.

Mass., East Springfield — FACTORY — Westinghouse Electric Co., Page Blvd., plans 4 story, 40,000 ft. floor space, brick, steel and rein.-con. factory addition, new building for machinery and storing castings, remodeling dry kiln building, punch press shop and present office building, also 3 story, 54 x 300 ft., brick, steel and concrete administration building. $350,000-$400,000. A. B. Reynders, mgr.

Mass., Somerville (Boston P. O.) — REPAIR and GARAGE SHOP — Boston Elevated Ry. Co., Park Sq. Bldg., Boston, had plans prepared by A. J. Blackburn, Park Sq. Bldg., Boston, 2 story, 45 x 145 ft., rein.-con. brick and steel, plain foundation, here. $85,000.

Mass., Winchester—PLANT—Bay State Saw & Tool Co., Lake and Main Sts., plans rebuilding plant recently damaged by fire. $50,000. Engineer and architect not selected.

Conn., New Haven — FACTORY — J. I. Suisman, 1026 Main St., Hartford, having plans prepared by Storrs & Feinberg, 1127 Main St., Hartford, rein.-con., 51 Chapel St., here. Graybar Electric Co., (subsidiary of Westinghouse Electric & Mfg. Co., 150 Bway., New York City), lessee.

Conn., Stamford—PAINT PLANT—Baer Bros., 700-68 Canal St., had plans prepared by A. Freeman, 29 West 43rd St., New York City, 2 story, 125 x 132 ft., brick and steel addition. $75,000.

N. Y., Buffalo—FLOUR MILL—Hecker-Jones Jewell Milling Co., 503 Seneca St., plans flour mill Louisiana St. $500,000. A. E. Baxter Eng. Co., Ellicott Sq. Bldg., engrs.

N. Y., Buffalo — FEED and FLOUR MILL — Washburn Crosby Milling Co., Chamber of Commerce Bldg., Minneapolis, Minn., plans mill, Ganson St., here. $300,000.

N. Y., Long Island City — PLANT — J. Heinrichs Corp., 948 Bway., New York City, soon takes bids 3 story, rein.-con., brick and steel, plain foundation, here. $75,000. C. D. Howell, 11 East 45th St., New York City, engr. and archt.

N. Y., Matteawan (mail Glenham) — POWER HOUSE—State appropriated $750,000, purchasing site and constructing power house at Matteawan State Hospital for Criminal Insane, here.

N. Y., New York — REFRIGERATING PLANT—Brooklyn Bridge Freezing & Cold Storage Co., 24 Vanderwater St., plans rein.-con., brick and steel addition, plain foundation, Vanderwater St. $150,000. Engineer and architect not selected.

N. Y., Ray Brook—POWER PLANT—State plans to sell $200,000 bonds, power house, at New York State Hospital for Treatment of Incipient Pulmonary Tuberculosis, here.

N. Y., Rochester—FABRICATING SHOP—Holderle Bros., 339 Exchange St., having plans prepared by W. Lee, 134 Fulton Ave., 1 story, 47 x 95 ft., rein.-con., plain foundation, Exchange St. $40,000.

N. J., Jersey City—MACHINE SHOP—P. Kozans having plans prepared by G. A. Flagg, engr. and archt., 665 Newark Ave., 1 story, brick, steel and stone, plain foundation, 157 St. Pauls Ave. $50,000.

N. J., Newark—SERVICE and REPAIR GARAGE—Owner, c/o J. H. and W. C. Ely, engr. and archt., 784 Broad St., having plans prepared rein.-con., brick and steel, plain foundation, Central Ave. $85,000.

N. J., Pinewald (mail Bayville)—SOAP FACTORY—I. Rokeach & Sons, 345 Hewes St., Brooklyn, N. Y., soon take bids rein.-con., brick and steel, plain foundation, here. $150,000. H. J. Nurick, 44 Court St., Brooklyn, engr. and archt.

Pa., Meadville — MANUFACTURING — Hookless Fastener Co. having plans prepared by Wilbur, Watson & associates, 4614 Progress St., Cleveland, O., 3 story, 60 x 100 ft., brick and concrete addition. $150,000.

Md., St. Helena (Baltimore P. O.) — WIRE WELDING FACTORY—Reid Avery Co., 21st and Washington Sts., Phila., Pa., plans wire welding factory, Chesapeake and Cleveland Aves., here. $100,000.

La., Monroe — PAPER MILL — Brown Paper Mill Co., having preliminary plans prepared plant addition. $2,000,000. G. F. Hardy, 309 Bway., New York City, N. Y., engr.

Mich., Detroit—FACTORY—E. G. Budd Mfg. Co., 12141 Charlevoix Ave., had plans prepared by A. Kahn, 1000 Marquette Bldg., 1 story, 132 x 550 ft., rein.-con., brick and steel, plain foundation, along Detroit Terminal Ry. track and Charlevoix Ave.

Mich., Detroit—ENAMELING PLANT—C. Kotting, archt., 2306 Dime Bank Bldg., takes bids about May 3, 2 story, 85 x 100 ft., rein.-con., brick and steel, plain foundation, Jefferson Ave., for Detroit Stove Wks., East Jefferson Ave.

Buildings—Industrial (Continued)

Mich., Detroit—FACTORY—T. F. Leeson, 80 Cottage Grove Ave., Highland Park, plans 1 story and part basement, 100 x 200 ft., rein.-con., brick and steel, plain foundation, Meyers Rd. $50,000. Private plans.

Mich., Saginaw — FACTORY — Lufkin Rule Co., having plans prepared by Smith, Hinchman & Grylls, 800 Marquette Bldg., Detroit, 2 story and part basement, rein.-con., brick and steel, plain foundation.

Ill., De Kalb — FACTORY — Creamery Package Mfg. Co., 67 West Kenzie St., Chicago, having preliminary plans prepared 1 story, rein.-con. and brick factory addition, here. $100,000. Private plans.

Ill., East St. Louis — OIL STORAGE WAREHOUSE — Roxana Petroleum Corp., Shell Bldg., 13th St. and Locust Blvd., St. Louis, Mo., having preliminary plans prepared 1 story, oil storage warehouse, rein.-con. and steel. $50,000. Private plans.

Ill., Rockford — FACTORY and WAREHOUSE — J. W. Miller Incubator Co., 2500 Latham St., plans 2 story and basement, 150 x 250 ft., rein.-con., brick and steel, Latham St. Engineer and architect not selected.

Wis., Bloomer—PLANT—See "Contracts Awarded."

Wis., Gays Mills—PLANT—See "Contracts Awarded."

Wis., Madison — SERVICE STATION — International Harvester Co., 606 South Michigan Blvd., Chicago, Ill., had plans prepared by W. D. Price, c/o owner, 1 story, 120 x 130 ft., rein.-con., brick and steel, plain foundation. $70,000.

Wis., Muscoda—PLANT—See "Contracts Awarded."

Wis., Sheboygan—FACTORY—Northfield Co., 15th St. and Martin Ave., having plans prepared by E. A. Juul, Security Natl. Bank Bldg., 4 story and basement, 42 x 108 ft., brick and timber addition, plain foundation, $60,000.

Wis., Soldiers Grove—PLANT—Interstate Power Co., H. O. Ortin, mgr., Dubuque, Ia., plans rein.-con. and steel, plain foundation. Engineer and architect not selected. $75,000.

Minn., Litchfield—CREAMERY—Minnesota Co-operative Creameries, Inc., 2201 Kennedy St., Minneapolis, plans 2 story and basement, rein.-con. and brick creamery. $65,000. Engineer and architect not selected.

Mo., Kansas City — BAKERY — Golden Rule Bakery Co., 4319 Independence Ave., plans 3 story and basement, rein.-con. bakery. $300,000. Engineer and architect not selected.

Mo., Versailles — SHOE FACTORY — Tweedle Shoe Co., Jefferson City, soon lets contract 1 story and basement, 50 x 234 ft., brick and concrete shoe factory, here. $60,000. L. Abt, Moberly, archt. Noted Mar. 25.

Tex., Houston — FOUNDRY — Oklahoma Steel Castings Co., c/o E. H. Cornelious, pres., Tulsa., Okla., purchased site and plans 1 story, 30,000 sq. ft. floor space, steel foundry. $50,000. Private plans.

Tex., Olmito (mail Brownsville)—LIGHT PLANT—See "Unclassified."

Tex., San Antonio—MATTRESS FACTORY—A. Grona Mattress Factory, 1032 East Commerce St., purchased 3 acre site and plans brick, stone and rein.-con., mattress factory, Garden St., (1st unit) will house machinery of old factory, and (2nd unit) for new machinery. $60,000. Private plans.

Tex., San Marcos — GARAGE — E. S. Sutton, having plans prepared by D. Donaldson, San Marcos, brick, tile and rein.-con. garage. $50,000.

Tex., Texarkana — TEXTILE MILL — M. E. Melton, having preliminary plans prepared fireproof textile mill. $1,000,000. Private plans.

Tex., Texarkana — FURNITURE FACTORY — M. E. Melton, having preliminary plans prepared rein.-con. and brick, plain foundation. $150,000. Private plans.

Tex., Texarkana — ICE and COLD STORAGE PLANT — J. N. Myers, c/o Hotel Grim, purchased site 25 ton ice plant and 100 ton cold storage plant, both rein.-con., brick and steel. $75,000. Private plans.

Tex., Texarkana—BRICK PLANT—G. P. Winham, c/o Standard Lumber Co., plans brick plant. $40,000. Private plans.

Okla., Farris—COTTON GIN—C. Goodiron plans 5 saw 60 stand capacity cotton gin, probably electrically driven. $40,000. Private plans.

Okla., Prentiss (mail Mayfield) — COTTON GIN — S. H. Yoakum plans 8 stand 80 saw capacity cotton gin, probably electrically driven. $40,000. Private plans.

Okla., Moravia (mail Ocina)—COTTON GIN—M. H. Pace plans cotton gin, probably 6 stand 80 saw capacity. $35,000. Private plans.

Calif., Los Angeles — AUTO REPAIR SHOPS — J. Kreutzer, c/o E. M. Frasier, archt., Insurance Exch. Bldg., had plans prepared 3 story, rein.-con., South Hope St. $60,000.

Calif., Puente—DAIRY PLANT—A. V. Hendorf had plans prepared by J. E. Kunst, Cotton Exch. Bldg., Los Angeles, dairy plant buildings, brick and concrete. To exceed $150,000.

Calif., Santa Monica — FACTORY — Douglas Co., 2435 Wilshire Blvd., plans factory for manufacture of airplanes, Clover Field. To exceed $40,000.

Ont., Clinton — PLANT — Huron Milk Products Ltd., W. Miles, mgr., plans new milk powder plant. $100,000 incl. equipment.

Ont., Goderich—PLANT—J. E. Baechler, plans new woodworking specialty plant. $100,000 incl. equipment.

Bids Desired

Mass., Cambridge (Boston P. O.) — BOILER HOUSE — Natl. Casket Co., 122 1st St., taking bids 1 story, brick addition. $40,000. R. D. Kimball Co., 6 Beacon St., Boston, engrs. and archts.

Mass., Mattapan (sta. Boston)—REPAIR and SERVICE GARAGE—See "Contracts Awarded."

Pa., Phila.—SUB-STATION—May 4, by Phila. Electric Co., 10th and Chestnut Sts., 1 story, balcony and basement, 50x99 ft., rein.-con. and brick, plain foundation, 52-54 North 6th St. J. T. Windrim, Commonwealth Bldg., archt.

Pa., Phila. — FACTORY — Apr. 30, by Shetler & Dysher, archts., Jefferson Bldg., 1 and 2 story, 60 x 275 ft., rein.-con., brick and steel factory and boiler room, plain foundation, 57th and Lancaster Sts., for J. N. Driver, Inc., 1644 North 55th St.

Pa., Phila. — FACTORY — May 3, by Stearns & Woodnut, archts., St. Girard Bldg., 4 story and basement, 50 x 131 ft., rein.-con. and brick, plain foundation, Worth and Kinsey Sts., for Glove Dye Wks. D. R. Greenwood, pres.

Pa., Pittsburgh — FREIGHT WAREHOUSE — Pennsylvania R.R. Co., A. C. Shand, ch. engr., Broad St. Sta., Phila., taking bids 1 and 2 story, 40 x 265 ft., brick and steel, 11th and Pike Sts., here. $150,000.

Pa., Sharon—BOILER HOUSE, etc.—See "Contracts Awarded."

Wis., Madison — SERVICE STATION — May 6, by International Harvester Co., 606 South Michigan Blvd., Chicago, Ill., 1 story, 120 x 130 ft., brick and concrete, plain foundation. $70,000. W. D. Price, c/o owner, archt.

Wis., Milwaukee—BAKERY—Apr. 27, by W. E. Long Co., engrs. and archts., 155 North Clark St., Chicago, Ill., 3 story and basement, 128 x 152 ft., rein.-con. and brick, plain foundation, Clybourn St., here, for Natl. Biscuit Co., 85 9th Ave., New York City, N. Y. $100,000.

Wis., Racine—FOUNDRY—C. S. Anderson, mgr. Belle City Malleable Iron Co., Kewaunee St., taking bids (2nd unit) 1 story, 116x202 ft., brick and steel, plain foundation. A. A. Wickland Co., 5 South Wabash St., Chicago, Ill., engrs.

Neb., Hastings — MANUFACTURING — F. A. Roth Mfg. Co., 1600 South Kilbourn St., taking bids 2 story, 100 x 200 ft., brick and terra cotta factory. $100,000. K. H. Gedney, Hastings, archt. Noted Mar. 4.

Mo., St. Louis—SUB-STATIONS—May 4, by Bd. Pub. Serv., 208 City Hall Substations B, C and D, 1 story, rein.-con. and brick $46,000. W. W. Horner, 300 City Hall, engr.

Ark., Malvern—PLANING MILL— See "Contracts Awarded."

Tex., Ft. Worth — PRINTING PLANT, etc.—Bunker Printing & Book Co., c/o A. Goodhart, Worth Bldg., taking bids 1 and 2 story, brick, stone, rein.-con. and steel printing plant and office building. $175,000. Austin Co., 16112 Euclid Ave., Cleveland, O., engrs.

Calif., Ryde — SUB-STATION — See "Contracts Awarded."

Contracts Awarded

Mass., Everett (Boston P. O.)—PLANT —Mystic Iron Wks., 1 Federal St., Boston, 3 story, brick addition, here, to D. E. McIntire, Inc., 74 Broad St., Boston. Archts. est. $40,000.

Mass., Jamaica Plain (Boston P. O.) — FACTORY — Clifton Mfg. Co., Brookside Ave., 1 story, brick, Brookside Ave., to W. T. Reed Co., 201 Devonshire St., Boston. Archts. est. $50,000.

Mass., Mattapan (sta. Boston)—REPAIR and SERVICE GARAGE—H. B. Barrown, 32 Abbott St., Dorchester, will build 2 story, rein.-con. and steel, plain foundation, Wellington Hill and Greendale Sts. Work will be done by separate contracts. $50,000. S. S. Levy, 35 Court St., Boston, archt.

Conn., Bridgeport — FACTORY — Brock Co., 38 Austin St., 1 and 2 story, 100 x [illegible] ft., and 2 story wing brick and [illegible] Austin and Warren Sts., to Hewlett [illegible] 884 Main St. Archts. est. $65,000. N[illegible] Apr. 1.

N. J., Camden—FACTORY—MacAndrews & Forbes Co., 3rd and Jefferson Sts., 3 story and basement, 56 x 360 ft. factory, 3rd [illegible] Jefferson Sts., to Barclay-White Co., [illegible] Sansom St., Phila., Pa. Archts. est. $[illegible] 000.

N. J., Plainfield—ICE PLANT—Plainfield Ice & Supply Co., 222 Madison Ave., general contract 1 story, rein.-con., brick and steel, plain foundation, to Wigton-Abbott Corp., 552 West 23rd St., New York City. Archts. est. $75,000.

N. J., Pleasantville—KNITTING MILL—Starr Knitting Mill Co., 2 story 50 x [illegible] ft. mill, to W. H. Joslin, Pleasantville. $75,000.

Pa., Pittsburgh—WAREHOUSE—Pennsylvania R.R. Co., A. C. Shand, ch. engr., Broad St. Station, Phila., general contract remodeling warehouse, here, to T. J. Foley Co., Fulton Bldg. Engrs. est. $150,000.

Pa., Pittsburgh—MANUFACTURING—Steel City Electric Co., 1207 Columbus Ave., general contract 2 story and basement, 30 x 60 ft., brick and concrete, Columbus Ave., to W. F. Trimble & Sons Co., 1719 Penna. Ave. Archts. est. $40,000.

Pa., Sharon — BOILER HOUSE, etc.—Sharon Steel Co. will build gas and boiler house, also electrify 8 and 10 mills, and remodel unit 14, by day labor. Private plans. G. S. Warren, c/o owner, engr.

Tenn., Nashville—PRINTING PLANT—Branden-Craig-Dickerson Printing Co., 309 5th Ave. N., general contract 2 story, 100 x 175 ft., concrete brick and steel, 10th Ave., to E. G. Holladay Constr. Co., 151 4th Ave. N., $80,000.

O., Troy — FACTORY — Troy Sunshade Co., 2 story, 56 x 121 ft., and 3 story, 48 x 65 ft., rein.-con. and brick addition, Walnut St., to H. R. Blagg Co., 1229 East 3rd St., Dayton, $65,000.

Ill., Chicago—DAIRY—S. Wanzer & Sons, 21 East 30th St., general contract 2 story and basement, 225 x 292 ft. dairy plant, to W. Mayor Co., 7 South Dearborn St. Archts. est. $400,000.

Wis., Bloomer—PLANT—Bloomer Dairy Products Co., W. R. Freund, mgr., will build 1 story, 60 x 90 ft., rein.-con., brick and steel, plain foundation, by day labor. $40,000. Kampfer & Buetow, 1380 Blair St., St. Paul, archts.

Wis., Gays Mills—PLANT—Interstate Power Co., c/o H. C. Ortin, mgr., Dubuque, Ia., will build 1 story, 75 x 90 ft., rein.-con., brick and steel, plain foundation, by day labor. $60,000. Private plans. Noted Apr. 8.

Wis., Milwaukee—SAUSAGE FACTORY —C. T. Gross, 3020 State St., 2 story and basement, 90 x 100 x 112 ft., brick and concrete, Poplar St., to W. W. Oeffein, 86 Michigan Ave. Archts. est. $65,000. Noted Mar. 25.

Wis., Milwaukee — FACTORY — Stolper Steel Products Co. (formerly A. B. and B. Sheet Metal Wks.), 3300 Fond du Lac Ave., 2 story, 36 x 130 ft., brick addition, plain foundation, to H. Danischefsky, 1484 Humboldt Ave. Noted Mar. 25.

Wis., Muscoda — PLANT — Muscoda Cheese & Creamery Co. will build 2 story, 60 x 70 ft., rein.-con., brick and steel warehouse and cold storage plant, plain foundation, by day labor. $40,000. Private plans.

Wis., Waukesha — FOUNDRY — Quality Aluminum Casting Co., Lincoln Ave., general contract 1 story, 40 x 120 ft. addition, to P. F. Gierke, 816 Lincoln Ave.; steel, to Lakeside Bridge & Steel Co., North Milwaukee. Archts. est. $40,000.

Minn., St. Paul — POWER PLANT — Brown & Biglow, Quality Park, general contract 1 story and basement, 48 x 74 ft., and 54 x 74 ft., rein.-con. and brick, Midway Dist. of Quality Park, to W. Murphy & Son, 346 Endicott Bldg. Archts. total est. approximately $300,000.

Mo., Flat River—POWER PLANT—St. Louis Smelting & Refining Wks., 44 x 90 ft., rein.-con. and brick power plant, 59 ft. high, with 250 ft. rein.-con. stack, etc., to J. V. Boland Constr. Co., Chemical Bldg., St. Louis. Archts. est. $185,000.

Mo., St. Louis — WHEEL FACTORY — Southern Wheel Co., Commonwealth Bldg., Pittsburgh, Pa., 1 story, 230 x 420 ft., rein.-con., Goodfellow St. and Terminal Belt R.R. tracks, here, to Cornet-Casey Constr. Co., Chemical Bldg. Archts. est. $250,000.

Ark., Malvern—PLANING MILL— Wisconsin & Arkansas Lumber Co., A. B. Cook, genl. mgr., will build 1 story, 120x166 ft., with 20x40 ft. and 30x80 ft. additions, concrete foundations, by day labor. $100,000.

Tex., Houston—DAIRY—Phenox Dairy Co., c/o M. C. Oldham, mgr., 1502 Heiner St., general contract 2 story, 106 x 120 ft.,

Buildings—Industrial (Continued)

brick and tile, Pake and Smith Sts., to J. B. Townsend, 542 West Bldg., $163,395.

Okla., Chickasha — ICE PLANT — O. L. Bingham, 1 story ice plant addition, to brick and stone, to A. J. Puckett, Chickasha. Archts. est. $45,000.

Wash., Port Angeles—PAPER PLANT—Washington Pulp & Paper Corp., (2nd unit) pulp and paper plant, to C. Kuppler & Son, Port Angeles, about $1,000,000.

Calif., Berkeley — FACTORY — Pacific Paint & Varnish Co., Wells Fargo Bldg., San Francisco, 2 story, paint factory, rein.-con., to Gutleben Bros., 614 Mills Bldg., San Francisco, $45,000.

Calif., Pittsburg — POWER PLANT — Pioneer Rubber Mills, brick power plant, to A. Johnson, Call Bldg., San Francisco, $41,200.

Calif., Ryde — SUB-STATION — Great Western Power Co., 530 Bush St., San Francisco, will build rein.-con. sub-station, here, by day labor. $200,000.

Buildings—Educational, Religious

Proposed Work

Me., Augusta—SCHOOL—Bd. Educ., having sketches made by Bunker-Savage, 256 Water St., 2 story and basement addition, Coney and Stone Sts., $175,000 appropriated.

Mass., Boston—ADMINISTRATION—Congregation of Adath Isreal Temple, H. Levi, rabbi, having preliminary sketches made by McLaughlin & Burr, 88 Tremont St., 3 story and basement, brick and limestone, Riverway and Longwood Aves., Plymouth and Brenner Sts. $150,000 or more.

Mass., Everett (Boston P. O.)—HIGH SCHOOL—City, L. D. Chisholm, mayor, plans 2 story and basement, brick and stone, Summer St. $150,000. Engineer and architect not selected.

Mass., Framingham — CHURCH—Grace Congregational Church, T. Lathrop, Pastor, c/o R. H. Wamboldt, archt., 6 Beacon St., Boston, having preliminary sketches made 1 story and basement, brick and stone, Union Ave. $150,000. Noted Mar. 4.

Mass., Granby — SCHOOL — Franciscan Fathers, soon let contract 3 story and basement, 55 x 205 ft., brick, limestone and granite school. $225,000. T. F. Dunn, 37 West 57th St., New York City, engr. and archt.

Mass., Hingham — HIGH SCHOOL — Town, T. B. Hingham, chn., having plans prepared by Derby & Robinson, 3 Joy St., Boston, brick and steel high school, Central St. $230,000. Noted Apr. 22.

Mass., Whitman — HIGH SCHOOL — Town, Bd. Selectmen, Town Hall voted to borrow $300,000. new high school.

N. Y., Albany—COLLEGE—State appropriated $850,000, constructing buildings at State College for Teachers.

N. Y., Bayport—SCHOOL—Bd. Educ. takes bids about May 3, brick, steel and stone, plain foundation, $250,000. W. Potter, 22 East 17th St., New York City, engr. and archt., Noted Apr. 15.

N. Y., New York — CHURCH and RECTORY — Church of Heavenly Rest, 3 East 45th St., having plans prepared by Bertram G. Goodhue, engr. and archt., 2 West 47th St., brick, steel and stone, plain foundation, 5th Ave. and 90th St. $2,000,000.

N. J., Franklin—HIGH SCHOOL—Mayor and City Council plan 12 room addition to high school. $150,000. Gilbert & Betelle, Commerce Bldg., Newark, archts.

N. J., Ridgefield—HIGH SCHOOL—Bd. Educ. having plans prepared by E. Sibley, engr. and archt., Bluff Rd., Palisade, brick, steel and stone addition, plain foundation, Bergen Ave. $300,000.

Pa., Greensburg — CHURCH — Zion Lutheran Church 2nd and Vanmas Ave., having plans prepared by J. C. Fulton & Son, Uniontown, 1 and 2 story, irregular shaped church, here. $225,000.

Pa., Williamsport—SCHOOL—St. Boniface Catholic Church, having plans prepared 3 story and basement, 52 x 150 ft., addition to St. Marys Academy, Washington St. $150,000. Engineer and architect not announced.

Pa., Windber — CHURCH — St. Marks Greek Catholic Church, S. Polansky, pastor, takes bids about May 20, 2 story and basement, 54 x 102 ft., brick, Somerset Ave. $150,000. W. R. Myton, 1204 1st Natl. Bank Bldg., Johnstown, archt.

Miss., Natchez — HIGH SCHOOL — City plans new high school. $200,000. A. Whittington, mayor.

O., Cleveland — MUSEUM — Cleveland Museum of Art, F. A. Whiting, dir., East Blvd. and Wade Park, plans art museum for children, incl. outdoor stage, amphitheatre, etc., Wade Park. $500,000. Engineer and architect not selected.

O., Cleveland—SCHOOL—Bd. Educ., F. G. Hogen, dir., plans altering brick school, East 71st St. and Hough Ave. G. M. Hopkinson, Auditorium Garage Bldg., archt.

Mich., Iron River — HIGH SCHOOL — Voted $300,000 bonds, 3 story and basement, rein.-con. and brick plain foundation, for Bd. Educ. Van Leyen, Schilling & Keough, 3440 Cass Ave., Detroit, archts.

Ill., Urbana—CHURCH—First Methodist Episcopal Congregation, c/o G. Losh, Pastor, having preliminary plans prepared by R. Maxwell, 611 West Illinois St., 2 story and basement, concrete, brick and stone, Race and Green Sts. $175,000.

Ia., Iowa City—FIELD HOUSE—State University of Iowa having revised plans prepared brick, steel and stone field house. Former bids rejected. $400,000. Proudfoot, Rawson & Sours, 810 Hubbell Bldg., Des Moines, archts. Noted Apr. 2.

Ark., Little Rock — Y. M. C. A., J. B. Withee, secy., 5th and Scott Sts., having preliminary plans prepared rein.-con., brick and stone, 6th St. and Bway. $500,000. Engineer and architect not selected.

Mo., St. Louis—SCHOOLS—Bd. Educ. making plans constructing 18 room school to replace Scullin portable school $150,000, Kennard School $200,000, and Canterbury School $260,000; reconstructing Central High School $150,000, 18 room and kindergarten school on Shaw Tract $350,000, and West Belle portable $350,000; additions to Mullanphy School $300,000, 1,300 pupil school at St. Louis St. and Kingshighway $1,000,000, auditorium and shops to Blow School $300,000, 12 room addition to Buder School $180,000, Scruggs School $200,000, 6 room addition to Roe School $100,000, 12 room unit of 24 room school district bounded by Clara, Natural Bridge, Union and North Market Sts. $200,000, Lindenwood Dist. $200,000, and 8 room addition and auditorium Harris Teachers College $140,000. R. M. Milligan, 911 Locust St., comr. buildings.

Mo., St. Louis — SCHOOL — Preparatory Diocesan Seminary, 4244 Washington Blvd., making preliminary plans rein.-con., brick and stone preparatory school. $1,000,000.

Tex., Eastland — HIGH SCHOOL — Bd. Educ., J. H. Caton, pres., having plans prepared by D. S. Castle Co., 701-4 Alexander Bldg., Abilene, 2 story and basement, 80 x 120 ft. rein.-con., brick and stone, plain foundation. $150,000 bonds voted.

Tex., Mercedes—HIGH SCHOOL—Election soon $150,000 bonds, 2 story, rein.-con. and brick, plain foundation, high school, for Bd. Educ. Engineer and architect selected soon.

Tex., Texarkana—HIGH SCHOOL—Election soon $150,000 bonds, 2 or 3 story, rein.-con., brick and stone high school. Witt, Seibert & Halsey, 807 Texarkana Natl. Bank Bldg., archts.

Ore., Portland—SYNAGOGUE—H. Brookman, archt., Henry Bldg., soon lets contract 90 x 150 ft., rein.-con. and steel, plain foundation, 19th, Flanders and Gilson Sts. $300,000. Owner's name withheld.

Calif., Santa Cruz — SCHOOLS — Santa Cruz School Dist. plans election $350,000 bonds, replacing 3 old school buildings.

Man., Winnipeg—CHURCH—All Saints Congregation, R. G. Baird, chn. building com., 200 Wentworth St., take bids about May 1, rein.-con., brick and stone, Bway. and Colony Sts. $160,000. G. Northwood, 615 Union Bank Bldg., archt.

Bids Desired

Mass., Boston—SCHOOL—Cathedral of Holy Cross, W. B. Finigan, pastor, taking bids 3 story and basement, 120 x 150 ft., brick and stone, Malden St. $200,000. E. T. P. Graham, 171 Newbury St., archt.

Mass., Milton (br. Boston) — CHURCH and SUNDAY SCHOOL — Parkway Methodist Episcopal Church, T. Hancock, pastor, Blue Hill Parkway, taking bids 1 story and basement, 40 x 85 ft. and 35 x 60 ft., rein.-con. and stone, plain foundation. $150,000. Wodbury & Stuart, 581 Boylston St., Boston, archts.

Mass., Roxbury (Boston P. O.) — TEMPLE and CHAPEL — Rabbinical College, Inc., J. M. Jacobson, rabbi, 35 Intervale St., taking bids 2 story and basement, 95 x 120 ft., brick, terra cotta and steel, Warren and Brunswick Sts. $150,000. J. A. Tuck, Park Sq. Bldg., archts. Clifford & Rosenblatt, 101 Tremont St., Boston, engrs.

Mass., West Newton (Ind. br. Boston)—HIGH SCHOOL—May 12, by City of Newton, Dept. Pub. Buildings, City Hall, West Newton, Junior High School, 2 story and basement, rein.-con., brick and stone, plain foundation, Washington St., here. $500,000. Ripley & Le Boutillier, 45 Bromfield St., Boston, archts.

Mass., Worcester—SCHOOL—City, Dept. Pub. Buildings, City Hall, taking bids 2 story and basement, brick and stone, Granite St. $226,000. E. P. Fitzgerald, 340 Main St., archt. Noted Feb. 4.

Conn., Bridgeport—SCHOOL—May 1, by Bd. Educ., 2 story and basement, brick and steel addition, Boston Ave. and Huntington Rd. $175,000. E. G. Southey, 983 Broad St., archt. Noted Feb. 11.

N. Y., Brooklyn—SCHOOLS—May 6, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., constructing P. S. 263, Avenue M from East 51st to East 52nd Sts.; and P. S. 208, Avenue D from East 48th to East 49th Sts., for Bd. Educ., 500 Park Ave., New York City.

N. Y., Montrose—HIGH SCHOOL—May 3 by Bd. Educ., brick, steel and stone, plain foundation. $325,000. Knappe & Morris, 171 Madison Ave., New York City, engrs. and archts. Noted Apr. 8.

Md., Baltimore—SCHOOL—May 12, by Mayor and City Council, City Hall, 2 story and basement, irregular shaped, brick and steel, plain foundation, Patterson Pk. and McElderry St. Van Rensselaer Saxe, Knickerbocker Bldg., engr. Archer & Allen, Central Savings Bank Bldg., archts.

N. J., Hillside (mail Elizabeth)—SCHOOL—May 11, by Bd. Educ. Hillside Twp., Central Grammar and High School, Coe Ave., for P. S. 7, Gurd Ave. C. Godfrey Poggi, 275 Morris Ave., Elizabeth, archt.; adv. E. N.-R. Apr. 29.

N. J., West New York (Ind. br. Weehawken) — HIGH SCHOOL — May 6, by Bd. Educ., Municipal Bldg., G. D. Kilventon, secy., Memorial High School, Park Ave., Bway., 11th and 12th Sts. $700,000. W. Mayer, Jr., 711 Bergenline Ave., archt.

N. C., Louisburg—COLLEGE—May 6, by Bd. Trustees Louisburg College, for Franklin Co. Building, 3 story and basement, brick, incl. science, class room, library and dormitory. $300,000. Noted July 9.

O., Dayton—SCHOOL—May 17, by Bd. Educ., E. S. Schmidt, clk., Cooper School, 2 story and basement and rein.-con., plain foundation, Lowes St. $175,000.

Ind., Gary—HIGH SCHOOL—May 11, by Bd. Educ., 3 story, rein.-con., brick and stone high school. $500,000. W. B. Ittner, 911 Locust St., St. Louis, Mo., archt.

Mich., Lansing—CHEMISTRY—Michigan State College, taking bids 3 story and basement, rein.-con., brick and steel, plain foundation, campus. $250,000. Malcolmson & Higginbotham, 1217 Griswold St., Detroit, archts.

Wis., Black River Falls—SCHOOL—Bd. Educ., A. P. Jones, clk., taking new bids 2 story, 63 x 113 ft., rein.-con., brick and steel school. $150,000. E. Tough, Washington Bldg., Madison, archt. Noted Feb. 25.

Wis., Madison—CHURCH—St. Bernards Catholic Congregation, c/o W. Eggers, pastor, 735 Atwood Ave., and Small & Flad, archts., Ellsworth Bldg., taking bids 1 story, 71 x 154 ft., rein.-con., brick, steel and sandstone, Atwood Ave. $150,000.

Wis., Sparta—SCHOOL, etc.—May 10, by State Bd. Control, A. W. Bagley, secy., Madison, 2 story, 60 x 150 ft., rein.-con., brick and steel school and cottages, here. A. Peabody, State Capitol, Madison, archt. Noted Mar. 11.

Tex., Wichita Falls—CHURCH—May 10, by J. W. Johnson, pastor First Methodist Congregation, 2 story and basement, brick, stone and rein.-con., 10th and Lamar Sts. $40,000. W. W. Watkins, 212 Scanland Bldg., W. C. Hedrick, 1005 First Natl. Bank Bldg., Ft. Worth, and C. J. Pate, 1005 City Natl. Bank Bldg., associated archts.

Calif., Los Angeles — CHURCH — E. G. Martin, archt., Citizens Natl. Bank Bldg., taking bids brick and steel, 3rd St., for Roman Catholic Archbishop of Los Angeles. $150,000.

Calif., Van Nuys—HIGH SCHOOL—May 5, by Los Angeles Bd. Educ., 2 story, 75 x 225 ft. domestic science building, 1 story, 72 x 223 ft. manual arts building, and 1 story, 30 x 40 ft. boiler house, here. $166,000. Noted Feb. 18.

Calif., Whittier — SCHOOL — May 6, by Trustees Whittier School Dist., Bailey School, 2 story, rein.-con. $175,000. Austin & Ashley, Chamber of Commerce Bldg., Los Angeles, archts. Noted Mar. 25.

Ont., Windsor—SCHOOL—May 13, by T. Noble, secy. Bd. Educ., 24 room school, Tecumseh Rd. $140,000. Noted Jan. 14.

Bids Received

N. Y., Pelham (Ind. br. New York)—SCHOOL—Bd. Educ., Apr. 22, general contract, altering and constructing 2 story, 50x100 ft., brick, steel and stone addition to Hutchinson School, plain foundation, from W. A. Berbusse, Jr., Puritan Dr., Port Chester, $188,000; heating, from Johnston Heating Co., 131 East 26th St., New York City, $41,175. Noted Apr. 8.

Buildings—Educational, Religious (Cont.)

N. Y. Richmond Hill (ind. br. Jamacia) —SCHOOL—W. H. Gompert, engr. and archt., Flatbush Ave. extension and Concord St., Brooklyn, general contract P. S. 124, Stanley and Blackstone Ave., here, for Bd. Educ., 500 Park Ave., New York City, from Hayson Constr. Co., 44 Court St., Brooklyn, $337,000; heating, from Almirall & Co., 1 Dominick St., New York City, $42,633. Noted Apr. 8.

N. J., Newark—SCHOOL—Bd. Educ., Apr. 21, general contract, altering and constructing brick, steel and stone addition, plain foundation, Maple Ave., from Fatzler Co., 676 South 16th St., $122,900. Noted Dec. 17.

Pa., Wynnewood—SCHOOL—School Bd. Lower Merion Twp., Apr. 19, general contract 2 story and basement, 42 x 188 ft., and 91 x 174 ft. school, Argle Rd., from G. H. Evans, 105 North 13th St. $318,846; heating and ventilating from Amer. Heating & Ventilating Co., Schaff Bldg., $31,895. Noted Apr. 15.

Ind., Evansville—HIGH SCHOOLS—Bd. School Trustees, Apr. 5, Francis Reitz High School, masonry work, from C. Kanzler & Son, 500 Furn Bldg., $106,862; also Bosse High School and stadium, from Scarborough-Davies Co., Old St. Bldg., $110,882. Noted Mar. 25.

Contracts Awarded

Mass., Cohasset — SCHOOL — Town, Schoolhouse Comn., 1 story and basement, 125x140 ft., brick and stone, plain foundation, Summer and Main Sts., to R. H. Bean, Inc., 14 Central Ave., Lynn. Archts. est. $150,000. Noted Apr. 22.

Mass., Jamaica Plain (Boston P. O.) — SCHOOL — St. Thomas Roman Catholic Church, E. J. Moriaty, pastor, 2 story and basement, 40 x 150 ft., brick, stone and steel, to J. W. Griffin Co., 15 Exchange St., Boston. Archts. est. $150,000.

Mass., New Bedford — CHAPEL and SCHOOL—Our Lady of Perpetual Help, c/o Leary & Walker, archts., 1st Natl. Bank Bldg., 1 and 2 story and basement, brick and stone, Acushnet Ave., to Carey Quarry & Constr. Co., 56 North Main St., Fall River. Archts. est. to exceed $150,000.

Mass., Worcester — CHURCH — St. Josephs Roman Catholic Church, 34 Wall St., 1 story and basement, 75 x 190 ft., brick and stone, plain foundation, Hamilton St., to J. J. Roberts, 4 Wall St. Archts. est. to exceed $150,000. Noted Dec. 24.

R. I., Providence—SCHOOL—City, com. Pub. Buildings, City Hall, general contract 2 and 3 story and basement, 85 x 90 ft. and 90 x 170 ft., brick and stone, plain foundation, America St., to Greaney & Sherry, 827 Davol St., Fall River, Mass., $413,000; heating and ventilating, to Files Eng. Co., 75 Westminster St., $46,922. Noted Apr. 22.

N. Y., Astoria (sta Long Island City)—CHURCH—Trinity Lutheran Church of Astoria, 346-9th Ave., F. H. Lindeman, pastor, brick, steel and stone, plain foundation, to Moore & Patience, 103 Park Ave., New York City, Noted Apr. 8.

N. Y., Hollis (mail Jamaica)—SCHOOL—W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, general contract P. S. 118, Wildey Ave., here, for Bd. Educ., 500 Park Ave., New York City, to G. F. Driscoll Co. 548 Union Ave., Brooklyn, $289,387; heating, to H. Starkman & Bros., 333 East 81st St., New York City, $35,160. Noted Apr. 15.

N. Y., Mariners Harbor (Ind. Sta. Staten Island)—SCHOOL—W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, general contract P. S. 44, Maple Parkway, here, for Bd. Educ., 500 Park Ave., New York City, to Carleton Co., Inc., 151 West 42nd St., New York City, $624,333; plumbing, to J. Kahn, 244 West 20th St., New York City, $27,390; and heating, to D. J. Rice, Inc., 606 1st Ave., New York City, $68,817. Grand total $720,540. Noted Apr. 15.

Pa., Berwick—CHURCH—First Presbyterian Congregation, general contract 1 and 2 story and basement, irregular shaped church, to Berwick Lumber & Supply Co., Berwick, $178,500.

Miss., Laurel — SCHOOL — Bd. Educ., R. H. Watkins, supt., 2 story, 154 x 265 ft., concrete and brick school, to A. Blair, 11 South Lawrence St., Montgomery, Ala. Noted Feb. 18.

Ill., Urbana — PHARMACY — University of Illinois, general contract 4 story and basement, 85 x 112 ft., 715 South Wood St., to C. A. Moss, Constr. Co., 133 West Washington St., Chicago. Archts. est. $400,000. Noted Sept. 10.

Wis., Waukesha — HIGH SCHOOL — Bd. Educ., E. R. Estberg, pres., general contract (1st unit) Junior High School, 2 story and basement, brick and concrete, plain foundation, to Pehrson Bros., 555 Temple Court, Minneapolis, Minn., $114,888. Noted Apr. 1.

Ia., Decorah — GYMNASIUM — Luther College, general contract 2 story and basement, 100 x 120 ft., rein.-con., steel and stone, to A. R. Coffeen, Decorah, $134,132.

Calif., San Francisco—CHURCH—Roman Catholic Archbishop, 1100 Franklin St., steel and rein.-con., Masonic Ave. near Page St., to Vogt & Davidson, 185 Stevenson St., approximately $154,500. Noted Jan. 21.

Federal Government Work

Proposed Work

Ill., Great Lakes (br. Waukegan)—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., takes bids about May 1, 1 and 2 story, rein.-con. and tile, here. $600,000.

Bids Desired

R. I., Newport—Tile Lining—Spec. 5213—May 12, by Bureau Yards & Docks, Navy Dept., Wash., D. C., tile lining swimming pool, at Naval Training Station, here.

Conn., New London—Refrigerating Plant —Spec. 5199—May 12, by Bureau Yards & Docks, Navy Dept., Wash., D. C., automatic refrigerating plant, with 2 ton motor-driven ammonia refrigerating machine, etc. L. E. Gregory, ch. bureau.

Md., Annapolis—Mains, etc.—Spec. 5203 and 5175—May 12, by Bureau Yards & Docks, Navy Dept., Wash., D. C., underground and subaqueous water mains, and improving coal handling plant, at Naval Academy, here. L. E. Gregory, ch. bureau.

Fla., Miami—Remodeling—May 14, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, court house and custom house, here. J. A. Wetmore, acting supervising archt.; adv. E. N.-R. Apr. 29.

Miss., Vicksburg — Levee — May 12, at office Third Mississippi River Dist., P. O. Box 404, for 6,747,000 cu.yd. levee work in quantities varying from 20,000 to 1,250,000 cu.yd.; adv. E. N.-R. Apr. 29.

Indiana — Dredging — May 13, by U. S. Engineer Office, 537 South Dearborn St., Chicago, Ill., dredging in Indiana Harbor Canal, here; adv. E. N.-R. Apr. 29.

Mich., Camp Custer (br. Battle Creek)—Curbs, etc.—May 18, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., L. H. Tripp, ch. constr. div., curbs and gutters at U. S. Veterans Hospital 100, here.

Ill., Great Lakes (mail Waukegan)—Apartment—Spec. 5158—May 12, by Bureau Yards & Docks, Navy Dept., Wash., D. C., brick, steel and stone apartment for officers quarters, at Naval Training Station, here. L. E. Gregory, ch. bureau. Noted Apr. 22.

Arizona—Road—May 11, by C. H. Sweetser, dist. engr. Bureau Pub. Rds., Washington St., Phoenix, grading, crushed rock surfacing, etc., 5,600 cu.yd. Clifton-Springerville (Greenlee Co. Sect.), Natl. Forest Rd. Project, in Apache Natl. Forest, Greenlee Co.

Oregon—Needle Valves—May 25, by Bureau Reclamation, Denver, Col., two 48 in. balanced needle valves for McKay Dam, Umatilla Project, here. P. W. Dent, acting comr.; adv. E. N.-R. Apr. 29.

Alaska—Roads—May 11, by Bureau Pub. Rds., M. D. Williams, acting dist. engr., Juneau, improving 3.1 mi. Tongrass Highway, Saxman-Mountain Point Sect. Natl. Forest Rd. Project, 0.62 mi. Glacier Highway, Mendenhall Loop Extension, Natl. Forest Rd. Project 3.12 mi. Salmon River, Cemetery-Fish Creek Sect. Natl. Forest Rd. Project, all foregoing in Tongrass Natl. Forest; also 8.37 mi. Moose Pass, Hope-Sunrise Sect. Natl Forest Rd. Project, in Chugach Natl. Forest.

Bids Received

Mass., Rutland Heights—Refrigeration and Ice Making Machinery—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Apr. 20, refrigeration and ice making plant at U. S. Veterans Hospital 89, here, from Hines Mfg. Co., 418 St. Charles St., Baltimore, $18,300. Noted Mar. 25.

N. Y., Newark—Addition—Treas. Dept. at office Supervising Archt., Wash., D. C., Apr. 20, 1 story extension at U. S. Post Office, here, from King Lumber Co., Charlottesville, Va., $11,989. Noted Apr. 1.

D. C., Wash.—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Courthouse, here, from W. L. Morrison Constr. Co., Metropolitan Bank Bldg., $19,300. Noted Apr. 8.

D. C., Wash. — Granite — Executive Officer Arlington Memorial Bridge Comn., Apr. 22, granite for Arlington Memorial Bridge across Potomac River, from Stone Mountain Granite Co., Stone Mountain, Ga., Contr. 1, $207,000-$240,000, and Contr. 2 part (a) $820,000-$952,000, part (b) $[illegible] 500-$157,500, and part (c) $311,800-$[illegible] 300. Noted Mar. 25.

D. C., Wash.—U. S. Veterans Bureau, Arlington Bldg., Apr. 21, general contract mess and kitchen building, 3 ward buildings, etc. from G. E. Wyne, 292 C. Vogt St. N. W. (1a) $817,700 (1b) $252,9[illegible] (1c) $146,800 (1d) $147,000 (1e) $170,00[illegible] (1f) $70,000 (1g) $10,000 and (1h) $21,000, plumbing, from W. G. Cornell Co., 19 Patterson St. N. E. (2a) $45,608 (2b) $10,[illegible] (2c) $10,832 (2d) $10,832 (2e) $100,832 (2f) $2,821; electrical work, from H. E. Crouse Co., 28 Light St., Baltimore, Md., (4a) $28,840 (4b) $8,883 (4c) $5,010 (4d) $5,167 (4e) $5,834, (4f) $4,102; also constructing Red Cross building, from J. C. Curtis, Denbigh, Va., (1) $182,500 and moving buildings, from Skinker & Garrett, 1416 F St. N. W. (1a) $45,000. Noted Mar. 25.

Ill., Macomb—Extension—Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story U. S. Post Office extension, here, from D. Bright, Clinton, Ind., $3,900. Noted Apr. 1.

Okla., Oklahoma City—Extension—Treas. Dept. at office Supervising Archt., Wash., D. C., extension to U. S. Post Office, here, from A. M. Lundberg, 208 North Bway., St. Louis, Mo., $13,779.

California—Road—C. H. Sweetser, dist. engr. Bureau Pub. Rds., 9 Main St., San Francisco, Apr. 15, grading, etc., 4.9 mi. and 4.8 mi. Tahoe City-Truckee Highway, in Tahoe Natl. Forest, Placer Co., from Isbell Constr. Co., Fresno, $58,326 and $62,372 respectively.

C. Z., Panama — Masts — Spec. 5191 — Bureau Yards & Docks, Navy Dept., Wash., D. C., Apr. 23, guyed masts at Cape Mala, here, from J. E. Lingo & Son, Delaware Ave. and Elm St., Camden, N. J., $3,775. Noted Apr. 15.

Contracts Awarded

Conn., Hartford — Dredging — U. S. Engineers Office, Providence, R. I., dredging in Connecticut River, below here, to Hartford & New York Transfer Co., 285 State St., $15,009. Noted Mar. 4.

N. Y., Syracuse—Mezzanine, etc.—Treas. Dept. at office Supervising Archt., Wash., D. C., mezzanine floor, etc. for U. S. Post Office, here, to W. L. Morrison Constr. Co., Metropolitan Bank Bldg., Wash., D. C., $10,300. Noted Apr. 22.

Pa., Phila.—Steel Fence, etc.—Spec. 5212 —Bureau Yards & Docks, Navy Dept., Wash., D. C., wrought steel fence and gates, to F. Pettit Ornamental Iron Wks., 1505 North Mascher St., $8,526.

Pa., Phila.—Paving—Spec. 5207—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete paving at U. S. Navy Yard, here, to Curtis Bros., State Rd. and Unruh St., Tacony, Phila., $26,820 (75 days). Noted Apr. 15.

Pa., Phila.—Gate Buildings—Spec. 5196 — Bureau Yards & Docks, Navy Dept., Wash., D. C., Apr. 23, 2 gate buildings at Navy Yard, here, to S. S. Lewis, 1238 Real Estate Trust Bldg., $73,478 (105 days). Noted Apr. 8.

Ga., Fitzgerald—Mains in various streets, to Dysard Constr. Co., Austell Bldg., Atlanta, approximately $17,000.

Fla., Pensacola—Storage—Spec. 5187—Bureau Yards & Docks, Navy Dept., Wash., D. C., fuel oil and gasoline storage, at Naval Air Station, here, to Pittsburg, Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., $52,720 (210 days). Noted Apr. 1.

Tenn., Memphis—Levee—Dist. Engineering Mississippi River Comn., 5,600,000 cu.yd. earthwork in Upper St. Francis, Lower St. Francis, Reelfoot and White River Dists., to R. T. Clark, Co., Inc., Natchez, Miss., $384,909. Noted Mar. 25.

Tex., Galveston—Dredging—U. S. Engineer Office, dredging Sabine-Neches Waterway, to F. H. Lovell & Co., Forest St., Arlington, N. J., $3,876. Noted Mar. 18.

Calif., Santa Barbara—Extension—Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story extension to U. S. Post Office, here, to J. A. Malloy, Santa Barbara, $9,475. Noted Apr. 22.

Unclassified

Proposed Work

Fill — Massachusetts — Boston & Maine R.R., F. C. Shepherd, asst. ch. engr., Boston, plans fill solid entire area Millers River Basin in Boston, Cambridge and Somerville. $25,000 or more. Private plans.

Platform — Cambridge (Boston P. O.), **Mass.** — Boston Elevated R.R. Co., 31 St. James Ave., plans steel and concrete raised platforms on both sides Massachusetts Ave. and Central Sq. $25,000. Private plans.

Underpass — Hartford, Conn. — City, Street Bd., R. H. French, plans underpass at junction Albany Ave., Main, High, Ann and Ely Sts., for safety of pedestrians. $25,000 or more. R. N. Clark, City Hall, engr.

Coaling Station—Buffalo, N. Y.—Delaware, Lackawanna & Western R.R., Hoboken, N. J., G. J. Ray, ch. engr., having plans prepared 1,000 ton concrete coaling station, 1,000 ton sand bin and 105 ft. steel turntable. $105,000.

Underpass—Atlanta, Ga.—See "Streets and Roads."

Pier—Ft. Myers, Fla.—Making plans 668 ft. pier out beyond present wall, seawall and buildings. $150,000. E. N. Stanley, Ft. Myers, engr.

Lighting System—Winter Park, Fla.—Voted $50,000 bonds, extending lighting system.

Grade Crossing Elimination — Nashville, Tenn.—State Dept. Highways & Pub. Wks., plans resurfacing concrete overhead crossing over Louisville & Nashville R.R. tracks, on Nashville-Gallatin Rd., 6 mi. north of here, Davidson Co. To exceed $25,000. C. N. Bass, highway engr.

Grain Elevator—Decatur, Ill.—A. E. Staley Mfg. Co. having plans prepared 2,000,000 bu. grain elevator of circular tank construction, 24 in. diam., 100 ft. high, also 175x200 ft. rein.-con. and steel work houses, concrete pile foundation, Decatur and Staley Sts. $1,000,000. Engineer and architect not selected.

Park Development—East St. Louis, Ill.—East St. Louis Park Dist., Cahokia Bldg., voted $500,000 bonds, developing Big Lake Park, incl. roads, drainage, landscaping, athletic field, golf course, etc. Noted Mar. 18.

Park and Playground—Madison, Wis.—City, W. Winckler, clk., plans purchasing site and constructing park and playground, Bedford and West Dayton Sts. $30,000. Engineer not selected.

Stadium—St. Louis, Mo.—Bd. Educ. making plans (1st unit), rein.-con. stadium, 15,000 seating capacity, and athletic field, Kingshighway and Natural Bridge Aves. $350,000. R. M. Milligan, 911 Locust St., comr. buildings.

Parks and Playgrounds — Webster (ind. br. St. Louis), **Mo.**—Election May 15, $225,000 bonds, purchasing, equipping and improving 5 parks and playgrounds. Noted Mar. 4.

Town Site, etc.—Olmito (mail Brownsville) **Tex.**—A. Parker, Brownsville making plans town side here, incl. bridge across the Resaca, paving streets on 1,000 acre tract, waterworks, light plants, 50 room tourist hotel, artificial lake swimming pool, etc. $600,000. W. H. Ampher, La Feria, engr.

Subway — Longview, Wash. — See "Bridges."

Under Crossing — Seattle, Wash. — See "Streets and Roads."

Plunge Building — Los Angeles, Calif. — W. G. English, 305 Chapman Bldg., had plans prepared by A. Hesse, 320 Union Oil Bldg., 2 story and basement, 135 x 213 ft., brick plunge building, incl. 4 pools, Gordon St. and Sunset Blvd. To exceed $20,000.

Freight Terminal — Oakland, Calif. — Drayage Serv. Corp., 4th and Castro Sts., plans 1 story, 126 x 481 ft., rein.-con. freight terminal, incl. administration building, garage, and loading platforms, 18th St. and Peralta Ave.

Swimming Pool—San Jose, Calif.—San Jose Rotary Club making plans 68 x 80 ft. rein.-con. pool, 2 to 5 ft. deep, pumping plant, dressing rooms, etc. $30,000. C. B. McKenzie, Bank of San Jose Bldg., archt.

Power Development, etc. — Ontario — Hydro-Electric Power Com. of Ontario, 305½ Bank St., Ottawa, plans developments, extensions, transformer stations, condenser stations, distribution systems, transmission lines, etc., for year ending Oct. 31, 1927, Niagara System $7,125,000, Georgian Bay System $415,000, St. Lawrence and Ottawa Systems $250,000, Rideau System $17,000, Thunder Bay System $5,055,000, Central Ontario System $490,000, and Nipissing System $140,000; miscellaneous expenditures in general service $600,000, and provincial $83,829.

Coal Handling Plant—Port Stanley, Ont.—Century Coal Co., 145th St. James St., Montreal, plans equipping coal handling plant, here. $75,000.

Docks — Port Stanley, Ont. — London & Port Stanley Ry., London, plans improving docks, here. $25,000.

Bids Desired

Shore Protection—Massachusetts—May 6, by Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, improving Highway-Hancock St., Quincy Shore Reservation, 6,000 ft. concrete shore protection, 22 tons crushed stone, 17,000 ft. granite curbing, 15,000 cu.yds. excav., 20,000 cu.yd. filling. To exceed $25,000. J. R. Rablin, c. o. owner, engr.

Standpipe and Elevated Tank — Quincy (Ind. br. Boston) **Mass**—May 6, by Dept. Pub. Wks., 1 m.g. capacity rein.-con. standpipe at Penns Hill, 300,000 gal. capacity rein.-con. elevated tank at Squantum, and 400,000 gal. capacity tank at Houghs Neck $30,000 bonds. J. J. Cosgrove, comr.

Waterproofing Standpipe—Walpole, Mass.—May 28, at office A. F. Hart, town engr., waterproofing standpipe for Town; adv. E. N.-R. Apr. 29.

Fire Alarm System, etc.—Utica, N. Y.—May 19, by State Hospital Comn., Capitol, Albany, fire alarm system, exit facilities, fire stops, and replacing electric wiring at Utica State Hospital, here. S. W. Jones, state archt.; adv. E. N.-R. Apr. 29.

Bulkhead, etc. — Bayonne, N. J. — See "Streets and Roads."

Wharf—Mobile, Ala.—May 31, by Alabama State Docks Comn., State Office Bldg., concrete apron wharf for Pier 1. W. I. Sibert, chn.; adv. E.N.-R. Apr. 29.

Lighting System—Peoria, Ill.—May 3, by Bd. Local Impvts., City Hall, 2 mi. ornamental electrical lighting system on Knoxville Ave., incl. 91 ornamental metal posts complete, 15 ft. high, cable, coil lamps, etc. $30,000. W. E. Backes, City Hall, engr.

Boiler, etc.—Mason City, Ia.—May 3, by C. L. Pillsbury Co., consult. engrs., 2344 Nick Ave., Minneapolis, Minn., furnishing and setting one 250 hp. boiler, 250 hp. mechanical stoker, coal and ash handling equipment, also resetting two 150 hp. boilers and minor building alterations, here, for Bd. Educ.

Overhead Crossing — Washington — See "Streets and Roads."

Heating, etc.—London, Ont.—May 15, by J. M. Moore, archt., 489 Richmond St., heating, plumbing, and ventilating offices, for London Life Insurance Co., 424 Wellington St. $100,000.

Bids Received

Scale Pit, etc.—New York, N. Y.—Bd Transportation, J. H. Delaney, chn., 49 Lafayette St., Apr. 23, constructing scale pit and foundation for coal pockets in Lenox Ave. and 148th St. Yard, from Hart & Early, Inc., 18 East 41st St., $19,140. Noted Apr. 15.

Unloader—New Orleans, La.—Bd. Port Comrs., New Court House, Apr. 20, marine log unloader at Stuyvesant Docks from Folwell Ahlskog, 323 North Michigan Blvd., Chicago, Ill., $137,560; electric motors, from L. C. Reed, Hibernia Bldg., $3,302; 1,900 lin.ft. rubber belts, from Goodyear Tire & Rubber Co., 830 Howard Ave., $4,400. Noted Mar. 25.

Wharf—New Orleans, La.—Bd. Port Comrs., New Court House Bldg., reconstructing Manville St. Wharf, from O'Brein Constr. Co., Q & C Bldg.; approximately 985,000 lin.ft. creosoted timber, from Gulf States Creosote Co., Chalmette St. $73,378; and coal conveyor belts, from U. S. Rubber Co., 201 North Front St., $11,575. Noted Apr. 8 under "Materials."

Rolling Doors — San Francisco, Calif. — State Bd. Harbor Comrs., Ferry Bldg., Apr. 8, steel rolling doors for Pier 50, from Price Teltz Co., 523 Market St., $29,250. Noted Apr. 1.

Contracts Awarded

Gas Distributing System — Greenwich, Conn.—Greenwich Gas Co. retained Stone & Webster, Inc., 147 Milk St., Boston, to design and construct 8 mi. 6 in. high pressure transmission line, 8 reducing governor stations, 40 mi. high pressure distribution main and 2,000 gas. service connections, each incl. meter and governor, also 2 story, 25 x 75 ft. service building. C. F. Green, constr. supt.

Park Improvements—Thomaston, Conn.—Town, R. H. French, comr., High St., improving Center Park, adding soil, new turf, sidewalks, constructing concrete band stand, etc., to C. H. Kinney Co., 39 Elmwood Ave., Waterbury. Engrs. est. $25,000. Noted Mar. 25.

Steel Car Floats—Phila., Pa.—Pennsylvania R.R. Co., O. C. Shand, ch. engr. Broad St. Sta., 4 steel car floats each 250 ft. long to have beam of 32 ft., 10 to 12 car capacity, and 2 lines railway tracks with loading platform running lengthwise between tracks, to William Cramp & Sons Ship & Engine Building Co., Richmond and Norris Sts.

Swimming Pool — Detroit, Mich. — See "Buildings—Commercial."

Grain Silo—Milwaukee, Wis.—Chicago, Milwaukee & St. Paul R.R. Co., Union Sta., Chicago, Ill., C. F. Lowther, ch. engr., grain silos and working house, rein.-con., plain foundation, 6th Ave., to Burrell Eng. & Constr. Co., 513 West Jackson Blvd., Chicago, Ill. Engrs. est. $500,000. Noted Apr. 15.

Grain Elevators—Superior, Wis.—C. T. Mears, pres. Itasca Elevator Co., 710 Bd. of Trade Bldg., Duluth, Minn., 15 grain bins each 95 ft. high, 24 ft. diam., concrete on pile and concrete foundations, here, to Barnett & Record Co., 418 Lyceum Bldg., Duluth, Minn., $380,000.

Culverts—Logan, Ia.—See "Bridges."

Ornamental Lighting System — Los Angeles, Calif. — Ornamental lighting system on Figueroa St. between Jefferson St. and Mt. Vernon Ave., etc., to A. C. Rice, 1957 Santee St., $33,436. Noted Mar. 25.

Lamp Standards—Vancouver, B. C.—For 500 ornamental single c.i. light standards to Wallace Fdry. Co., Granville Island. $23,860. Noted Feb. 4.

Street Lighting System—Vancouver, B. C.—City, street lighting throughout West End area, 80,000 lb. 1 and 1½ in. conduit for extensions, to Cope & Sons, Ltd., 150 Hastings St. W., $6,200; 60,000 ft. lead covered cable 6, 8 and 10, to F. Darling & Co. Ltd., 1144 Homer St., $12,110; and 10,000 lamps 250, 300 and 540 watts, to Canadian General Electric Co. and Laco Co., $905 each.

Materials

Proposed Work

Road Oil — Greenbush, Ill. — Greenbush Twp. plans furnishing and spreading 2 or 3 car loads road oil for township roads. C. Mitchell, highway comr.

Bids Desired

Road Oil—Hartford, Conn.—May 5, by Bd. Contr. & Supply at Mayor's Office, Municipal Bldg., road oil, f.o.b. tank cars, Hartford. C. DeLancey Alton, Jr., secy.; adv. E. N.-R. Apr. 29.

Gravel—Long Island City, N. Y.—May 4, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 5,000 cu.yd. ¾ in. quartz gravel.

Cement, Sand, etc.—Corinth, Miss.—See "Streets and Roads."

Timber, etc.—New Orleans, La.—See "Unclassified."

Drain Tile—Emmetsburg, Ia.—May 5, by Auditor Palo Alto Co., 40,900 ft. 6 in., and 2,450 ft. 8 in. drain tile, also 17 intakes.

Portland Cement—Fergus Falls, Minn.—May 3, by H. J. Collins, city clk., 1 carload more or less portland cement.

Pipe Culverts—Regina, Sask.—May 1, by H. S. Carpenter, deputy minister, 32,000 ft. 12 in., 13,000 ft. 18 in., 5,600 ft. 15 in., and 6,600 ft. 24 in. pipe culverts, for Dept. Highways.

Asphalt, etc.—Montreal, Que.—May 3, by City Executive Com., for asphalt, bituminous dust layer and stone dust.

Bids Received

Sewer Brick—Boston, Mass.—Bd. Pub. Wks., City Hall, 260,000 sewer bricks, from J. P. O'Connell Co., 11 Beacon St., Boston, $25.00 per M. Noted Apr. 1.

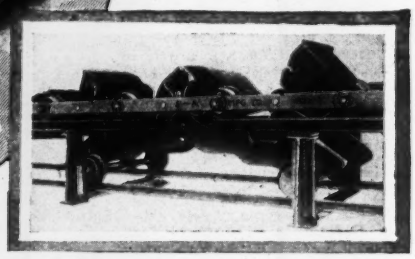
Contracts Awarded

Curbing and Headers—Hartford, Conn.—City, Bd. Contr. & Supply, granite curbing and headers, to J. Cronsell, 7 Mosart St., West Hardford, $5,644.

Cement, Expansion Joints, etc.—Greenville, Miss.—Washington Co., to M. L. Virden Lumber Co., Greenville, 14,000 bbl. portland cement, at $2.93 per bbl., and 9,500 ft. ¾ in. expansion joints at $16.55 per 100 ft.; to Clark Building Material Co., Jackson, 66,000 ft. ¾ in. plain round bars $2.54 per 100 lb., and 20,000 lin.ft. ½ in. square deformed bars at $2.74 per 100 lb.

See proposal advertising on page 114, Advertising Section

FARRELL'S 85



Stephens-Adamson Uses FARRELL'S 85 Where The Wear Comes

CONTINUOUSLY, day in and day out, the buckets of this Stephens-Adamson bucket carrier travel over the tripper.

To withstand the constant wear, Stephens-Adamson builds the tripper side frames of FARRELL'S 85.

But wear resistance is only one of the many desirable qualities of FARRELL'S 85. In strength it exceeds nickel steel. There is no distortion or flowing under repeated blows (a weakness of some alloy steels). Nor does high wear resistance mean an undue sacrifice of ductility and resistance to shock.

Wherever a casting is subject to high strain or excessive wear, FARRELL'S 85 gives longer life at very little increase in cost.

Use FARRELL'S 85 for dipper teeth, bucket lips and everywhere replacements are now frequent.

The Farrell-Cheek Steel Foundry Company
Third Street, Sandusky, Ohio
Western Office: 19 S. La Salle St., Chicago, Ill.

FARRELL-CHEEK

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Power plant, Muscle Shoals, Ala., Mississippi Power Co. plans power plant and dam on Tennessee River, $20,000,000.

Paper mill, Kapuskasing, Ont., Spence Falls Power & Paper Co. having plans prepared, $5,000,000.

Theatre, Hotel, and Store, Chicago, Ill., American Amusement Co., having plans prepared, $2,800,000.

Oil Refinery, Robinson, Ill., Lincoln Oil Refining Co. plans new buildings, $2,500,000.

Sewers, Webster Groves, Mo., making preliminary plans for 8 to 36 in. sewers, $2,000,000.

Tunnel and storage reservoir, Ojai, Calif., Ojai Irrigation Dist. making plans, $2,000,000.

Apartment, Chicago, Ill., C. W. Morris had plans prepared, $1,750,000.

Paving and curbing, Fordson, Mich., making plans for street work, $1,600,000.

Reservoirs and canals, Placerville, Calif., El Dorado Irrigation Dist., plans bond election, $1,500,000.

Theatre, store, and apartment, Chicago, Ill., C. Andrews, et al., plans building, $1,500,000.

Social center, Seattle, Wash., University of Washington having plans prepared, $1,500,000.

Schools, Raleigh, N. C., voted $1,300,000 bonds for new schools.

Office, Baltimore, Md., Civic Centre Realty Co. having plans prepared, $1,250,000.

Water system, Amarillo, Tex., making plans for water system, $1,000,000.

Levee system and flood control, Mexico, Mexican government making preliminary plans, $1,000,000.

Hotel, Mineral Wells, Tex., Mineral Wells Hotel Co. plans building, $1,000,000.

Hotel, Hendersonville, N. C., J. Wells plans building, $1,000,000.

City Hall, Atlanta, Ga., city having preliminary plans prepared, $1,000,000.

Wharf, Limoiton, Que., Anglo-Canadian Pulp & Paper Co. plans wharf, $1,000,000.

Bids Wanted

Club, and hotel, New York, N. Y., Cinema Club of America, Inc., soon takes bids, $4,000,000.

City Hall, Philadelphia, Pa., May 19, G. H. Giles, dir. Pub. Wks., $2,000,000 or $3,100,000.

Contracts

High School, New York, N. Y., Bd. of Educ. to several contracts, grand total, $2,795,882.

Sewers, Long Island City, N. Y., M. E. Connolly to Highway Impvt. & Repair Co., grand total, $2,570,150.

Church and Hotel, New York, N. Y., Calvary Baptist Church to R. M. Catts Corp., $2,500,000.

Hospital, Los Angeles, Calif., Good Samaritan Hospital to Scofield Eng. Co., $1,215,000.

Shops, Decatur, Ill., Wabash R.R. Co. to the Foundation Co., N. Y. C., $1,000,000.

Classified Index of Bids Wanted

Waterworks

Bids close — *See Eng. News-Record*

May 7 Phila., Pa. ..... May 6
May 10 Cedar Grove, N. J. ..... May 6
May 10 Jamesburg, N. J. ..... May 6
May 10 Flat Rock, Mich. ..... May 6
May 10 Milwaukee, Wis. ..... May 6
May 10 South Belmar, N. J. ..... May 6
Adv. May 6.
May 11 Perry, N. Y. ..... Apr. 15
May 11 Cape May, N. J. ..... Apr. 29
May 11 Long Island City, N. Y. ..... May 6
May 12 Baltimore, Md. ..... May 6
May 13 Port Arthur, Tex. ..... May 6
May 14 Oakland, Calif. ..... Apr. 22
May 14 Brooklyn, N. Y. ..... May 6
May 15 Nelliston, N. Y. ..... May 6
Adv. Apr. 29 and May 6
May 18 Hagerstown, Md. ..... Apr. 22
Adv. Apr. 22 to May 6.
May 19 Augusta, Me. ..... May 6
May 21 Oakland, Calif. ..... Apr. 22
May 24 Norwalk, Conn. ..... May 6
Adv. May 6.
May 25 St. Louis, Mo. ..... May 6
May 29 Gulfport, Miss. ..... Apr. 29
June 2 New York, N. Y. ..... May 6
Adv. May 6.

Sewers

May 7 North Plainfield (mail Plainfield), N. J. ..... Apr. 22
May 7 Lakewood, N. J. ..... Apr. 29
May 7 Cleveland, O. ..... May 6
May 10 Richmond, Va. ..... Apr. 29
May 10 Wanamingo, Minn. ..... Apr. 29
May 10 West Roxbury (sta. Boston), Mass. ..... Apr. 29
May 10 Royal Oak (Ind. br. Detroit), Mich. ..... May 6
May 10 Kent, O. ..... May 6
May 11 St. Paul, Minn. ..... May 6
May 12 Mt. Clemens, Mich. ..... Apr. 29
May 12 Baltimore, Md. ..... May 6
May 12 Brooklyn, N. Y. ..... May 6
May 12 Cleveland, O. ..... May 6
May 13 Oklahoma City, Okla. ..... Apr. 22
May 14 West Haven (br. New Haven), Conn. ..... May 6
May 17 Beverly Hills, Calif. ..... May 6
May 17 Miami, Fla. ..... May 6
May 18 Pasadena, Calif. ..... May 6
May 18 Sacket Harbor, N. Y. ..... Apr. 29
Adv. Apr. 22 to May 6.
May 19 Rye, N. Y. ..... Apr. 29
Adv. Apr. 22 and 29.
May 20 Dexter, N. Y. ..... Apr. 29
Adv. Apr. 22 to May 6.
May 20 Salisbury, Md. ..... Apr. 29
Adv. Apr. 29 and May 6.

Bids close — *See Eng. News-Record*

May 21 La Grange, N. C. ..... Apr. 29
Adv. Apr. 22 to May 6.
May 25 Muskegon, Mich. ..... Apr. 29
May 25 Underwood ..... May 6
Adv. May 6.
May 25 Niles, Ill. ..... May 6
Adv. May 6.
May 25 Plaquemine, La. ..... May 6
Adv. May 6.
May 28 Louisville, Ky. ..... May 6
Adv. May 6.

Waste Disposal

May 27 Galveston, Tex. ..... Apr. 29
June 3 Mobile, Ala. ..... May 6
Adv. May 6.

Bridges

May 7 Dayton, O. ..... Apr. 15
May 7 Detroit, Mich. ..... Apr. 29
May 10 Jacksonville, Fla. ..... Apr. 15
May 10 Safety Harbor, Fla. ..... Apr. 29
May 10 Blackburn, Okla. ..... May 6
May 11 Louisiana ..... Apr. 15
May 11 Bourg, La. ..... Apr. 22
May 11 Washington ..... Apr. 29
May 11 Grand Rapids, Mich. ..... Apr. 29
May 12 Indiana ..... May 6
May 12 Maine ..... Apr. 29
May 12 Gooding, Idaho ..... Apr. 29
May 12 Coraopolis, Pa. ..... May 6
May 12 Somerville (Boston P. O.), Mass. ..... May 6
May 12 Arlington, Vt. ..... May 6
May 13 Mt. Clemens, Mich. ..... May 6
May 14 Vermont ..... May 6
May 14 Ohio ..... May 6
May 15 Paducah, Ky. ..... Apr. 22
May 15 Anderson, Ind. ..... Apr. 8
May 15 St. Pierre le Bicquets, Que. ..... May 6
May 17 New Mexico ..... May 6
May 17 Akron, O. ..... Apr. 29
May 18 Texas ..... Apr. 29
May 18 New Orleans, La. ..... May 6
May 19 Minneapolis, Minn. ..... Apr. 8
May 19 Pennsylvania ..... Apr. 29
May 19 Akron, O. ..... Apr. 29
May 19 Poughkeepsie, N. Y. ..... May 6
Adv. May 6.
May 19 Kooskia, Idaho ..... May 6
May 21 Akron, O. ..... Apr. 29
May 21 Maskinonge, Que. ..... May 6
May 24 California ..... May 6
May 26 Los Angeles, Calif. ..... May 6
May 27 Louisiana ..... Apr. 29
Adv. Apr. 29 and May 6.
June 1 Sebring, Fla. ..... May 6
Adv. May 6.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Bids close — *See Eng. News-Record*

May 8 Sycamore, Ill. ..... Apr. 22
May 8 DeKalb, Ill. ..... Apr. 29
May 8 Wisconsin ..... May 6
May 11 Onawa, Ia. ..... May 6
May 11 Goderich, Ont. ..... May 6
May 12 New Madrid, Mo. ..... Apr. 29
May 15 Brownsville, Tex. ..... May 6
May 18 Sioux City, Ia. ..... May 6
May 24 Buffalo, N. Y. ..... Apr. 22
June 1 Galveston, Tex. ..... Apr. 29

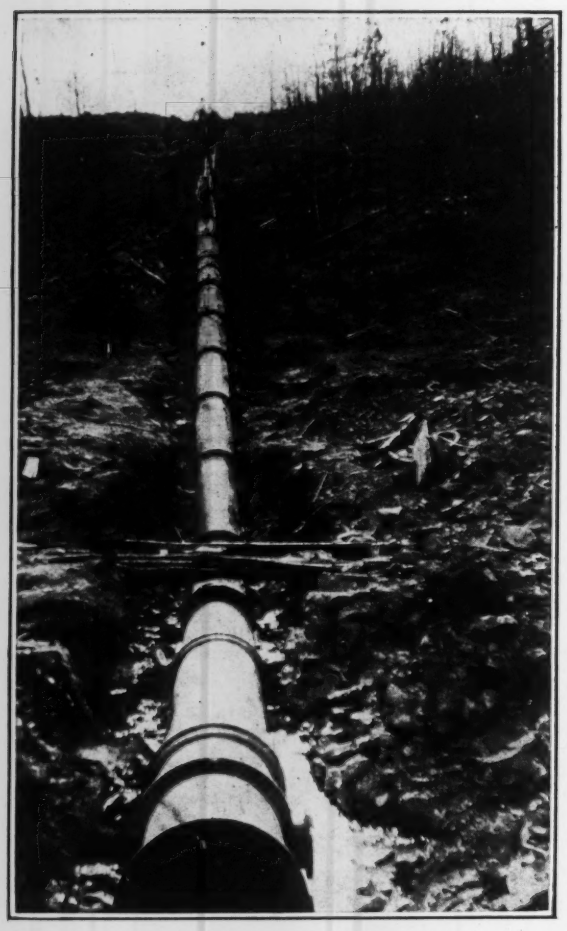
Streets and Roads

May 7 Pennsylvania ..... Apr. 15
May 7 Salem, N. J. ..... Apr. 22
May 7 Fulton, N. Y. ..... Apr. 22
May 7 Montgomery, Pa. ..... Apr. 22
May 7 New York ..... Apr. 22
Adv. Apr. 22 to May 6.
May 7 Noblesville, O. ..... Apr. 29
May 10 New Jersey ..... Apr. 22
May 10 Akron, O. ..... Apr. 22
May 10 Kentucky ..... Apr. 22
May 10 St. Clairsville, O. ..... Apr. 29
May 10 Steelton, Pa. ..... May 6
May 10 Paw Paw, Mich. ..... May 6
May 10 New York, N. Y. ..... May 6
May 10 Long Island City, N. Y. ..... May 6
May 11 Maryland ..... Apr. 29
May 11 Washington ..... Apr. 29
May 11 North Dakota ..... Apr. 29
May 11 Massachusetts ..... Apr. 29
May 11 Cincinnati, O. ..... May 6
May 11 Columbus, O. ..... May 6
May 11 Storm Lake, Ia. ..... May 6
May 11 Iowa City, Ia. ..... May 6
May 11 Baltimore, Md. ..... May 6
May 11 New Hampshire ..... May 6
May 11 Massachusetts ..... May 6
May 11 Boston, Mass. ..... May 6
May 11 Indiana ..... May 6
May 12 Wisconsin ..... May 6
May 12 Frederick, Okla. ..... May 6
May 12 Glenville, W. Va. ..... Apr. 29
May 12 Mississippi ..... Apr. 29
May 12 Belvidere, N. J. ..... Apr. 29
Adv. Apr. 22 to May 6.
May 12 North Dakota ..... Apr. 29
May 12 Santa Rosa, Calif. ..... Apr. 29
May 12 Atlantic City, N. J. ..... May 6
May 12 Lucknow, Ont. ..... May 6
May 12 Baltimore, Md. ..... May 6
May 12 Sturgis, Mich. ..... May 6
May 12 Sask., Denholm ..... May 6
May 12 Brooklyn, N. Y. ..... May 6
May 12 St. George, N. Y. ..... May 6
May 12 Dorchester (Boston P. O.), Mass. ..... May 6

See proposal advertising on page 156, Advertising Section

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office



Section of 9 miles 30-in. and 36-in. pipe laid with LEADITE

LEADITE, like cast-iron pipe, has proven its durability.

LEADITE has been successfully tested and used for over 30 years for jointing all sizes of cast-iron bell and spigot water mains from 4 in. to 60 in. in diameter, under all pressures and conditions encountered in water-works construction.

Thousands of miles of pipe have been laid with LEADITE.

The most prominent water-works engineers, superintendents and contractors specify and use LEADITE on their work, because it is durable, economical and efficient.

LEADITE saves at least 75%.

LEADITE is the pioneer Self-Caulking Material for c.i. Pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids close — *See Eng. News-Record*

May 13 North Dakota ..... Apr. 29
May 13 Texas ..... Apr. 29
May 13 Bogota (br. Hackensack), N. J. ..... May 6
Adv. May 6.
May 13 Wisconsin ..... May 6
May 13 Windsor, N. C. ..... May 6
May 13 New York, N. Y. ..... May 6
May 13 Greensburg, Pa. ..... May 6
May 14 North Dakota ..... Apr. 29
May 14 Meigs, Ga. ..... May 6
May 14 Iowa City, Ia. ..... May 6
May 14 Ohio ..... May 6
May 14 Trenton, N. J. ..... May 6
Adv. May 6.
May 14 Wauwatosa, Wis. ..... May 6
May 15 Anderson, Ind. ..... Apr. 8
May 15 Memphis, Tex. ..... May 6
May 17 Morgantown, W. Va. ..... Apr. 22
May 17 Pleasant Ridge, Mich. ..... May 6
May 17 Aberdeen, S. D. ..... May 6
May 17 Los Angeles, Calif. ..... May 6
May 17 San Diego, Calif. ..... May 6
May 18 North Dakota ..... May 6
May 18 Baltimore, Md. ..... May 6
Adv. May 6.
May 18 Oxford, Miss. ..... May 6
May 19 North Dakota ..... May 6
May 19 Southmont (Johnstown P. O.), Pa. ..... May 6
May 20 Michigan ..... May 6
May 20 Pennsylvania ..... May 6
Adv. May 6.
May 21 Alma, Kan. ..... Apr. 22
May 21 De Kalb, Miss. ..... May 6
May 24 Huntington, W. Va. ..... May 6
May 24 Garrett, Kan. ..... May 6
May 24 New Jersey ..... May 6
Adv. May 6.
May 24 California ..... May 6
May 25 Wellington, Kan. ..... May 6
May 25 North Dakota ..... May 6
May 25 Manasquan, N. J. ..... May 6
Adv. May 6.
May 25 Washington ..... May 6
May 26 Pratt, Kan. ..... May 6
May 26 Delaware ..... Apr. 29
May 26 Stuart, Fla. ..... May 6
May 27 Dodge City, Kan. ..... May 6
May 27 Charleston, W. Va. ..... May 6
May 28 Medicine Lodge, Kan. ..... May 6
June 1 Birmingham, Ala. ..... Apr. 22

Buildings—Commercial

May 7 Granville, Pa. ..... Apr. 29
May 7 Cleveland, O. ..... May 6
May 8 Frederick, Md. ..... Apr. 29
May 10 New Rochelle, N. Y. ..... Apr. 22
Adv. Apr. 22 to May 6.
May 10 Phila., Pa. ..... May 6
May 10 Lansdowne, Pa. ..... May 6
May 11 New Britain, Conn. ..... Apr. 29
May 14 Farmington, Mo. ..... Apr. 29
May 14 Mason, Mich. ..... May 6
May 14 Okemah, Okla. ..... May 6
May 15 Williamsport, Pa. ..... May 6
May 15 Atlantic City, N. J. ..... Apr. 22
May 17 New Orleans, La. ..... May 6
May 17 Punta Gorda, Fla. ..... May 6
May 18 Columbus, O. ..... Apr. 15

Bids close — *See Eng. News-Record*

May 19 Central Islip, N. Y. ..... May 6
Adv. May 6.
May 19 Yonkers, N. Y. ..... May 6
Adv. Apr. 29 and May 6.
May 19 Phila., Pa. ..... May 6
May 20 Ohio ..... Apr. 15
May 25 Iowa City, Ia. ..... Apr. 15
May 27 Iowa City, Ia. ..... May 6
June 8 Duluth, Minn. ..... May 6
June 14 New York, N. Y. ..... Apr. 29
July 1 Texarkana, Tex. ..... Apr. 22
Sept. 1 Vancouver, B. C. ..... Apr. 22

Buildings—Industrial

May 10 Detroit, Mich. ..... May 6
May 10 Versailles, Mo. ..... May 6
May 11 Weyauwega, Wis. ..... May 6
May 15 Williamsport, Pa. ..... May 6

Buildings—Educational, Religious

May 10 Sparta, Wis. ..... Apr. 29
May 10 Glen Olden, Pa. ..... May 6
May 10 Bridgeport, Conn. ..... May 6
May 11 South Jacksonville (Ind. br. Jacksonville), Fla. ..... Apr. 22
May 11 Hillside (mail Elizabeth), N. J. ..... Apr. 29
May 11 Gary, Ind. ..... Apr. 29
May 12 West Newton (Ind. br. Boston), Mass. ..... Apr. 29
May 12 Baltimore, Md. ..... Apr. 29
May 12 Milwaukee, Wis. ..... May 6
May 12 Fayetteville, Ark. ..... May 6
May 13 Mechanicsville, Ia. ..... May 6
May 13 Windsor, Ont. ..... Apr. 29
May 13 New York, N. Y. ..... May 6
May 13 Midland, Mich. ..... May 6
May 17 Dayton, O. ..... Apr. 29
May 18 Corning, Ia. ..... May 6
May 19 Danbury, Conn. ..... May 6
May 21 Portsmouth, O. ..... May 6
May 25 Underwood, Ia. ..... May 6
May 25 Oakland, Calif. ..... May 6
June 2 Juniata (br. Altoona), Pa. ..... May 6

Federal Government Work

May 10 Remodeling—Hamilton, O. .. Apr. 22
May 11 Gate Chambers, etc.—Wash., D. C. ..... Apr. 15
Adv. Apr. 15 to May 6.
May 11 Road—Arizona ..... Apr. 29
May 12 Levee—Vicksburg, Miss. ... Apr. 29
Adv. Apr. 29 and May 6.
May 12 Apartment—Great Lakes (mail Waukegan), Ill. ..... Apr. 29
May 12 Mains, etc.—Annapolis, Md. ..... Apr. 29
May 12 Refrigerating Plant—New London, Conn. ..... Apr. 29
May 12 Tile Lining—Newport, R. I. ..... Apr. 29
May 12 Roads—Colorado ..... May 6
May 12 Roads—Wyoming ..... May 6
May 13 Dredging—Indiana ..... Apr. 29
Adv. Apr. 29 and May 6.
May 14 Remodeling—Miami, Fla. .. Apr. 29
May 14 Pipe Line—Wash., D. C. .. Apr. 15
Adv. Apr. 15 to May 6.

Bids close — *See Eng. News-Record*

May 18 Recreation—Augusta, Ga. .. Apr. 15
May 18 Generators—Wash., D. C. .. Apr. 22
May 18 Curbs, etc.—Camp Custer (Br. Battle Creek), Mich. .. Apr. 29
May 18 Extension—Anderson, Ind. .. May 6
Adv. May 6.
May 25 Needle Valves—Oregon ... Apr. 29
May 25 Dredging—Michigan ..... May 6
May 27 Sewer—Wash., D. C. ..... May 6
Adv. May 6.
June 1 Steel Barges—Memphis, Tenn. ..... May 6
Adv. May 6.
June 1 Charleston, S. C. ..... May 6
June 8 Hospital, etc.—North Chicago, Ill. ..... May 6
Adv. May 6.
June 21 Hospital, etc.—Palo Alto, Calif. ..... May 6

Unclassified

May 10 Playground — Baltimore, Md. ..... May 6
May 11 Heating, Plumbing, etc. — Chicago, Ill. ..... May 6
May 13 Camp—Tullahoma, Tenn. .. Apr. 22
May 13 Foundation, etc.—New York, N. Y. ..... May 6
May 14 Tunnel—Oakland, Calif. ... Apr. 8
May 14 Support for Retaining Walls—Long Island City, N. Y. ... May 6
May 14 Timber Piles and Platform — Albany, N. Y. ..... May 6
Adv. May 6.
May 15 Heating, etc.—London, Ont. Apr. 29
May 18 Signal System—Buffalo, N. Y. ..... Apr. 1
May 18 Borings—Phila., Pa. ..... May 6
May 19 Heating, etc.—Buffalo, N. Y. ..... May 6
Adv. Apr. 29 and May 6.
May 19 Fire Alarm System, etc.—Utica, N. Y. ..... Apr. 29
Adv. Apr. 29 and May 6.
May 25 Stadium—Austin, Tex. .... May 6
Adv. May 6.
May 26 Heating, etc.—Kings Park, N. Y. ..... May 6
Adv. May 6.
May 28 Waterproofing Standpipe, etc. —Walpole, Mass. ..... Apr. 29
May 31 Wharf—Mobile, Ala. ..... Apr. 29
Adv. Apr. 29 and May 6.

Materials

May 10 Ballast—Phila., Pa. ..... May 6
May 10 Road Oil—Lambertville, N. J. ..... May 6
May 10 Cedar Posts—Madison, Wis. ..... May 6
May 10 Iron Castings, etc.—New York, N. Y. ..... May 6
May 11 Culvert Pipe—Onawa, Ia. .. May 6
May 11 Rock Asphalt—Chicago, Ill. ..... May 6
May 14 Lumber—New York, N. Y. .. May 6
May 18 Road Oil and Tar — Minnesota ..... May 6

News of New Work

Waterworks

Proposed Work

Mass., Plymouth—Plans improving water system. $45,000 appropriated. Bd. Selectmen, engr.

N. J., Newark—Dept. Pub. Affairs, T. L. Raymond, dir., soon takes bids 2 earth dams and deep outlet channel for increasing city water supply from Echo Lake at Pequannock watershed. J. A. Holmes, hydraulic engr. J. W. Costello, City Hall, ch. engr.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, rejected bids Apr. 20, Torresdale Pumping Station, Contr. 816. G. H. Biles, dir. Noted Apr. 29.

N. C., Old Fort—Town retained Spoon, Lewis & Camp, consult. engrs., Greensboro and Asheville, to make surveys improving water supply system.

N. C., Shelby—Plans 6 m.g. water and pumping station. $165,000.

Fla., Waldo—Election May 11, $30,000 bonds, extending waterworks. E. W. Millican, mayor.

La., Franklin — Voted $150,000 bonds, increasing water supply from Grand Lake, and improving power plant, etc. H. A. Mentz, Hammond, engr. Noted Apr. 29.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Ill., Warsaw—Soon takes new bids waterworks improvements, incl. 250 g.p.m. sand filter plant with pumps, motor, 2,500 ft. 4 and 8 in. c.i. pipe, 100,000 gal. tank on tower, etc. $30,000. E. Flad & Co., 1312 Chemical Bldg., St. Louis, Mo., engrs. Noted Mar. 4.

Wis., Edgerton — Making plans 600 ft. artesian well, and one 500 g.p.m. motor driven pump for additional water supply. W. G. Kirchoffer, Dean Bldg., Madison, engr. Noted Feb. 11.

Wis., Kenosha—C. M. Osborn, city mgr., rejected bids Apr. 15, two 36 in. hydraulic valves, c.i. pipe and specials. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, Ill., engrs. Noted Apr. 22.

Kan., Geneseo — Making preliminary plans new waterworks. $35,000. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, Mo., engrs.

Neb., Elk Creek — Voted $15,000 bonds, improving waterworks. G. Eversole, city clk.

Neb., Nelson—Voted $38,000 bonds, complete filtration plant.

S. D., Sioux Falls — Making preliminary plans improving waterworks, incl. 5 test wells, 300,000 gal. elevated tank, etc. $159,000. Maury & Gordon, 53 West Jackson Blvd., Chicago, Ill., consult. engrs.

Mo., Charleston—Soon takes bids complete waterworks and distribution system. $46,000. F. L. Wilcox, Chemical Bldg., St. Louis, engr. Noted Jan. 28.

Mo., Joplin—See "Unclassified."

Mo., New Madrid—Making preliminary plans additional 4 in. distribution mains, fire hydrants, and complete sanitary sewerage system, incl. pumping plant, etc. $65,000. E. Flad & Co., 1312 Chemical Bldg., St. Louis, engrs.

Mo., Pleasant Hill — Election May 18, $21,000 bonds, improving waterworks. W. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, engrs.

Tex., Amarillo — Making plans water supply system, incl. 16 mi. pipe line 2 pumping stations and reservoir with probable capacity of 5 m.g. $1,000,000. W.

See classified index on bids wanted on page 271

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Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

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Waterworks (Continued)

Kersted, 614 Interstate Bldg., Kansas City, Mo., engr.

Tex., Freeport—Freeport Light, Water & Ice Co., making preliminary plans increasing output from 250 gal. to 750 g.p.m., also pump house and centrifugal pump, etc. $15,000. Private plans.

Tex., Kyle—Election soon $60,000 bonds, new waterworks. Address Mayor.

Tex., Marshall — Voted $50,000 bonds, waterworks improvements. Noted Mar. 18.

Okla., Altus — Making plans new water supply, incl. 18 mi. 24 or 27 in. mains, impounding reservoir. $690,000. Benham Eng. Co., 521 Gumbel Bldg., Kansas City, Mo., engrs. Noted Mar. 11.

Okla., Enid—Voted $215,000 waterworks extension and pumping equipment. F. C. McGruder, Enid, engr. Noted Apr. 15.

Que., Lachine—Plans 3 bed filter plant. $120,000. A. Lopamboise, Lachine, engr.

Que., Lotbinere—M. O. Lemay, plans 4 mi. 6 in. c.i. mains in various streets, for municipality. $40,000. Engineers name withheld.

B. C., Burnaby — Municipality election May 29, $128,000 bonds, additions to waterworks. E. Smith, Municipal Hall, Edmonds, engr.

Bids Desired

Me., Augusta—May 19, at office Metcalf & Eddy, consult. engrs., 14 Beacon St., Boston, Mass., 10 m.g. distributing reservoir, etc., here, for City; adv. E. N.-R. May 6.

Conn., Norwalk—May 24, by Dist. Comrs. 2nd Taxing Dist., City Hall, 2½ m.g. distributing reservoir and appurtenances. N. S. Hill, Jr., 112 East 19th St., New York City, consult. engr.; adv. E. N.-R. May 6.

N. Y., Brooklyn—May 14, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains, etc., in Flatbush, Livonia, Rockaway, Scott, Troy and 19th Aves., Avenues L, R and S, Crystal, Jefferson, 53rd, 64th, 84th, East 27th, East 43rd, West 9th, North 15th and Bay 50th Sts., here.

N. Y., Long Island City—May 11, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains, etc., Ditmars and 60th Aves., Hazen, 23rd, 164th and 171st and Loubet Sts., Edison, Indiana, Olmsted and Tesla Pls., here.

N. Y., Nelliston — May 15, by Village, water and sewerage systems. M. Vrooman, Gloversville, engr.; adv. E. N.-R. May 6.

N. Y., New York—June 2, by State Hospital Comn., Albany, 14 in. main from 1st Ave. at 111th St. to and under Harlem River to pump house of Manhattan State Hospital on Wards Island, here. L. M. Farrington, secy.; adv. E. N.-R. May 6.

N. J., Cedar Grove — May 10, by Twp. Comn., Pompton Ave., water distribution system, stand pipe, pumping station, pumps, etc. Runyon & Carey, 843 Broad St., Newark, engrs.

N. J., Jamesburg—May 10, by Bd. Institutions & Agencies, W. J. Ellis, comr., Trenton, 250,000 gal. tower, pump, pumphouse, etc., at State Home for Boys, here. $35,000. A. B. Mills, State Bldg., Trenton, engr.

N. J., South Belmar — May 10, by Boro. Council, water supply sy tem. F. E. Herbert, mayor; adv. E. N.-R May 6.

Pa., Phila.—May 7, by Comrs. Fairmont Park, 127 City Hall, air lift pumping equipment at aquarium, East Fairmont Park. A. Corson, ch. engr.

Md., Baltimore—May 12, by Bd. Awards, mains and excavating trenches in York Rd., for Bureau Water Supply. V. B. Siems, City Hall, water engr.

Mich., Flat Rock—May 10, by J. E. Mote, village clk., addition to water distribution system, incl. 6,160 ft. each trenching, and pipe, etc. $15,000. L. D. Beckley, 811 Owen Bldg., Detroit, engr.

Wis., Milwaukee—May 10, by Dept. Pub. Wks., R. E. Stoelting, comr., 13,033 ft. 6- to 16-in. c.i. mains in 11 streets. To exceed $15,000. City furnishes pipe. J. Schwada, City Hall, engr.

Mo., St. Louis — May 25, by Bd. Pub. Wks., 208 City Hall, rein.-con. foundation and sub-structure for power plant at Howards Bend Water Works Plant, St. Louis Co. $325,000. A. Pritchard, City Hall, dir. Noted Mar. 18.

Tex., Hico — Taking bids centrifugal pressure pump, 2,500 ft. c.i. pipe, etc. $10,000. Address J. C. Barrow, mayor.

Tex., Port Arthur — May 13, by J. C. Hamilton, city clk., one 10,000 g.p.m. low service and one 2,100 g.p.m. high service motor driven pumps. J. O. Herpin, Port Arthur, superv. engr.

Bids Received

O., Cleveland—Bd. Comrs. Cuyahoga Co., 6,500 ft. 8- to 12-in. c.i. mains in Wooster Pike, from Kassoff & Co., 3182 West 25th St., $32,552. Noted Feb. 4.

Wis., Appleton — Water Comn., Apr. 16, approximately 7,000 ft. 6 in. centrifugal pipe, from Natl. Cast Iron Pipe Co., 122 South Michigan Ave., Chicago, Ill., $5,362.

Contracts Awarded

Conn., Norwalk — Office Comrs. 2nd Taxing Dist., c.i. mains, etc. in various streets, to B. Nicoll & Co., Inc., 294 Madison Ave., New York City, $145,585; valves to Iowa Valve & Fdry. Co., Oskaloosa, Ia., $8,257. Noted Apr. 15.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, Contr. 811, to A. P. Smith Mfg. Co., 111 Norman St., East Orange, N. J., $18,375; Contr. 812, to U. S. Cast Iron Pipe & Fdry. Co., 1421 Chestnut St., $7,266; also Contrs. 815 and 817, to C. M. Brown & Co., Lafayette Bldg., $20,177 and $1,596 respectively. Grand total $47,414. Noted Apr. 29.

O., Bexley (Columbus P. O.) — S. W. Roderick, village clk., 850 ft. c.i. mains in Main St., and 1,700 ft. in Walnut St., to A. F. Riley, 1220 Esper St., Columbus, $5,040; also 9,000 ft. 8- to 12-in. c.i. mains in Cassady Rd., Maryland, Allegheny Aves., etc., to W. Neilson, 169 East Lane Ave., Columbus, $21,665. Noted Apr. 22.

O., Cincinnati — Director Pub. Serv., 10,800 ft. 6- to 36-in. c.i. mains in Central Parkway from 8th and Eggleston Ave., to Findlay St., to Crumley, Jones & Crumley, 906 Main St., $111,211. Engrs. est. $110,000. C. O. Sherrill, City Hall, engr. Noted Mar. 11.

O., Cincinnati—Hamilton Co., 18,587 ft. 4- to 6-in. c.i. mains in Water Supply Line 29, Dist. 3 (Golf Manor), to E. Meier, Ringgold Ave., $36,835. Engrs. est. $39,-924. Noted Jan. 21.

O., Cincinnati — Comrs. Hamilton Co., 43,432 ft. 6- to 10-in. c.i. mains in Water Supply Line 24, Dist. 2 (White Oaks, 2nd Contr.), to J. Dempsey, 5310 Carthage Ave., Norwood, $91,449. Engrs. est. $95,069.

O., Cleveland — Comrs. Cuyahoga Co., 6,500 ft. 8- to 13-in. c.i. mains in Wooster Pike, to Kassouff & Co., 3182 West 25th St., $32,552. Noted Apr. 8.

O., Upper Arlington (Columbus P. O.)—See "Sewers."

Mich., Detroit—Dept. Water Supply, to Robeck-Humphreys, 408 Securities Bldg., Omaha, Neb., c.i. mains, etc. in Contr. 1926-4 $20,787, Contr. 1926-6 $26,912 and Contr. 1926-9 $35,389; to J. W. Toyne, South Bend, Ind., Contr. 1926-5 $25,251 and Contr. 1926-8 $37,232; and to L. J. Clancy, 3137 Canton St., Contr. 1926-7 $24,131. Grand total $169,702. Noted Apr. 2 and 22.

Mich., Detroit — Dept. Purchases & Supplies, 2,625 ft. 48 in. steel pipe, 3 manholes, etc., to J. McNeil Co., 29th St., Pittsburgh, Pa., $29,376. Noted Apr. 22.

Mich., Detroit—Dept. Water Supply, 15,-000 ft. each 6 and 8 in. monolithic pipe, to Amer. Cast Iron Pipe Co., Acipo St., Birmingham, Ala., at $0.64 and $0.91 per ft. respectively; 18,000 ft. 6 in. and 12,000 ft. 8 in. Universal pipe, to Central Fdry. Co., 332 South Michigan Ave., Chicago, Ill., at $0.70 and $1 per ft. respectively; 99,000 ft. 6 in. and 105,000 ft. 8 in. centrifugal pipe, to U. S. Cast Iron Pipe & Fdry. Co., East Burlington St., Burlington, N. J., at $0.72 and $1.02 per ft. respectively.

Ill., Staunton—For 48,000 ft. 2- to 12-in. c.i. pipe, 44 fire hydrants, 65 gate valves, etc., to Cole & Fauber, Marion, $58,799. Noted Apr. 22.

Wis., Kenosha—C. M. Osborn, city mgr., 2½ m.g. rein.-con. reservoir at filtration plant, to O'Dea & Shafer, Genl. Del., Madison, $67,400. Noted Apr. 22.

Wis., Madison—W. Winckler, city clk., 13,083 ft. 6- to 10-in. mains in various streets, to O'Dea & Schafer Co., Oregon Rd. Engrs. est. $15,000.

Tex., Greenville—Class "B" c.i. pipe, to A. D. Duck, Greenville, $54,256. Noted Apr. 8.

Ont., Belle River — Pumps, to Turbine Equipment Co., 73 King St. W.; and filters, to F. Hankin Co., 386 King St. W. Engrs. est. $60,000.

B. C., Vancouver—City, 20,000 ft. 6 in., 5,000 ft. 8 in., and 5,000 ft. 12 in. c.i. pipe, to Grinell Co. Ltd., 1132 Hamilton St., $32,500; same quantity, but lighter pipe, also one hundred 6 in., fifty 8 in. and fifty 12 in. valves, to Evans, Coleman & Evans, Ltd., foot Columbus Ave., $22,539 and $6,144 respectively. Grand total $61,183.

Sewers

Proposed Work

Mass., Adams — Plans sewers in Spring, Crandall and Cherry Sts. $25,000. Address Town Engineer.

Mass., Salem—Plans extending sewerage system. $36,500 appropriated. Sewer Dept., engr.

Conn., Hamden (br. New Haven)—Plans extending sewers in various streets. $100,-000 appropriated. F. W. Wright, Town Hall, engr.

N. Y., Rochester—Plans sewage disposal plant, in Hopper Hollow. $50,000.

N. C., Greensboro—Plans election $300,-000 bonds, storm sewers in various streets. E. B. Jeffress, mayor.

Fla., Waldo — Election May 11, $25,000 bonds, sewers in various streets. E. W. Millican, mayor.

O., Youngstown—Plans sanitary sewer in Crab Creek Dist. $240,000. R. E. Turner, city engr.

Mich., Fordson—Making plans 8,000 ft. sewer in Chase Rd. $600,000.

Ill., Mt. Vernon — Making preliminary plans complete sanitary sewerage system. $275,000. P. B. Wilson, Marion, engr.

Wis., Westby — C. Villand, city clk., making plans 3.5 mi. sewerage system. $25,000. W. G. Kirchoffer, Dean Bldg., Madison, engr.

Kan., Newton—Plans rebuilding sprinkling filter and disposal plant. To exceed $25,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs.

Kan., Onaga—Making preliminary plans sewerage system. $40,000. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, Mo., engrs.

Kan., Wathena — Making preliminary plans sewage disposal plant and sanitary sewers in various streets. $42,000. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, Mo., engrs.

Mo., Charleston—Soon takes bids complete sanitary sewerage system and extensions. $30,000. F. L. Wilcox, Chemical Bldg., St. Louis, engr. Noted Jan. 28.

Mo., Clayton—Making preliminary plans complete sewerage system in West Walnut Manor and Jennings Sewer Dists. Each $200,000 upwards. F. M. Dozier, 730 Leland Ave., engr.

Mo., Joplin—See "Unclassified."

Mo., New Madrid—See "Waterworks."

Mo., Webster Groves (Ind. br. St. Louis) —Making preliminary plans 8- to 36-in. sewers in River Des Peres Dist. 1, to serve Webster Groves, Shrewsbury and Glendale, St. Louis Co. $2,000,000. L. F. Booth, 447 Lee St., A. W. Westrup, 204 East Big Bend St., and C. H. Holekamp, 239 East Swan Ave., comrs.

Mo., Wellston (Sta. St. Louis)—Making preliminary plans 8- to 36-in. sewers in North Wellston Sewer Dist. To exceed $750,000. Ralph & Baxter, Commercial Bldg., Clayton, attys.

Okla., Prague—Voted $28,000 bonds, new sanitary sewerage system. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Apr. 22.

Okla., Wetumka—Election May 11, $30,-000 bonds 1 mi. new outfall sewers, disposal plant, Imhoff tanks, etc. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Mar. 11.

Calif., Glendale—Soon takes bids 30,632 ft. 8 in. vitr. sewers, and 12,246 ft. 6 in. house connections, etc., in Palmer and Magnolia Aves., etc. J. F. Johannsen, city engr.

Calif., Ojai—Made plans, sewage disposal plant, incl. sand filter beds, and centrifugal sewage ejector pumps, and vitr. sewers, etc., in portions of Signal, Blanche Sts., etc. To exceed $25,000. D. S. Miller, Long Beach, engr.

Calif., Redwood City—Made plans 17,140 lin.ft. 4- to 8-in. vitr. sewer, etc. in Central Park 2, Wooster-Witton and Montgomery sub-division. C. L. Dimmitt, city engr.

Calif., San Bernardino — City retained Burns-McDonnell-Smith Eng. Co., engrs., 415 Rives Strong Bldg., Los Angeles, to make surveys, plans, etc. for modern Sewage treatment plant, incl. submains and outfall sewers extending over several miles and passing under San Gabriel River, etc. $750,000.

Ont., Port Colborne—City Council plans sewerage system. $300,000. A. W. Connor, 301 Metropolitan Life Bldg., Toronto, engr.

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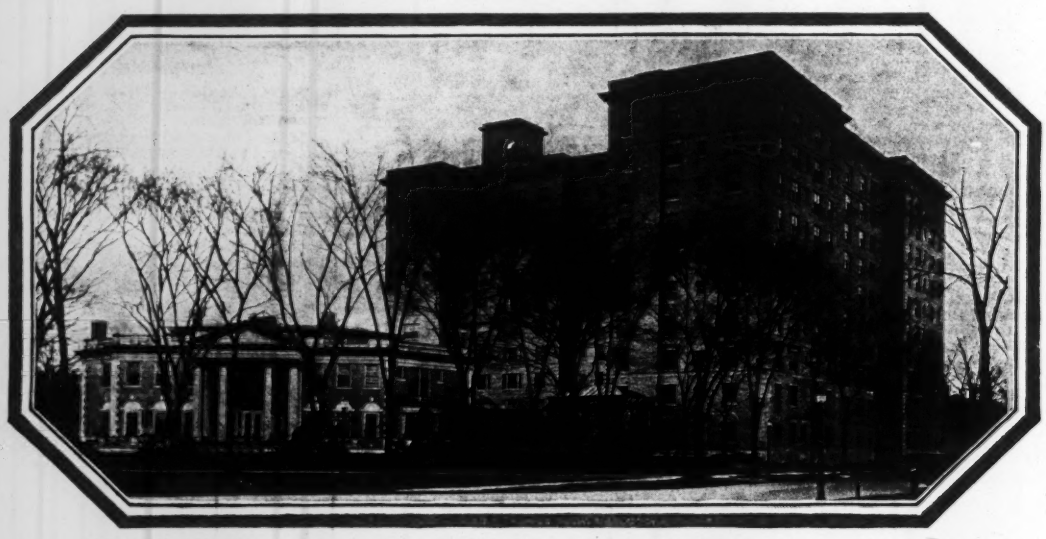

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Sewers (Continued)

Ont., Riverside—Making plans (1st unit) sanitary sewerage system. $55,000. Total $275,000. A. Smith, City Hall, engr.

Bids Desired

Conn., West Haven (br. New Haven)—May 14, by Bd. Selectmen, sewer extensions and pumping equipment with appurtenances. $60,000. Noted Dec. 3.

N. Y., Brooklyn—May 12, by J. A. Guider, pres. Brooklyn Boro, Boro Hall, sewers in East 5th St., Ave. L between East 5th St. and Ocean Parkway, and Ave. L between East 31st and East 32nd Sts.

N. Y., Brooklyn — See "Streets and Roads."

N. Y., New York — See "Streets and Roads."

N. Y., Nelliston—See "Waterworks."

Md., Baltimore—May 12, by Bd. Awards, 810 ft. 24- to 33-in. rein.-con. sewer in Dist. H-1, Sanitary Contr. 235. M. J. Ruark, City Hall, sewerage engr.

Fla., Miami—May 17, by City Comrs., 6,171 lin.ft. concrete, and 1,399 lin.ft. vitr. storm sewers in Sewer Impvt. Dist. 192. C. S. Nichols, Div. Sewage Disposal, engr. Noted Apr. 1.

La., Plaquemine—May 25, by F. Vilbert, mayor, and Bd. Selectmen, storm sewers, sidewalks and curb and gutter improvements. Swanson-McGraw, Inc., Balter Bldg., New Orleans, consult. engrs.; adv. E. N.-R. May 6.

Ky., Louisville — May 28, by Commissioners of Sewerage of Louisville, M. H. Crawford, chn., widening and lowering present creek channel, concreting sides and bottom of same, and remodeling and reconstructing several small sewers across it, known as Beargrass Creek Impvt., South Fork-Sect. H, Contr. 27. J. B. F. Reed, ch. engr.; adv. E. N.-R. May 6.

O., Cleveland—May 12, by City, sewers in Urbana Rd. N. E., East 112th St., Bader, Ira, Schiller Aves., etc. To exceed $100,000. R. Hoffman, City Hall, engr.

O., Kent — May 10, by Bd. Control, sanitary sewers in various sections. $75,000.

Mich., Muskegon—H. L. Brown, archt., 711 Union Bank Bldg., taking bids 10,050 ft. 6- to 8-in. vitr. clay sewers in Glenside sub-division, for Muskegon Utilities Co. $26,000.

Mich., Royal Oak (Ind. br. Detroit) — May 10, by R. H. Whitney, city mgr., constructing Storm Water Sewer 13, 7,975 ft. 10- to 48-in. vitr. and concrete pipe; Storm Sewer 14, 4,248 ft. 10- to 54-in. pipe; and Storm Sewer 15, 6,720 ft. 12- to 42-in. pipe, etc. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Ill., Niles—May 25, for sewerage system. $20,000. Consoer, Older & Quinlan, Inc., Marquette Bldg., 140 South Dearborn St., Chicago, consult. engrs.; adv. E. N.-R. May 6.

Ill., Savanna—See "Streets and Roads."

Minn., St. Paul—May 11 (extended date), by A. E. Eggert, city purch. agt., constructing Trout Brook Sewer, Contr. A, $600,000 and Highland Park Sewerage System, $175,000. G. M. Shepard, city engr. Noted Apr. 29.

Calif., Beverly Hills — May 17, by City Trustees, 25,774 lin.ft. 6- to 10-in. sewer, etc., in area south of Country Club Dr. and west of Beverly Dr. J. C. Albers, city engr.

Calif., Pasadena — May 18, by B. Chamberlain, city clk., sludge dryer for sewage disposal plant. W. C. Earle, city engr.

Bids Received

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, Apr. 28, from J. Jenning, Belle Harbor, sewer in Van Sicklen St., $19,732; from Tomassetti & Co., 1133 60th St., in Ft. Hamilton Parkway $15,370, and in East 26th St. $41,903; from Mannrill Constr. Co., 2035 Douglass St. in East 45th St., $24,279; from A. W. Matarazzo, 1162 61st St., in Ocean Ave. $53,806, 62nd St. $29,819, and Schenectady Ave. $22,223, from R. Nazzarro, 1150 62nd St., in East 18th St. $59,278; from S. Guerriero, in West 10th St. $25,423, and 53rd St. $24,539. Noted Apr. 22.

O., Cleveland—For 6,000 lin.ft. 8- to 36-in. sewer in Bway. and Brookpark Rds., Impvt. 75, Sect. B, from E. Cesa, 2462 Baldwin Rd., concrete $64,748; from W. McDowell & Son, 10319 Miles Ave., brick $66,635.

Wis., Antigo—G. C. Palmer, city clk., Apr. 21, 20 x 35 ft., concrete and steel sewage disposal plant, from Manitowoc Constr. Co., 826 South 8th St., Manitowoc, $92,585. Noted Mar. 25.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., Apr. 28, 2,319 ft. 5 ft. 6 in., 2,213 ft. 3 x 6 ft. and 2,325 ft. 2 x 3 ft. monolithic concrete storm sewer, tunnel, etc., in Loyd, 16th and Wright Sts., from J. Brogan & Sons, 211 Grand Ave., $186,756.

Tex., Corsicana—Extending 32,560 ft. 6- to 36-in. sewers in various streets, from Agar & Gentry, San Benito, approximately $28,000.

Contracts Awarded

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, to J. F. Cogan, Grand Central Terminal, relief sewer in 5th Ave., $615,245; to A. W. Matarazzo, Inc., 1163 61st St., sewers in East 9th St. $9,143, East 38th St. $4,238, West 4th St. $3,266, and 11th Ave. $1,700, to Mazzarro & Guerriero, 6712 11th Ave., East 8th St. $5,784, to Peconi Contg. Co., 578 18th St., 64th St. $2,141, and to R. Iovino, 678 Glenmore Ave., 20th St. $1,312. Grand total $642,829. Noted Apr. 22.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to J. G. Gallo, 30th and State Sts., Flushing, sewer in Riker Ave. $7,614; to Kennedy & Smith, 93 Bradford St., Flushing, in Hazen St. $219,980, in Polk Ave, $143,814, and 91st Ave. $36,010; to J. H. Johnson, 37 Brittan Ave., Elmhurst, Calamus Ave., $84,541; to Greenough Koppinger Co., Inc., Flushing, Pacific St. $3,581; to C. Pettrancca, 737 Kathleen Court, Brooklyn, 37th St. $37,997; to Welch Bros. Contg. Co., Queens St., Astoria, Leavitt St. $45,253. Grand total $578,680. Noted Apr. 29.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to Highway Impvt. & Repair Co., 50 Church St., New York City, sewers in Foch Blvd. $638,766, Springfield Blvd. $618,760, Hempstead Ave. $367,944, and Jamaica Ave. $944,680. Grand total $2,570,150. Noted Apr. 15.

N. J., Hasbrouck Heights (Ind. br. Hackensack) — Mayor and Boro Council, J. P. Breeze, clk., 29,000 lin.ft. 4 in. vitr. sewers, etc. between curb line and main sewers in various streets, to Lo Proto Constr. Co., 50 Main St., Lodi, $26,212. Noted Apr. 29.

N. J., Newark—T. L. Raymond, dir. Pub. Affairs, City Hall, Sect. 4, Waverly Sewers, 7,150 lin.ft. 10- to 36-in. rein.-con. pipe, etc., to Spinello Constr. Co., 393 Monroe St., Orange.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, main sewers in Aramingo Ave., to J. J. McHugh, 1617 Race St., $27,872; 8th St., to P. and A. J. Ellis, 48th and Wyoming Sts., $46,522; Gillespie and Mansfield Aves., to O'Neil Co., 127 East Mermaid Lane, $141,599 and $159,661 respectively. Grand total $375,654. Noted Apr. 15.

Fla., St. Augustine — See "Streets and Roads."

O., Bexley (Columbus P. O.) — S. W. Roderick, village clk., 9,000 ft. 8- to 12-in. vitr. sewers in Broad St., Stanwood Rd., alley north Broad St., and alley east Remington Rd., to H. M. Bright, 1554 Safford Ave., Columbus, $13,332; and 8,500 ft. 8- to 12-in. in Maryland Ave., alleys east Cassady Ave. and Ardmore Rd., and alleys north Ruhl and Bellwood Aves., to McHugh Bros., 275 Reinhard Ave., Columbus, $15,298. Noted Apr. 22.

O., Cleveland—Constructing 90 ft. 3 x 12 in. rein.-con. sewer in Bellaire Blvd., to E. Gedney, 905 Parkway Dr., $3,795; sewer in Carrowdale Ave., to Amata Constr. Co., 5910 Kinsman Rd., $17,963; 407 ft. 6 ft. 3 in. E and 600 ft. 5 ft. 3 in. C brick sewer in Quincy Ave., to Winterbottom & Connelly Constr. Co., 1406 West 25th St., $40,178; and 360 ft. 4 ft. 6 in. and 425 ft. 4 ft. brick sewer in West 58th St., to Janashak & Callow, 13606 Union Ave., $17,262. Grand total $79,198.

O., Upper Arlington (Columbus P. O.)—N. R. Copeland, village clk., 26,900 ft. 8 and 10 in. sewers, etc., in Baldridge, Suffolk, Tewsbury, Beverly, Wickford, Chatfield, Berkshire, Collingswood, Andover, Coventry, Henthorne, Parkway, Kent, York and Wilshore Rds., to Ames Bros., 135 Oakland Ave., Columbus, $39,870; also 6,130 ft 6- to 12-in. c.i. mains in 14 various streets, to A. F. Riley, 1220 Esper St., Columbus, $10,705. Noted Apr. 29.

Mich., Detroit—For 7,028 ft. 12- to 24-in. sewer in Lateral 4577, to Detroit Drainage Constr. Co., Meyers Ave., $39,500; also 13,719 ft. 12- to 15-in. vitr sewer in Lateral 4539, to W. Blanck Co., 40 Seven Mile Rd. E., $28,732.

Ill., Chicago—Bd. Local Impvts., City Hall, tile sewers, etc., in West 51st St. from South Robey St. to South Hoyne Ave., in Estes Ave. from point 110 ft. east to point 450 ft. west North Brockwell St., in Carmen Ave. from North Westenaw Ave. to North Rockwell St., in Oketa Ave. from Northwest Highway to Olmsted Ave. and to Ogallah Ave., in West 91st Pl. from South Paulina St. to Beverly Ave., in 104th Pl. from South Talman Ave. to South Rockwell St., and in West 92nd St. from South Marshfield to Beverly Aves., to G. F. Santry Co.; in South Green St. from West 104th to 105th Sts., and in Parnell Ave. from West 95th to West 99th Sts., to A. Ranieri, 4901 Altgood St.; in South Ashland Ave. from West 111th St. to alley south of West 110th St., to Mancini & Ventrella; in South Green St., from West 95th to West 98th Sts. and South Morgan St. from West 105th to West 107th Sts., to G. Barry, 5924 South Wabash Ave.; in Wallace St. from West 104th to West 107th Sts. to F. Peyrot, 4207 Marmore Ave.; in Avenue L from East 108th to East 106th Sts., and Avenue L from East 108th to East 110th Sts., to O. Scully, 7658 Laflin St. Noted Apr. 8.

Ill., Zion—For 2,700 ft. 24 in. rein.-con. and 49,350 ft. 8- to 15-in. vitr. clay sewers, etc. in various streets, to Zion Building Industry, R. M. Steel, mgr., Zion, $123,579. Engrs. est. $136,186. Noted Oct. 29.

Wis., Beloit—G. E. Heebink, engr., City Hall, 17,120 ft. 8- to 21-in. concrete or vitr. sewers, etc., in various streets, to Cooper & Hansen, Iowa Falls, Ia., $43,245. Noted Apr. 29.

Mo., Kansas City—For 5,390 ft. 10 in. vitr. clay and 6,520 ft. 12- to 48-in. concrete sewer, etc. in Dist. 521, Div. 6, to T. P. Thompson, 3908 Forest Ave., $66,727; also 8,290 ft. 8 and 10 in. vitr. clay and 5,960 ft. 12- to 39-in. concrete sewer, etc. in Dist. 461, Div. 5, to J. Spitcaufsky, 2452 Benton Blvd., $50,949.

Okla., Okemah—J. S. Price, city clk., 3 mi. lateral sewers in Lateral Dist. 2, to Park & Moran, 210 South Seminole St., Okmulgee, $28,085. Engrs. est. $29,000. Noted Apr. 8.

Calif., North Sacramento — For 62,700 lin.ft. 6- to 15-in. vitr. sewers, etc. in various streets, and sewage pumping plant, to United Concrete Pipe & Constr. Co., Merced, $89,994. Noted Apr. 22.

Waste Disposal

Proposed Work

Fla., West Palm Beach—Voted $15,000 bonds, incinerators. C. A. Bingham, city mgr.

Bids Desired

Ala., Mobile — June 3, by City Comrs., two 50 ton incinerators. G. E. Crawford, mayor; adv. E. N.-R. May 6.

Bridges

Proposed Work

Mass., Adams—Plans 3 new concrete and steel bridges on old sites, one on Spring St. $16,000, one on Fiske St. $4,000, and other Mill St. $10,000.

Mass., Boston—Dept. Pub. Wks., making plans 550 ft. and 100 ft. draw and 60 ft. girder span, concrete and steel, bridge, Fort Point Channel at Congress St. To exceed $25,000. J. McCarty, City Hall, engr.

Mass., Orleans—Orleans Associates, C. W. Carlton, trustee, plans concrete bridge over Pocket Inlet. $25,000. Engineer not selected.

Mass., Plymouth — See "Streets and Roads."

Conn., Saybrook—New York, New Haven & Hartford R.R., E. Gagel, ch. engr., New Haven, soon takes bids steel and concrete bridge, at Old Saybrook railroad crossing, here. $30,000.

New York and New Jersey—New York State Legislature appropriated $1,000,000 for 5 consecutive years constructing Hudson River Bridge from 178th St., New York City, to Ft. Lee, N. J., New Jersey also appropriated $5,000,000 toward cost. Total about $50,000,000 of which $40,000,000 will be raised through sale of bonds by Port of Authority.

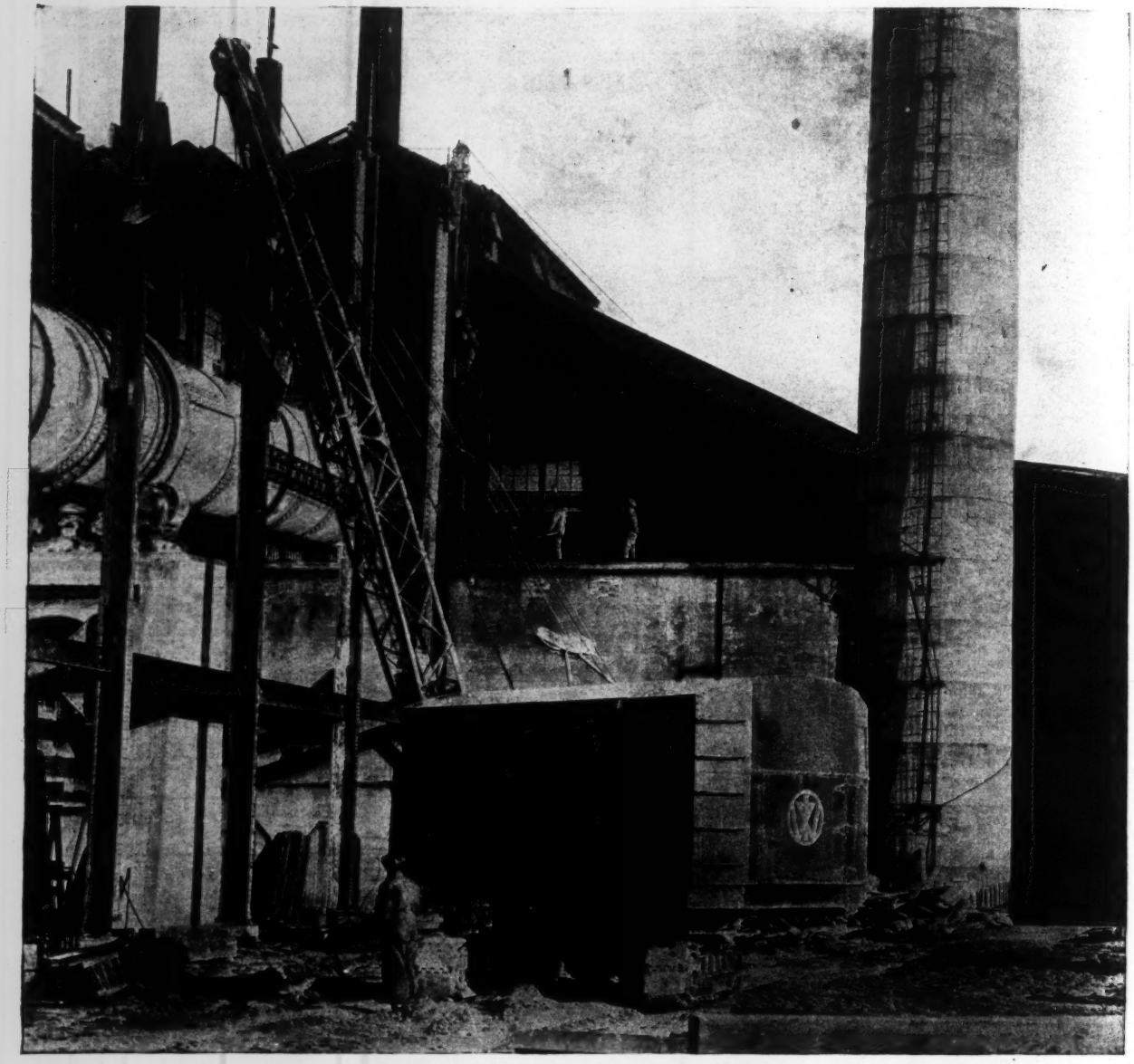
New York and New Jersey—New York and New Jersey appropriated $50,000 each for surveys, soundings, borings, etc., for construction Bayonne-Staten Island Bridge. Port New York Authority, 11 Bway., New York City, will construct same.

N. J., Clinton—State Hy. Comn., Trenton, plans bridge over Raritan River, here, Hunterdon Co. $75,000. W. G. Sloan, Trenton, highway engr.

West Virginia—State Hy. Comn., Charleston, plans bridge over Guyandat River at Percks Mill. E. B. Carskadon, highway comr.

Fla., West Palm Beach—Voted $100,000 bonds, 2 bridges. C. A. Bingham, city mgr.

Miss., Pascagoula—State Legislature authorized Jackson Co. to issue bonds for funds with which to construct bridge across Pascagoula River forming link in Old



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Bridges (Continued)

Spanish Trail. T. H. Emerson, U. S. Dist. engr., Mobile, Ala.

O., Massillon — Pennsylvania R.R. Co., Broad St. Sta., Phila., Pa., A. C. Shand, ch. engr., plans replacing present wooden bridge with steel and concrete bridge, South Erie St., here. $33,000.

O., Ravenna — Portage Co. plans steel and concrete overhead bridge over Pennsylvania R.R. tracks, south of Rootstown Sta. $64,755. State appropriated one half of cost.

Ill., Beardstown—Chicago, Burlington & Quincy R.R. Co., 547 West Jackson Blvd., Chicago, A. W. Newton, ch. engr., plans rebuilding 6 span bridge across Illinois River, here. $100,000.

Kan., Columbus—St. Louis & San Francisco R.R. Co., St. Louis, Mo., F. G. Jonah, ch. engr., made plans one 16 ft., six 24 ft. and one 48 ft. span concrete viaduct over railroad tracks, on Federal Aid Project 96-B, Cherokee Co., near here.

Mo., Vienna—State Hy. Dept., Jefferson City, plans bridge over Gasconade River, about 6 mi. southeast of here. B. H. Piepmeier, ch. engr.

Ark., Batesville—Batesville Bridge Impvt. Assn. and State Hy. Dept., Little Rock, take bids probably in June or July, concrete and steel bridge over White River. $303,549. R. C. Limerick, highway engr. Noted Feb. 18.

Ont., London — Middlesex Co. Council making plans and takes bids in May rein.-con. and steel bridges. $100,000. C. Talbot, County Bldg., engr.

Bids Desired

Vt., Arlington—May 12, by Town, Clerks Office, Town Hall, 1 span steel and concrete bridge, on site Old Water St. Bridge. $25,000. Private plans.

Mass., Somerville (Boston P. O.)—May 12, by Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, 1 span concrete bridge and retaining walls, near Medford St. $25,000. J. R. Rablin, c/o owner, engr.

N. Y., Poughkeepsie—May 19, by F. S. Greene, supt. Pub. Wks., Albany, 2 main river piers for Mid-Hudson Bridge, here, Contr. 3; adv. E. N.-R. May 6.

Pa., Coraopolis — May 12, by Controller Allegheny Co., Court House, Pittsburgh, transferring present 6th St. spans, Pittsburgh, and placing same over Ohio River, here. $500,000. County Dept. Pub. Wks., 519 Smithfield St., Pittsburgh, engrs.

Fla., Sebring—June 1, by City, rein.-con. arch bridge over South Arm of Lake Jackson. E. M. Clawson, city engr.; adv. E. N.-R. May 6.

La., New Orleans—May 18, by W. T. Hall, acting comr. Dept. Pub. Finance, City Hall, constructing Canal St. Viaduct between Front St. and Mississippi River, $16,000; and bridge over Outfall Canal, on Behrman Ave., Algiers, here, $10,000.

Ohio—May 14, by Dept. Highways & Pub. Wks., Columbus, constructing steel and concrete bridges in Monroe, Perry, Clermont, Logan, Meigs, Morgan and Sandusky Counties. $162,846. F. G. Schlesinger, highway engr.

Indiana—May 12, by J. D. Williams, dir. State Hy. Comn., Indianapolis, constructing five 84 ft. span bridge on Road 1-H, Bartholomew Co.; 20 ft. and two 30 ft. span bridge over Pennsylvania R.R. tracks, on Road 3-E, Clay Co.; 2 bridges, one 14 ft. span and other two 14 ft. spans, on Road 28-D, Daviess Co.; and 34 ft. span bridge and three 50 ft. span bridges on Road 33-B, Mountain Co.; 45 ft. span bridge, on Road 1-V, Fulton Co.; two 22 ft. spans on Road 7-K, and one 66 ft. and two 28 ft. span bridges, Road 11-G, both Huntington Co.; five 84 ft. span bridge, Road 1-1, Johnson Co.; two bridges one 38 ft. span and other two 26 ft. spans, Rd. 10-D, also 38 ft. span bridge over the Chicago & Eastern Illinois R.R. tracks, Road 10-F, Knox Co.; two 30 ft. span and one 38 ft. span bridges, Road 27-D, Kosciusko Co.; two 16 ft. span bridge, Road 28-A, and one 24 ft. span bridges, Road 28-B, Pike Co.; 30 ft. span bridge, Road 3-F, and 28 ft. bridge, Road 31-E, Putnam Co., etc.

Mich., Mt. Clemens—May 13, by W. W. Lavers, engr., Plymouth 50 ft. span steel deck girder bridge with 22 ft. roadway and 5 ft. sidewalk, also 1 span 35 ft. bridge with 22 ft. roadway across Deer Creek at southern limits of Armada, for Macomb Co.

Wisconsin—See "Streets and Roads."

Kan., Pratt—See "Streets and Roads."

Tex., Memphis—See "Streets and Roads."

Okla., Blackburn—May 10, by M. C. Cunningham, clk. Pawnee Co. (Pawnee), 6 new concrete piers under present steel bridge, here. $32,600. J. M. Page, Capitol Bldg., Oklahoma City, highway engr.

New Mexico — May 17, by office State Hy. Comn., Santa Fe, (**F. A. P. means Federal Aid Project**), constructing one 89 ft. steel and two 15 ft. approach spans, etc. over Salado Creek, F.A.P. 11-Reo, about 2 mi. east of Capitan, Lincoln Co.; nine 21 ft. creosoted timber spans, etc. over Santa Fe River, F.A.P. 88-C, Sandoval Co.; and 140 ft. steel span bridge over Farmington Glade, F.A.P. 147-A, San Juan Co. J. A. French, Santa Fe, highway engr.

Idaho, Kooskia—May 19, at office P. E. Oxley, dist. engr., 202 Pioneer Bldg., Lewiston, constructing three 180 ft. steel spans, etc., over Clearwater River on Lewis and Clark Highway, Federal Aid Project 83-A, here, Idaho Co., for State Hy. Dept., Boise.

California—May 24, by State Hy. Comn., Sacramento, five 54 ft. and eight 36 ft. 9 in. span, rein.-con. girder bridge, 40 ft. roadway, etc., over Santa Ana River, 2 mi. north of Santa Ana, Orange Co. R. M. Morton, Forum Bldg., Sacramento, engr.

Calif., Los Angeles — May 26, by Bd. Pub. Wks., 402 ft. rein.-con. girder bridge, 56 ft. roadway, etc. over Los Angeles River, on Fletcher Dr. M. Butler, City Hall, city bridge engr.

Que., Maskinonge—May 21, by J. A. A. Lemire, Maskinonge, 2 concrete and steel bridges over River Maskinonge. $45,000. I. E. Vallee, 67th St. Cyrille St., Quebec, engr.

Que., St. Pierre les Becquets—May 15, by I. E. Vallee, engr., 67 St. Cyrille St., Quebec, 3 span 250 ft. concrete and steel bridge, here, for Pub. Wks. Dept., Quebec. $65,000.

Bids Received

Maine—State Hy. Dept., Augusta, Apr. 21, constructing Baileys Island Bridges in Harpswell, from D. W. Carlton, Woolwich, $103,570; Hobart St. Bridge in Edmunds, from Burbee Constr. Co., Gardiner, $37,602; Handy Brook Bridge in Readville, from Town of Readville, $2,419; Mill Bridge in Stetson, from Smith & Tweedie, Westfield, $4,759 respectively; Toddy Pond Bridge in Orland and Woodman's Bridge in Searsmont, from Green & Wilson, Waterville, $4,752 and $10,964 respectively; Butler Bridge and Great Works Bridge in New Portland, from U. Netivier, Rumford, $9,315 and $9,972 respectively. Noted Apr. 15.

Mass., Bridgewater — Dept. Pub. Wks., Boston, Apr. 27, 600 ft. concrete bridge and bituminous macadam approaches, here, from Powers Bros., 161 Montello St., Brockton, $30,259. Noted Apr. 22.

Rhode Island — Office State Bd. Pub. Roads, State House, Providence, Apr. 28, State Bridge 143, from Curtis, Quillen & Co., 350 Westminster St., Providence, $3,500; Bridges 204 and 205, from F. T. McCarthy Co., Newton, Mass., $6,737; Bridges 206 and 207, from Engineering Serv. & Constr. Co., 220 Devonshire St., Boston, $16,839; and Bridge 213, from Kelleher Bros., Turners Falls, Mass., $3,424. Noted Apr. 15.

O., Cincinnati—See "Streets and Roads."

Tex., Baird—See "Streets and Roads."

Tex., Boston—See "Streets and Roads."

Tex., Sweetwater — See "Streets and Roads."

Contracts Awarded

Massachusetts—See "Streets and Roads."

Georgia—State Hy. Dept., East Point, bridge on Marietta-Carterville Rd., Federal Aid Project 413-B, Cobb Co., and 2 bridges on Columbus-Macon Rd., Federal Aid Project 445-A, Talbot Co., to Nicholas Constr. Co., 21 South Candler St., Atlanta, $6,514 and $8,613 respectively; 2 bridges over Puglis Creek and one over Big Creek, State Aid Project G-6-47, Laurens Co., to R. H. Holz, Atlanta, $37,447; and 4 bridges on Coastal Highway near Brunswick, Federal Aid Project 432-C, Glynn Co., to T. P. Wright, East Point, $203,688. Grand total $256,262. Noted Mar. 18.

Ohio—Dept. Hys. and Pub. Wks., Columbus, steel bridge over Big Racoon Creek, Sect. "K" McArthur-Athens Rd., Vinton Co., to Standard Eng. & Constr. Co., 2463 Bway., Toledo, $21,990; concrete slab bridge, Sect. "D" Zanesville, New Lexington Rd., Perry Co., to Glass Bros., Crooksville, $3,352; rein.-con. bridge over McConnel Run, on Sect. "McConnel Run Bridge" Marietta-McConnelsville Rd., and bridge over Perry Run, Sect. "Perry Run Bridge," same road, both Morgan Co., to I. J. Kuhner, Jackson, $11,390 and $8,690 respectively; concrete bridge on Sect. "K" Logan-Lancaster Rd., Hocking Co., to L. S. Gaty, 387 Linwood Ave., Columbus, $9,837, on Sect. "E" Cincinnati-Batavia Rd., Clermont Co., to C. H. Dunn, Mt. Orab, $3,771, bridge on Marietta-McConnelsville Rd., Washington Co., to H. Pattin, Beverly, $9,581, and 3 bridges on Sect. "B" Athens-Hockingport Rd., Athens Co., to F. H. Beckler, Athens, $12,990. Grand total $80,601. Noted Apr. 29.

Ill., Decatur — Wabash R.R. Co., Ry. Exch. Bldg., St. Louis, Mo., R. H. Howard, ch. engr., 1,062 ft. rein.-con. and steel double track railroad bridge with approaches over Sangammon River, here, to Carmichael-Cryder Co., Rialto Bldg., St. Louis, Mo. Engrs. est. $850,000.

Wis., Neenah—State Hy. Dept., Madison, constructing Fox River Bridge, here, to Wausau Iron Wks., 738 South 10th Ave., Wausau, for State and city. $137,848. Noted Apr. 15 under "Wisconsin."

Ia., Maquoketa — Jackson Co., 1 high truss bridge, to C. H. Anderson, Maquoketa, $21,328; and one pony truss bridge, to A. Olsno Constr. Co., Waterloo, $11,965. Noted Apr. 22.

Kan., Eldorado—Butler Co., rainbow arch bridge, on Federal Aid Project 239-D, Butler Co., to Western Bridge Co., Harrisonville, Mo., $34,767.

Kan., Seneca — Nemaha Co., Bridges 1 and 2, on Federal Aid Project 225-C, to Monarch Eng. Co., Falls City, Neb., $27,074. Noted Apr. 15.

Nebraska—State Hy. Dept., Lincoln, 360 ft. bridge and 1,500 ft. fill, Beelus, to Standard Bridge Co., 1302 City Natl. Bank Bldg., Omaha, engrs. est. $34,000; also seven 11 ft. span bridge, 2,000 ft. fill, etc., over North Platte River, Lewellen, Garden Co., to Western Bridge Co., 748 Peters Trust Bldg., Omaha, engrs. est. $71,000.

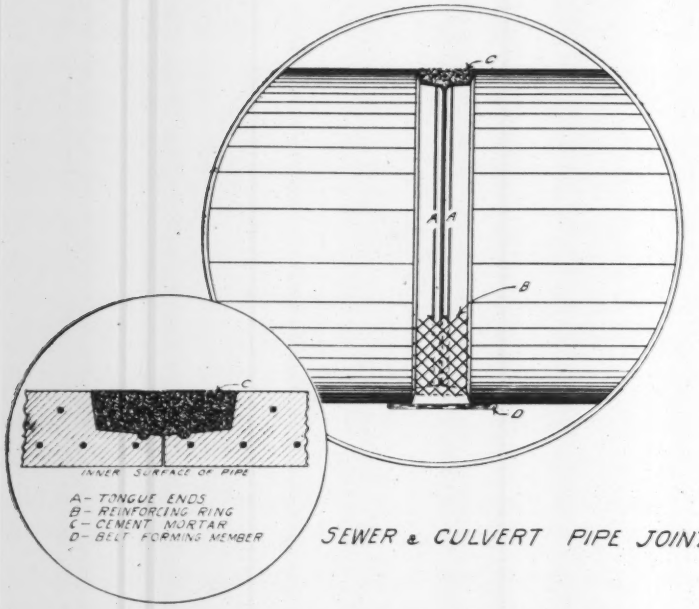
Missouri—State Hy. Dept., Jefferson City, to F. Kersting, Jefferson City, two 10 ft. rein.-con. slab spans, etc., over Koolin Branch, Iron Co. $2,563; to Hannibal Constr. Co., Hannibal, two 20 ft. rein.-con. slab spans, etc., over stream $2,406, and 40 ft. rein.-con. deck girder span, etc., over stream $3,944, both in Lewis Co.; to J. M. Roark & Sons, Anderson, 20 ft. rein.-con. slab span, etc., over South Fork Deer Creek $2,726, 30 ft. rein.-con. deck girder span, etc., over North Fork Deer Creek $3,143, 40 ft. rein.-con. deck girder span, etc., over Mackafish Bridge $7,423, two 30 ft. rein.-con. deck and 60 ft. steel truss span, etc., over Morman Fork, $12,638, all in Bates Co.; to Maney Bros. & Co., Oklahoma City, Okla., two 12 ft. rein.-con. slab spans, etc., over stream $2,796, and two 45 ft. rein.-con. deck girder spans, etc., over Wild Cat Creek $6,956, both in Douglas Co.; to Winstead & Gunter, Siloam Springs, Ark., two 10 ft. and two 12 ft. rein.-con. slab spans, etc., over stream, Bates Co., $5,197; to J. R. Burner, Oblong, Ill., two 12 ft. rein.-con. slab and two 30 ft. rein.-con. deck girder spans, etc., over stream $6,393, and one 30 ft. rein.-con. deck girder span, etc., over Wellard Branch $2,480, both in Polk Co.; to Carte-Harlin Constr. Co., West Plains, three 30 ft. rein.-con. deck girder spans, etc., over Beeler Creek, Texas Co., $5,820; to W. P. McGeorge & Co., Pine Bluff, Ark., two 12 ft. rein.-con. slab spans, etc., over McKinney Branch $5,059, 20 ft. rein.-con. span, etc., over Smith Branch $3,441, and 45 ft. rein.-con. deck girder span, etc., over Richland Creek $6,914, all in Callaway Co.; to A. P. Poirot, Belleville, Ill., three 100 ft. rein.-con. open spandrel arch spans, etc., over Soc River, Greene Co. $26,012; to A. W. Mosley, 2006 East 40th St., Kansas City, 80 ft. steel truss and two 35 ft. I-beam spans over Blackwater River $12,755, also 80 ft. steel truss and four 35 ft. I-beam spans, etc., over Blackwater D. D. $20,281, both in Johnson Co.; to Du Bois & Co., Pittsburg, Kan., three 80 ft. steel truss spans, etc., over North Fork Spring River, Barton Co., $24,590; to L. W. Spengler, 6015 Forest St., Kansas City, two 80 ft. steel truss spans, etc., over Petite Saline Creek, Cooper Co., $22,121; and to M. E. Gillioz, Monett, 160 ft. steel truss and four 40 ft. rein.-con. deck girder spans, etc., over James River $28,198, also three 24 ft. rein.-con. slab spans, etc., over Green Valley $4,309, both in Christian Co. Grand total $218,164. Noted Apr. 1.

Ark., Osceola—Comrs. Sub-Dist. 3 of D. D. 9, Mississippi Co., 17 small pile bridges and 1 concrete culvert, also removing and resetting 5 small bridges, to C. A. Tant Constr. Co., Portageville, Mo., $34,200; Comrs. Sub. Dist. 1 of D. D. 8, Mississippi Co., 2,000 ft. plain trestle and truss span wooden bridges, to L. Nailling, Osceola, $27,500. Noted Mar. 25.

Tex., Brownsville — See "Streets and Roads."

Tex., Huntsville — See "Streets and Roads."

Wash., Longview—City Comrs., constructing 240 ft. through and 166 ft. deck steel



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The process of manufacturing Nichols Concrete Pipe for sewers and highway culverts is identical with that used in making Nichols Pressure Pipe, with slight changes in specifications due to different requirements. The superior quality of concrete, the accurate placement and embedment of reinforcing and the smooth, trowelled inner surface combined with a simple, efficient, dependable joint comprise virtues that are important in any pipe intended for sewers.

Nichols Concrete Pipe for sewers and highway culverts are economically made in small or large volume in licensed plants. Write for complete details regarding territory not yet placed under license.

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8100 E. Jefferson Ave., Detroit, Mich.

Bridges (Continued)

bridge, etc., over Cowlitz River, to Pacific Bridge Co., East Salmon St., Portland, Ore., $278,516. Engrs. est. $300,000.

Dams

Proposed Work

Ala., Muscle Shoals—See "Buildings—Industrial."

Tennessee — Southern Cities Power Co., Chattanooga, plans concrete hydro-electric dam across Duck River, near Columbia, Maury Co. and one near Lewisburg, Marshall Co.; also transmission lines in several communities near Columbia and Lewisburg.

Contracts Awarded

Conn., Norwich—Bd. Water Comrs., dam, to L. Petrossi, 39 Woodbridge St., Hartford, $154,420; 4 mi. mains in various streets, to H. W. Golden & Sons, Inc., Troy, N. Y.; and 3 mi. mains in various streets, to A. W. Byrne & Son, Hartford. Noted Apr. 15.

Railways

Proposed Work

Michigan—See "Unclassified under Fordson, Mich."

Bids Desired

Michigan—See "Contracts Awarded."

Contracts Awarded

Michigan — Detroit United Ry., 3rd and Labelle Aves., Highland Park, will construct double track on West Jefferson Ave. in Ecorse, by day labor. $64,000.

Missouri—Wabash R.R. Co., Ry. Exch. Bldg., St. Louis, constructing 8.5 mi. single track between Griggsville and Ballis, Ill., and 6 mi. Rennick to Moberly, Mo. 10 mi. single track rock ballasting between Aetna and Crocker, Ind., and 12.6 mi. between Carrollton and Kansas City, Mo., 23 mi. burnt clay ballasting between Moberly and Salisbury, Mo., 10 mi. double track between Poag and Worden, Ill., 28 mi. double track ballasting between Sibley and Mansfield, Ill., also 3 mi. double track reballasting between Litchfield and Honeybend, Ill., to Industrial Track Constr. Co., Title Guaranty Bldg., St. Louis. Engrs. est. $490,000. Noted Jan. 21.

California—Western Pacific R.R., Mills Bldg., San Francisco, trackage in Industrial Dist. south of Market St., to Eaton & Smith, 715 Ocean Ave., San Francisco, approximately $200,000 or more.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Mass., Boston—Commonwealth of Massachusetts plans widening Charles River to not less than 300 ft. in vicinity Cottage Farm Bridge. $200,000. J. R. Rablin, Metropolitan Dist. Comn., 1 Ashburton Pl., engr.

Fla., West Palm Beach—Voted $150,000 bonds, constructing seawall. C. A. Bingham, city mgr.

Mississippi — Hancock Co. Sea Wall Comrs. appointed J. W. Billingsley, consult. engr., Interstate Bldg,, New Orleans, La., to prepare plans and specifications sea wall along western front Bay St. Louis and Waveland.

La., Mandeville — See "Streets and Roads."

Ill., Chicago—Ordinance to be submitted to City Council straightening Chicago River between Polk and 16th Sts., the cut-off ¾ mi. long, 200 ft. wide and 22 ft. deep, will permit opening to the South of Dearborn, La Salle, Market and Dearborn Sts. The railroads involved and sharing expenses, are: Baltimore & Ohio R.R. Co., $3,000,950, Chicago, Rock Island & Pacific and New York Central R.R. Companies, $2,836,630, Chicago, Rock Island & Pacific (individually), $796,600, Pennsylvania Lines, $783,500 and Chicago & Northwestern Indiana, $83,300. City will pay $1,689,946 towards cost. E. J. Noonan, 140 North Dearborn St., city engr.

California—Interests represented by E. A. Julian, engr., Crocker Bldg., San Francisco, making plans irrigation works incl. 7 mi. main ditch, 73,720 ft. 15 x 6 x 3 ft. canals, storage dam 70 ft. high, 480 ft. long on top, 150 ft. on bottom, etc., on Long Valley Creek, Lassen Co. To exceed $175,000.

Calif., La Mesa—La Mesa, Lemon Grove & Spring Valley Irrigation Dist., made plans 7,000 lin.ft. 42 in. steel pipe, ¼ in. plate, 5,000 lin.ft. wood stave pipe for construction in Quail Canyon Syphon. T. H. King, 121 South Spring St., La Mesa, engr.

Calif., Ojai—Ojai Irrigation Dist. making plans 8,330 f.t 5 x 7 ft., and 4,700 ft. 5 x 7 ft. tunnels, 5,500 ft. 20- to 28-in. diam. steel penstock, 30,800 acre ft. capacity storage reservoir, 180 ft. high, 690 ft. long on top, 150 ft. on bottom, etc. $2,000,000 or more. J. B. Lipponcott, Petroleum Securities Bldg., Los Angeles, engr.

Calif., Oroville — Thermalito Irrigation Dist. voted $50,000 bonds, extending distributing system.

Calif., Placerville—El Dorado Irrigation Dist. plans election $1,500,000 bonds, reservoirs, concrete canals, etc., for irrigation project. J. Spink, Forum Bldg., Sacramento, engr. Noted Dec. 24.

Mexico — Mexican Government, Mexico City, making preliminary plans levee system and flood work along Rio Grande River and along lakes below Hidalgo, Tex., extending to Arroyo del Tigre and the Gulf, etc. $1,000,000. J. Lewis, et al, San Benito, Tex., engrs.

Bids Desired

Miss., Vicksburg—May 12, at office Third Mississippi River Dist., 6,747,000 cu.yd. levee work in quantities varying from 20,000 to 1,250,000 cu.yd.

Wisconsin — May 8, in Circuit Court Room, Court House, Racine, excavating approximately 59,000 cu.yd. in Mt. Pleasant and Somers D. D. between Racine and Kenosha Counties. J. J. Degen, Burlington, engr. Noted Oct. 8.

Ia., Onawa—May 11, at office Auditor Monona Co., constructing Oliver Lake D. D., 201,623 cu.yd. excav., 2,808 ft. 18- to 36-in. corrugated pipe (furnished and placed), 1 headwall and hand operated gate, etc. Noted Mar. 18.

Ia., Sioux City—May 18, at office Auditor Woodbury Co., improving Moville-Climbing Hill Rd., 80,748 cu.yd. earth excav., 28,612 cu.yd. channel change, and 28,231 sta.yd. overhaul.

Tex., Brownsville—May 15, at office J. J. Bishop, aud. Cameron Co., constructing Flood Control Works on Units 1 to 11 (inclusive) of Div. C, 1,314,000 cu.yd. levee and 35,000 cu.yd. common embankment, 136,000 cu.yd. earth excav., 34,000 cu.yd. spur levees, and pile trestle bridge, etc. W. O. Washington, Brownsville, co. engr. Noted Apr. 8.

Ont., Goderich — May 11, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, dredging in harbor, here, 71,216 cu.yd. sand, gravel, clay and silt, also 3,300 cu.yd. solid rock excav. $55,000. K. M. Cameron, Dept. Pub. Wks., Ottawa, engr.

Bids Received

N. Y., Fire Island (mail Babylon)—Long Island State Park Comn., 302 Bway., New York City, Apr. 29, 125 x 125 ft. boat basin at Fire Island State Park, Suffolk Co., here, from A. M. Hazell, 26 Cortlandt St., New York City, $22,000. Noted Apr. 15.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., Apr. 20, dredging approximately 115,000 cu.yd. rivers and canals, from Great Lakes Dredge & Dock Co., 216 West Water St., $0.425 per cu.yd. Noted Apr. 15.

Calif., Montague — R. E. Swigart, secy. Montague Irrigation Dist., Apr. 16, Shasta River dam and appurtenant structures, Schedule 1, from Nevada Contg. Co., Fallon, Nev., $353,100; main canal, Schedule 2, from C. R. Adams, Colfax, Calif., $113,800; laterals A North, A South, B, C and Montague, Schedule 3, from Haas, Doughty & Jones, Merchants Exch. Bldg., San Francisco, $35,540; and pumping plant, Schedule 4, from C. and G. K. Thompson, Brockman Bldg., Los Angeles, $19,957. Noted Apr. 8.

Calif., Oroville — Thermalito Irrigation Dist., 36,865 lin.ft. riveted slip-joint pipe with fittings, from Western Pipe & Steel Co., 444 Market St., San Francisco, Armco pipe $23,172, and copper bearing pipe $21,976. Noted Feb. 18.

Contracts Awarded

New York—T. F. Farrell, comr. Canals & Waterways, 55 Lancaster St., Albany, bank protection along Erie Canal from Vischer Ferry to point 1 mi. east of Frankfort, Erie Canal, Sects. 1, 2, 3 and 4, Contr. 232, to Dunbar & Sullivan, 2312 Buhl Bldg., Detroit, Mich., $109,252. Noted Apr. 1.

Louisiana — State Hy. Dept., Baton Rouge, constructing muck ditch and embankment on portion of New Orleans-Hammond-Lake Shore Highway, St. Charles Parish, to United Dredging Co., Guaranty Bldg., Galveston, Tex., $590,115.

Streets and Roads

Proposed Work

Mass., Adams — Plans improving and paving Spring St. from Dean to Summer Sts., also widening Crandall St. $35,000. Address Town Engineer.

Mass., Dorchester (Boston P. O.)—Dept. Pub. Wks., Boston, plans laying out and constructing Courtland Rd., Hollingsworth and Norwell Sts. as highway, here. $25,000. J. H. Sullivan, comr.

Mass., Medford — Plans constructing 12 new streets. $75,000 appropriated. Engineer not selected.

Mass., Plymouth — Plans reconstructing roads and bridges. $40,000 appropriated. Bd. Selectmen, engr.

Mass., West Roxbury (sta. Boston) — Dept. Pub. Wks., Boston, plans laying out and constructing Dudley Ave. and Walworth St. as highway, here. $25,000. J. H. Sullivan, comr.

New Jersey—State Hy. Comn., Trenton, plans concrete paving 1.783 mi. Route 3, Sect. 14, in Absecon, Atlantic Co., $225,000; 5.6 mi. Hackensack-Rutherford Rd., Route 17, Sect. 1, Bergen Co., $300,000; and Singac Rd., Route 12, Sect. 8, Essex and Passaic Counties, $100,000. W. G. Sloan, Trenton, highway engr.

Pa., Monongahela—City Council making plans concrete paving Grant, Jones and Chess Sts. $27,500. M. Borland, Monongahela, engr.

Pa., Sharon — Soon takes bids repaving State St. between South Irvine St. and Erie R.R. switch. $110,000-$114,000.

N. C., Durham — Alamance Insurance & Real Estate Co. of Burlington, plans bituminous paving 5 mi. various streets, here. W. E. Sharpe, Burlington, mgr.

Ga., Atlanta—Plans paving 9 mi. North Side Dr., underpass beneath Southern R.R. tracks, and bridge across Peach Tree Creek. $500,000.

Ga., Columbus — Muskogee Co. making plans sheet asphalt paving 4 mi. various roads. C. L. Rhodes, Columbus, co. engr.

Fla., Kissimmee—Osceola Co. voted $275,000 bonds, constructing Kissimmee-Melbourne Rd.; $66,000 bonds, 3 mi. St. Cloud-Hickory Tree Rd.; $814,000 bonds, 37 mi. New Eden, Lake Myrtle and Kennansville Rds.; $99,000 bonds, 4½ mi. Partin Settlement Rd.; $88,000 bonds, 4 mi. Hilliard Island Rd.; $88,000 bonds, 4 mi. Narcoossee Rd.; $220,000 bonds, 10 mi. Lake Wilson Rd.; $220,000 bonds, 10 mi. Pleasant Hill Rd.; $176,000 bonds, 8 mi. Kissimmee-Park Rd.; and $44,000 bonds, 2 mi. Pine Island Rd. Noted Nov. 19.

Fla., Waldo — Election May 11, $15,000 bonds, constructing various streets. E. W. Millican, mayor.

Fla., West Palm Beach—Voted $150,000 bonds, sidewalks on various streets. C. A. Bingham, city mgr.

Fla., West Palm Beach—Voted $150,000 bonds, paving, etc. various streets. C. A. Bingham, city mgr.

Fla., West Palm Beach — Voted $50,000 bonds, paving Tamarind extension. C. A. Bingham, city mgr.

La., Mandeville—Voted $55,000 bonds, of which $25,000 hardsurfacing various streets, $20,000 repairing sea wall, and $10,000 harbor improvements. J. F. Coleman Eng. Co., Hibernia Bank Bldg., New Orleans, city engr.

La., Ringgold — Voted $100,000 bonds, grading and graveling Roads 90 and 13.

Tenn., Erin—Houstin Co. election May 5, $150,000 bonds, improving roads.

Tenn., Greenville—Greene Co. and State Dept. Highways & Pub. Wks., Nashville, appropriated $15,000 each, improving Lonesome Pine Trail Highway. C. N. Bass, highway comr.

Tenn., Huntington — Carroll Co. plans improving 12 mi. Huntingdon-Henderson-Chester Co. line Rd. $50,000. Noted Apr. 22.

Tenn., Lawrenceburg—Lawrence Co. and State Dept. Highways & Pub. Wks., Nashville, making surveys improving 10 mi. Lawrenceburg-Rockdale Rd. To exceed $25,000. Work will be under supervision of State Hy. Dept. C. N. Bass, comr.

Tenn., Rogersville—Hawkins Co. plans improving 15 mi. Clinch Mountain-Hancock Co. line Rd. $25,000.

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Streets and Roads (Continued)

Ky., **Cynthiana** — Harrison Co. election May 22, $150,000 bonds, improving various roads.

Ky., **Henderson**—Plans probably asphalt paving various streets. S. H. Kemmel, city engr.

Ind., **Anderson**—Madison Co. made plans concrete paving, etc., 2 mi. Old Pendleton Pike north of Pendleton, $40,000; and 2¼ mi. Pendleton Pike from Pendleton to Road 13, $48,000, both 18 ft. wide. M. A. Steele, Anderson, engr.

Mich., **Ecorse** (mail Detroit)—Village, C. A. Moore, pres., plans paving between railroad tracks on West Jefferson Ave. $100,000.

Ind., **Evansville**—Making estimates and surveys grading, curbing, asphalt, concrete, brick or asphaltic concrete paving, etc., 16th St., Huston and Cleveland Aves. H. Mades, mayor.

Mich., **Fordson** — Making plans curbing and 8 in. concrete paving 400,000 sq.yd. 50 streets. $1,600,000. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, consult. engrs.

Mich., **Fordson**—Made plans curbing and 8 in. concrete paving 10,776 sq.yd. Assessment Dist. 108, 8,622 sq.yd. Dist. 109, 16,546 sq.yd. Dist. 110, 11,409 sq.yd. Dist. 111, 8,600 sq.yd. Dist. 112, and 5,176 sq.yd. Dist. 113. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Mich., **Muskegon**—Making plans grading and concrete paving 1 mi. streets in Bronson Park-Lake Michigan Park. $25,000. H. J. Lewis, City Hall, engr.

Ill., **Decatur**—Plans grading, curbing and asphalt paving 8 blocks West Main St., 40 ft. $79,093. M. P. O'Brien, City Hall, engr.

Ill., **Decatur**—Plans grading, curbing and asphalt paving 7 blocks Riverside Ave., South Franklin, West William, and Oakcrest Sts., $46,000, also 8 blocks East Leafland Ave., 28 ft., $58,558. M. P. O'Brien, City Hall, engr.

Ill., **De Soto**—Jackson Co. voted $25,000 bonds, hardsurfacing 5 mi. De Soto-Hurst Rd., 18 ft., in De Soto Twp. Engineer not selected.

Ill., **Galesburg**—H. M. Roy, supt. Highways Knox Co., Court House, rejected bids Apr. 17, grading 20,000 cu.yd. State Aid Road, Routes 12 and 26. Will readvertise.

Ill., **Graysville**—White Co. plans election $59,000 bonds, grading and gravel surfacing roads in Gray, Phillips and Burnt Prairie Twps.

Ill., **Huntley**—Making plans concrete paving various streets. Wells Eng. Co., Geneva, engrs.

Ill., **McHenry**—Making preliminary plans grading, curbing and concrete paving 8,000 sq.yd. Washington St. and Waukegan Rd. $30,000. Wells Eng. Co., Geneva, engr.

Ill., **Rockford** — Plans grading, curbing and concrete paving 8 blocks 15th Ave., 30 ft. $41,050. B. C. Harvey, City Hall, engr

Ill., **St. Charles** — Making preliminary plans grading, curbing and concrete paving 40,000 sq.yd. streets in South End Dist. Wells Eng. Co,. Geneva, engrs.

Ill., **Stockland**—Iroquois Co. voted $80,000 bonds grading, curbing and concrete paving 9 mi. roads, 9 ft., in Stockland Twp. B. Jordon, Court House, engr.

Wis., **Oconomowoc**—Bd. Pub. Wks., M. E. Keats, city clk., recalled bids to have been opened Apr. 17, concrete paving 8,500 sq.yd. various streets. Will readvertise. To exceed $25,000. J. A. Stemper, City Hall, engr. Noted Apr. 1.

Kan., **Eldorado**—Butler Co. made plans grading, etc., 6.84 mi. Federal Aid Project 205, Sect. G, 28 ft. E. S. Elcock, Eldorado, co. engr.

Kan., **Ft. Scott** — Bourbon Co. making plans bituminous macadam or brick surfacing 3.501 mi. Federal Aid Project 336-A, 18 ft. H. McCulery, Ft. Scott, engr.

Kan., **Salina** — Saline Co. made plans grading, etc., 13.009 mi. Federal Aid Project 196, Sects. B and C, 30 ft. W. H. Cost, Salina, co. engr.

Kan., **Wichita** — Sedgwick Co. making plans concrete surfacing 5.055 mi. Mt. Hope Rd., Federal Aid Project 342-A, 18 ft. M. Roseberry, Court House, engr.

Neb., **Holdridge**—Making plans and takes bids about June 15, rein.-con. paving, etc., various streets. $35,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Missouri — State Hy. Comn., Jefferson City, making plans grading 47.6 mi. roads in Franklin, Jasper, Lincoln, Randolph, St. Francois, and Vernon Counties; 30 ft. grading 19.9 mi. roads in Carroll, Cass and Macon Counties; 18 ft. gravel surfacing 9.5 mi. roads in Cole and Montgomery Counties; 9 ft. concrete paving 8.5 mi. roads in Randolph Co.; and 18 ft. concrete paving 32.1 mi. roads in Franklin, Jasper, Lincoln, St. Francois and Vernon Counties. B. H. Piepmeier, ch. engr.

Mo., **Joplin**—See "Unclassified."

Mo., **Plattsburg** — Making preliminary plans paving various streets. To exceed $25,000. J. W. Shikles & Co., 708 New York Life Bldg., Kansas City, engrs.

Mo., **St. Louis**—Making preliminary plans asphalt or Warrenite resurfacing 9,915 ft. (2 units) Lindell Ave., 50 ft. $194,000. F. W. Pape, Municipal Bldg., comr. Parks.

Mo., **University** (br. St. Louis)—Making preliminary plans grading, hardsurfacing, etc. Delmar St. between Trinity and Hanley Sts.; Ferguson St. between Olive and Stanley Sts., and Etzel St. between Sutter and Pennsylvania Sts. $175,000. W. A. Heimbuecher, City Hall, engrs.

Arkansas—State Hy. Dept., Little Rock, made plans and soon takes bids gravel surfacing 12 mi. Collins-Dermott Rd., Drew and Chicot Counties; 10 mi. Lewisville-Hemstead Co. Line Rd., Lafayette Co.; 4 mi. road from Hughes south to county line, Lee Co.; and 12 mi. Strong-Huttig Rd., Union Co. R. C. Limerick, ch. engr.

Ark., **Marianna** — Lee Co. making preliminary plans grading and hardsurfacing 4 mi. Aubrey-Marianna-Moro Highway, 18 ft. W. W. Wood, co. judge.

Ark., **Search**—Making preliminary plans grading, curbing and hardsurfacing 75,000 sq.yd. various streets in downtown section Paving Dist. 6, $200,000. J. B. Lightle, et al, comr. of dist. Engineer not selected.

Tex., **Bellville**—Austin Co. making plans asphalt on gravel and waterbound macadam paving 9.16 mi. Highway 36, Rosenberg-Bellville Rd., 18 ft. $170,000. H. Schroeter, Bellville, co. engr.

Tex., **Galveston** — Galveston Co. made plans grading, rein.-con. paving, etc. 5.003 mi. State Highway 6, Federal Aid Project 466-G, 18 ft. $226,392. C. C. Washington, Galveston, co. engr.

Tex., **Galveston**—Galveston Co. making plans grading, rein.-con. paving, etc., 3.31 mi. Highway 6, 26 ft., $150,000; also 4.84 mi. same road point 1.7 mi. north of La Marque to point 1.5 mi. south of Dickenson, 20 ft., $196,000. C. C. Washington, Galveston, co. engr.

Tex., **Georgetown** — Williamson Co. making plans sledged stone paving 6.01 mi. Highway 2-B, Federal Aid Project 427-B, Unit 2, 18 ft. $40,000. M. C. Welborn, Georgetown, co. engr.

Tex., **Gonzales**—Gonzales Co. made plans 4 in. compacted waterbound macadam with 1 in. rock asphalt surface treated on 5 in. compacted sledged stone paving 8.08 mi. Highway 81, Federal Aid Project 440-D, Unitz, 18 ft. $157,750. J. T. Irby, Gonzales, co. engr.

Tex., **Jefferson**—Marion Co. made plans bituminous macadam on 8 in. iron ore top soil paving 7.57 mi. Highway 8, Federal Aid Project 306-C, Unit 2, $91,200; also 3.56 mi. same road Federal Aid Project 306-A, Unit 2, $52,408, both 18 ft. T. B. Warden, Jefferson, co. engr.

Tex., **Karnes City**—Karnes Co. takes bids after May 1, limestone rock asphalt on waterbound macadam paving 9.07 mi. Highway 12-A, Unit 2. $150,000. O. N. Powell, Karnes City, engr. Noted Apr. 22.

Tex., **Sinton**—San Patricio Co. takes bids after Apr. 28, shell concrete paving 2.9 mi. Highway 16. $30,000. F. M. Percival, Sinton, engr. Noted Apr. 22.

Tex., **Sweetwater** — Takes bids after May 10, hard paving 21 blocks various streets. $175,000. H. H. Batjer, Sweetwater, engr.

Okla., **Guthrie**—Making preliminary plans grading and concrete paving 7,860 sq.yd. Walnut St. and 5 alleys, $27,910. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., **Holdenville** — Plans grading and concrete paving 9,070 sq.yd. North Main St. $27,600. C. H. Edge, Holdenville, engr.

Okla., **Muldrow** — Plans concrete paving 9,400 yd. various streets. $30,000. Engineer not selected.

Okla., **Pawnee**—Pawnee Co. election May 18, $400,000 bonds, improving 60 mi. various roads, 30 ft. J. M. Page, Capitol Bldg., Oklahoma City, engr. Noted Nov. 26.

Okla., **Vinita**—Making preliminary plans resurfacing 21 blocks business section, 30-66 ft. $42,000. G. Patton, mayor. Engineer not announced.

Wash., **Seattle**—Bd. Pub. Wks. rejected bids Apr. 16, grading, etc., Lakeside Ave. S. et al. Will readvertise. J. D. Blackwell, Seattle, engr.

Wash., **Yakima**—Takes bids about May 18, paving North 6th St. E., between Yakima Ave. and East E St. $64,156. C. E. Wilson, Yakima, engr.

Calif., **Beverly Hills**—Made plans, guttering, walks, grading, 2 mi. Warrenite on 6 in. concrete paving, etc., 668,000 sq.ft. Wilshire Blvd. A. Matthews, city engr.

Calif., **Concord** — Made plans improving Park St., Mt. Diablo Ave., etc., 89,255 sq.ft. grading, 56,855 sq.ft. 6 in. concrete paving, 28,800 sq.ft. asphaltic macadam paving, 4,533 lin.ft. curbing, 3,600 ft. guttering. R. L. Calfee, 222 South 22nd St., Richmond, engr.

Calif., **Corona** — Making plans curbing, guttering, sidewalks and oil macadam paving portions 9th and Vicentia Sts. $50,000 or more. Currie Eng. Co., Stoneman Bldg., Alhambra, engrs.

Calif., **Hollister**—San Benito Co. making plans paving portions roadways in Rd. Dists. 1 to 4 (inclusive). To exceed $25,000. W. A. Winn, Hollister, co. surv.

Calif., **Los Angeles**—Bd. Pub. Wks., takes bids about May 21, curbing, guttering, sidewalks, sheet asphalt and asphalt macadam paving 41st Pl., Manchester and Roble Aves., Grand View, Allessandro, Alcott and Rossana Sts., etc. To exceed $50,000. J. C. Shaw, City Hall, engr.

Calif., **Los Angeles**—Bd. Supervs. Los Angeles Co. takes bids about May 26, improving Crockett Blvd., 3,066 lin.ft. curbing, 14,634 lin.ft. guttering, 14,972 lin.ft. sidewalk, 5,106 cu.yd. earth excav., 3,793 sq.ft. oil and screenings, etc. $33,291. G. Jones, Hall of Records, engr.

Calif., **Oakland** — Made plans grading, curbing, guttering and 2 in. Warrenite bitulithic on 6 in. concrete paving, 37,649 sq.ft. 26th St. W. W. Harmon, city engr.

Calif., **Oroville**—Butte Co. making plans constructing roadway from Las Plumas to Bucks Creek. To exceed $50,000. H. H. Hume, Oroville, co. surv.

Calif., **San Francisco** — Making plans grading, curbing, paving, etc. extending Market St. $100,000. M. M. O'Shaughnessy, city engr.

Calif., **Salinas** — Made plans improving Clay, Auburn, Riker Sts., etc., 181,000 sq. ft. grading, 7,868 lin.ft. concrete guttering, 51,675 sq.ft. 5 in. and 100,668 sq.ft. 4 in. concrete paving, etc. H. F. Cozzens, city engr. Noted Oct. 29.

Calif., **Santa Cruz**—Santa Cruz making plans constructing 4 mi. roadway from Happy Valley to Branciforte Dr., and 1 mi. Holohan Rd. To exceed $25,000. L. Bowman, Santa Cruz, co. surv.

Calif., **Sebastopol**—Made plans 2 in. Willite asphaltic concrete surfacing 13,200 Vine St.; and 3 in. Willite asphaltic concrete surfacing, etc., 30,000 sq.ft. Pitt Ave. C. E. Mueller, city engr.

Ont., **Forest**—Plans concrete paving Main St. $35,000. McCallum, County Bldgs., Sarina, engr.

Ont., **Guelph**—City Council plans 20 ft. concrete paving Elora Rd. $35,000. E. Nicklin, City Hall, engr.

Ont., **Ridgetown**—Plans concrete paving Erie St. $35,000. W. D. Colby, Harrison Hall, Chatham, engr.

Ont., **Toronto**—Plans concrete sidewalks on 2 mi. several streets. $10,398; and bitulithic on concrete paving Scarboro Beach Blvd., $27,557. R. C. Harris, City Hall, engr.

Ont., **Welland** — Plans cement paving North Main St. $33,000. C. H. Coulson, City Hall, engr.

Que., **Shawinigan Falls**—Made plans levelling and making cut through mountain for 4th St. $250,000. A. E. Belisle & H. Valiquest, Shawinigan Falls, engrs.

Cuba—Plans constructing 750 mi. Cuban Central Highway.

Bids Desired

New Hampshire—May 11, by State Hy. Dept., Concord, gravel surfacing 0.94 mi. highway in Andover. F. E. Everett, comr.

New Hampshire—May 11, by State Hy. Dept., Concord, asphalt paving 0.7 mi. highway in Boscarven, 0.51 mi. in Hampton, and 0.94 mi. in Pembroke, gravel surfacing 0.64 mi. in Charlestown. F. W. Everett, comr.

Vermont—May 14, at Office Dept. Highways, Montpelier, bituminous macadam or one course rein.-con. paving 3 mi. Federal Aid Project 62-B, in New Haven, and 2.5 mi. Federal Aid Project 72A-1, in Shelburne; bituminous macadam paving 2 mi. Federal Aid Project 82-A, Highgate; rein.-con. paving 1.68 mi. Federal Aid Project 91-A, Hartford; also 3 span steel and concrete bridge with approaches on 0.61 mi. Federal Aid Project 55-D, Barton, 325 ft. span steel bridge with concrete abutments approach span and road approaches, on Federal Aid Project 59-A, Brattleboro, and 1 steel superstructure for bridge on Federal Aid Project 88-A, Morristown, S. B. Bates, comr.

Massachusetts — May 11, by Dept. Pub. Wks., Boston, bituminous macadam paving 5,281 ft. highway in Rayham; 18,448 ft. in Hingham and Weymouth; 1,950 ft. in Medway, and 3,300 ft. in Grafton. W. F. Williams, comr.

Mass., Boston — May 11, by Dept. Pub. Wks., granite block paving Dorchester Ave. near Power St. $25,000. J. H. Sullivan, comr.

Streets and Roads (Continued)

Mass., Dorchester (Boston P. O.) — May 12, by Dept. Pub. Wks., Boston, sheet asphalt or bitulithic paving Lorna Rd., Lucerne St. and Wyola Pl., here. $25,000. J. H. Sullivan, comr.

N. J., Atlantic City — May 12, by Bd. Freeholders Atlantic Co., 2,500 tons bituminous concrete paving on Shore Rd. and Pleasantville Blvd. A. N. Nelson, Atlantic City, engr.

N. Y., Brooklyn — May 12, by J. A. Guider, pres. Brooklyn Boro, Boro Hall, recurbing and asphalt on 6 in. concrete repaving Colonial Rd., Greenpoint Ave., Eagle, Moultrie, and Fulton Sts.; grading, curbing, flagging and sewers in East 7th St.; grading, curbing and flagging Minna St., Forbell and Pennsylvania Aves.; asphalt on 6 in. concrete paving East 7th and Minna Sts., Georgia and Pennsylvania Aves.; asphalt on 6 in. concrete paving and sewer in 50th St.

N. Y., New York—May 10, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing, flagging and 2 in. stone filled sheet asphalt on concrete paving Riverside Dr. W. from West 161st to West 163rd Sts.; grading, regrading, curbing, recurbing, flagging, reflagging and 2 in. stone filled sheet asphalt on concrete paving unpaved portion Riverside Dr. W. from West 163rd to West 165th Sts.

N. Y., Long Island City—May 10, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., repaving Betts Ave.; sheet asphalt on concrete repaving Astoria Ave.; asphalt block on concrete repaving Jackson Ave.; grading, curbing, sidewalks, etc., on Honeywell Ave.; and sheet asphalt on concrete paving 130th St.

N. Y., New York—May 13, H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sheet asphalt on concrete paving East 174th St., Cromwell and Commonwealth Aves.; grading, curbing, sidewalks and sheet asphalt paving East 153rd St.; bituminous concrete on concrete paving East 180th St., etc.; grading, etc., Bolton, Ellsworth and Spofford Aves.; also sewers, etc., in Yates and Bouck Aves.

N. Y., St. George — May 12, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and paving Arthur and Austin Aves.; grading, curbing and vitr. brick guttering Fremont and Greeley Aves.

New Jersey — May 24, by State Hy. Comn., Trenton, widening Whiteshore Pike, Route 3, Sect. 12-A from Egg Harbor to Hammonton, Atlantic Co. A. L. Grover, secy.; adv. E. N.-R. May 6.

N. J., Bogota (br. Hackensack)—May 13, by Mayor and Boro Council, H. P. Ross, boro clk., curbing and rein.-con. paving Park Pl. from Larch Ave. to River Rd.; and sheet asphalt on concrete paving Elm Ave. from Munn Ave. to boro line, etc.; adv. E. N.-R. May 6.

N. J., Manasquan—May 25, by Council of Boro Manasquan, reconstructing easterly end Main St. G. F. Randolph, Broad St., Red Bank, civil engr.; adv. E. N.-R. May 6.

N. J., Trenton—May 14, by City Comn., L. D. Hirsch, city clk., paving and repaving 13 streets. J. E. English, engr. Streets; adv. E. N.-R. May 6.

Pennsylvania — May 20, by State Hy. Dept., Harrisburg, rein.-con. paving approximately 36 mi. 9 projects in Adams, Butler, Cumberland, Clarion, Indiana, Lehigh, Berks, Northampton, Somerset, Westmoreland and York Counties. W. H. Connell, eng. executive and acting secy. highways; adv. E. N.-R. May 6.

Pa., Greensburg—May 13, at office W. A. Arter, controller Westmoreland Co., rein.-con. paving, etc., 17,988 ft. Harrison City-Trafford Rd., 16 ft., Penn Twp.

Pa., Southmont (Johnstown P. O.)—May 19, by Boro Council, R. G. Wertz, secy., concrete paving, etc., 6,950 sq.yd. Weaver Court Extension, Bliss and Gardner Sts.; also rein.-con. paving, etc., 9,400 sq.yd. Dell, Daisy and Violet Sts. S. E. Dickey & Co., 809 Johnstown Trust Bldg., Johnstown, engrs.

Pa., Steelton—May 10, by Town Council, H. R. Rupp, secy., 114 Walnut St., approximately 16,200 ft. curbing and 20,000 ft. paving, etc., 4th, Swatara, Elm and Conestoga Sts., River, South 3rd, Angle and Paxton Alleys.

Maryland — May 18, by State Roads Comn., Baltimore, concrete paving 1 mi. Contr. F-92 Frederick Co., 1 mi. Contr. B-76 Baltimore Co., 2.5 mi. Contr. P-66, Prince George Co., and 1.5 mi. Contr. Co-39 Caroline Co.; graveling 2 mi. Contr. SM-22, St. Marys Co.; also macadam resurfacing 1.6 mi. Contr. H-48, Harford Co., and 0.91 mi. Contr. H-38, Harford Co. J. N. Mackall, chn.; adv. E. N.-R. May 6.

Md., Baltimore—May 11, by Comrs. Baltimore Co., concrete paving 2.9 mi. Group 7, Monkton Manor Rd., etc. $85,000. S. A. Green, Courthouse, Towson, road engr.

Md., Baltimore—May 12, by Bd. Awards, grading, curbing and sheet asphalt paving 5,665 sq.yd. streets in Contr. 336; and concrete paving footways as listed in Footway Contr. 93. S. Purcell, City Hall, highway engr.

W. Va., Charleston—May 27, by City Council, vitr. brick paving 20,000 sq.yd. various streets. H. L. Campbell, Charleston, engr.

W. Va., Huntington—May 24, by Cabell Co. Court, improving 4 projects in Guyandotte Dist., 16,000 cu.yd. excav., 1,200 lin. ft. culvert pipe, 50,000 lb. reinforcing, etc. J. M. Oliver, co. engr.

N. C., Windsor — May 13, by Comrs. Bertie Co., clearing, grading, topsoiling, etc., 12.25 mi. Project 100, $60,000; 11 mi. Project 200, $50,000; and 8.6 mi. Project 400, $40,000. G. C. Walker, Windsor, engr.

Ga., Meigs—May 14, by T. Tipton, mayor, grading, curbing and concrete paving 4,117 sq.yd. various streets. J. B. McCrary Eng. Co., Citizens Savings & Bank Bldg., Atlanta, engrs.

Fla., Stuart—May 26, by City Comn., J. E. Taylor, mayor, bituminous macadam paving, etc. 14,200 sq.yd. Palm Beach Rd. $50,000. D. C. Egbert, Stuart, engr.

Miss., De Kalb—May 21, by Bd. Supervs. Kemper Co., improving 10.7 mi. Federal Aid Project 107-B, 35,717 cu.yd. excav., 47,516 cu.yd. borrow, 43,933 lb. reinforcing, 26,009 cu.yd. gravel 1 mi. haul, 103,103 units overhaul, etc. H. C. Dietzer, Jackson, engr.

Miss., Oxford — May 18, by Chancery Clerk Lafayette Co., gravel surfacing 10 mi. Holly Springs-Oxford Rd., Federal Aid Project 66-A, $155,000; grading, etc., 20 mi. Federal Aid Project 51-A $211,000, and 7 mi. Holly Springs-Grenada Rd., Federal Aid Project 99-A, $115,000.

La., Plaquemine—See "Sewers."

Ohio—May 14, by Dept. Highways and Pub. Wks., Columbus, macadam, bituminous macadam, brick, asphalt, etc., paving 250.6 mi. roads in Allen, Ashland, Ashtabula, Belmont, Clermont, Columbiana, Coshocton, Crawford, Cuyahoga, Erie, Fairfield, Greene, Hardin, Lake, Perry, Licking, Lorain, Mahoning, Marion, Medina, Preble, Warren, Meigs, Miami, Monroe, Montgomery, Morgan, Muskingum, Noble, Perry, Pike, Portage, Richland, Sandusky, Scioto, Shelby, Stark, Summit, Trumbull, Tuscarawas, Union, Warren, Wayne, Wood and Wyandot Counties, etc. Total $4,263,266. F. G. Schlesinger, highway engr.

O., Cincinnati—May 11, by Director Pub. Wks., curbing, sidewalks and granite block paving 2,660 sq.yd. Sycamore St. from 3rd to 4th Sts. $29,006. C. O. Sherrill, City Hall, engr.

O., Columbus—May 11, by W. H. Duffy, dir. Pub. Serv., grading, curbing, necessary sewer and water connections and paving with **(a)** brick **(b)** concrete 4,431 ft. Chestershire Rd., Eureka, Roys and Wright Aves., 24 ft., **(a)** $106,763 **(b)** $96,593; 5,269 ft. Mooberry St., Wilshire Rd. and Terrace Ave., 26 ft., **(a)** $99,405 **(b)** $86,997; and 155 ft. Michigan Ave., 60 ft., **(a)** $2,719 **(b)** $1,889. R. H. Simpson, city engr. Noted Aug. 20.

Indiana—May 11, by State Hy. Comn., Indianapolis, **(S. R. means State Road and F. A. means Federal Aid)** brick, bituminous concrete and concrete paving, etc. 6.613 mi. Sect. "A" S.R. 1, F.A. 81, Bartholomew Co.; 6.838 mi. Sect. "B" same road Bartholomew and Johnson Counties; 9.292 mi. Sect. "A" S.R. 10, S. 501, Lake and Newton Counties; 8.061 mi. Sect. "B" and 7.915 mi. Sect. "C" same road, Lake Co.; 4.792 mi. Sect. "A" S.R. 12, S. 502, Morgan, Hendricks and Marion Counties; and 7.15 mi. Sect. "A" S.R. 17, S. 506, DeKelb Co. J. D. Williams, dir.

Ind., Indianapolis—May 10, by Bd. Pub. Wks., grading and wooden block, asphalt, asphaltic concrete or concrete on 6 in. concrete paving, Drexel Ave.; also grading and cement paving Sangster Ave., 11th, Pratt and Tabor Sts.

Michigan—May 20, at office H. A. Beers, 311-312 McNair Bldg., Kalamazoo, graveling 4.732 mi. State T. L. Project 43-9, Sect. A., Barry Co. G. C. Dillman, Lansing, highway engr.

Mich., Bad Axe — See "Contracts Awarded."

Mich., Paw Paw—May 10, by Van Buren Co., graveling 5.3 mi. county road in Bangor Twp.

Mich., Pleasant Ridge—May 17, by O. C. Kiel, village clk., 8 in. concrete paving and curbing 6,958 sq.yd. Virgil Rose Ave. $25,000. Hubbell Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Mich., Sturgis—May 12, by H. M. Cole, village clk., grading and asphalt on concrete paving, etc., 36,251 sq.yd. Sturgis, Surprise, Wilson, Laurel, Michigan and Virginia Aves., East Main, George, North 4th, William, South Jefferson, Cottage, South Monroe, South 4th, and East Congress Sts. G. Champe, Toledo, O., engr.

Wisconsin—May 12, by State Hy. Dept. and Highway Com. of Kewaunee Co., Office 3, Nicolet Bldg., Green Bay, graveling, etc., 5,280 cu.yd. Federal Aid Project 132-A, Manitowoc Co., and 4,701 cu.yd. State Project, Div. 3012, Kewaunee Co.; crushed stone surfacing 3,634 cu.yd. Federal Aid Project 424-A, Calumet Co., 4,848 cu.yd. Federal Aid Project 435-A, Outagamie Co., and 3,592 cu.yd. Federal Aid Project 135-D; also grading, and constructing bridge, etc., on 1.93 mi. Federal Aid Project 192-B, Marinette Co. J. T. Donaghey, Madison, highway engr.

Wisconsin—May 13, by State Hy. Dept. and Comrs. Wood Co., Office 4, Wisconsin Rapids, grading, concrete surfacing, etc., 45,301 sq.yd. Federal Aid Project 394-B, and 42,982 sq.yd. County Project Job 4217. J. T. Donaghey, Madison, highway engr.

Wis., Wauwatosa—May 14, by Bd. Pub. Wks., A. V. Brigham, secy., grading, rein.-con. paving, etc., 7,495 sq.yd. Berwyn and Woodlawn Aves. $25,000.

Ia., Iowa City—May 11, at office Auditor Johnson Co., grading, etc., 9.65 mi. road, and paving Primary Road 7, west of here. Noted Apr. 22.

Ia., Iowa City—May 14, by G. Dolirer, city clk., concrete curbing, guttering and 7 in. concrete, 3 in. brick or 2½ in. asphalt paving 31,000 sq.yd. various streets. $120,000-$145,000. F. E. Young, city engr. Noted Apr. 22.

Ia., Storm Lake—May 11, at office Auditor Buena Vista Co., improving Primary-Secondary Projects S-82 to S-89, 36,760 cu. yd. gravel, 176,700 units overhaul, and 10,800 cu.yd. pit stripping. A. H. Cunningham, Storm Lake, engr.

Kan., Dodge City — May 27, by Clerk Ford Co., improving 5.182 mi. Federal Aid Project 56-A, 50,324 cu.yd. excav., 39,065 lb. reinforcing, etc.; and 5.254 mi. Federal Aid Project 56-B, 55,041 cu.yd. earth and 800 cu.yd. rock excav., 55,840 lb. reinforcing, etc. J. W. Thornburgh, Dodge City, co. engr.

Kan., Garrett—May 24, by Anderson Co., concrete and gravel surfacing 0.173 mi. Federal Aid Project 113-C, incl. 30 ft. subway span, etc.

Kan., Pratt — May 26, by Pratt Co., grading, etc. 1.265 mi. Federal Aid Project 305-B, incl. three 30 ft. deck girder spans, etc.; and 5.606 mi. Federal Aid Project 341-A, incl. six 30 ft. deck girder spans, etc.

Kan., Medicine Lodge—May 28, by Clerk Barber Co., improving 4.172 mi. Federal Aid Project 333-A, 33,565 cu.yd. excav., 16,360 cu.yd. sand clay surfacing 39,354 cu.yd. surfacing 1 mi. haul, etc. L. A. Tilton, Medicine Lodge, co. engr. Noted Dec. 17.

Kan., Wellington — May 25, by Clerk Sumner Co., improving 7.923 mi. Federal Aid Project 323-C, 35,280 cu.yd. excav., 14,305 cu.yd. sand clay surfacing, 24,542 lb. reinforcing, etc. J. W. Mavity, Wellington, co. engr. Noted Apr. 22.

S. D., Aberdeen—May 17, by L. Kohloff, city aud., paving, etc., 10 or more blocks various streets. $40,000 or more.

North Dakota — May 13, by State Hy. Dept. and Comrs. LaMoure Co., Court House, LaMoure, graveling, etc., 8.098 mi. Federal Aid Project 113; and grading, etc., 5.565 mi. Federal Aid Project 212-B.

North Dakota — May 14, by State Hy. Dept. and Comrs. Griggs Co., Court House, Cooperstown, grading, etc., 10.539 mi. Federal Aid Project 323-A.

North Dakota — May 12, by State Hy. Dept. and Comrs. Stutsman Co., Court House, Jamestown, grading, etc., 8.497 mi. Federal Aid Project 279-B.

North Dakota — May 18, by State Hy. Dept. and Comrs. McHenry Co., Court House, Towner, grading, etc., 9.654 mi. Federal Aid Project 270-D, and 9.391 mi. Federal Aid Project 274-B.

North Dakota — May 19, by State Hy. Dept. and Comrs. Burke Co., Court House, Bowbells, grading, etc., 7 mi. Federal Aid Project 258-E.

North Dakota — May 25, by State Hy. Dept. and Comrs. McIntosh Co., Court House, Ashley, grading, etc., 11.433 mi. Federal Aid Project 315-A.

Tex., Memphis—May 15, by A. C. Hoffman, judge Hall Co., grading and bridging 3.147 mi. Highway 5, Federal Aid Project 438-H, 26 ft. $42,000. C. L. Hasie, Memphis, co. engr. Noted Apr. 29.

Okla., Frederick—May 12, by B. Wright, city clk., grading and sheet asphalt paving 12,875 sq.yd. streets in Dists. 11 and 12. $63,780. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., engrs. Noted Apr. 8.

Nevada — May 12, by State Hy. Dept., Carson City, grading, surfacing, etc. 15.15 mi. roads from point 7 mi. north county line and point 5 mi. south Connor's Pass, and 6 mi. roads from point 6 mi. west Robinsons Summit to Robinsons Summit, White Pine Co.; 5.4 mi. road between West Co. Line

Streets and Roads (Continued)

and Virginia City, Storey Co.; also 22.48 mi. roads from Dutch John's to point 7 mi. north county line, Lincoln and White Pine Counties. G. W. Borden, Carson City, highway engr.

Washington—May 25, by State Hy. Dept., Olympia, constructing 5 mi. Federal Aid Project 131-B, State Rd. 12, Lewis Co.; crushed graveling, etc., 5,000 cu.yd. State Rd. 21, Kitsap Co.; gravel resurfacing, etc., 10,300 cu.yd. State Rd. 8, Clark and Skamania Counties; grading, concrete paving, etc., approximately 0.2 mi. Mt. Vernon-Anacortes Highway, Skagit Co.; also furnishing approximately 3,000 cu.yd. crushed rock for bunkers, on State Rd. 2, Chelan Co. J. W. Hoover, highway engr.

California—May 24, by State Hy. Comn., Sacramento, grading and screened gravel surfaling 3.8 mi. road between point 4 mi. west of Bieber and Bieber, Lassen Co. R. M. Morton, Forum Bldg., Sacramento, highway engr. Noted Dec. 24.

Calif., Los Angeles—May 17, by Supervs. Los Angeles Co., 8- to 10-in. concrete paving 270,150 sq.ft. Slauson Ave. between Laguna Rd. and Flood Control line; also grading, 24,578 sq.ft. 6- to 8-in. and 15,182 sq.ft. 8 in. concrete paving on disintegrated granite sub-base, Garvey Ave. between east city limits of El Monte to Tyler St. G. Jones, Hall of Records, engr.

Calif., San Diego—May 17, by Common Council, improving Rosecrans, Talbott Sts., etc., 123,828 sq.ft. 5 in. concrete paving, 8,681 cu.yd. excav., 6,844 lin.ft. concrete curbing, etc. F. A. Rhodes, city engr. Noted Apr. 8.

Calif., San Rafael—Marin Co. taking bids grading and graveling 9 mi. Tiburon Blvd., 22 ft. To exceed $50,000. J. C. Oglesby, San Rafael, co. surv.

Ont., Lucknow — May 12, by G. E. Stephenson, County Bldg., Walkerton, concrete or penetration macadam paving 16,000 sq.yd. Main St. $40,000. Noted Feb. 19.

Sask., Denholm—May 12, by H. S. Carpenter, deputy minister, grading, etc. 22,500 cu.yd. Project 6-K-c Denholm West, and 44,000 cu.yd. Project 19-B-A, Kincaid north extension. $70,000.

Bids Received

Massachusetts—Dept. Pub. Wks., Boston, bituminous concrete paving 3,764 ft. highway in West Bridgewater, from Washburn & Sheridan, East Taunton, $14,143; and rein.-con. paving 4,600 ft. in Norwood, from Perini & Ampolini, Plainville, $54,676. Noted Apr. 22.

Conn., New Haven—From C. W. Blakeslee Co., Waverly St., asphalt resurfacing Broadway, Whalley and Whitney Aves. $52,410, and Union Ave. $26,955, also granite block and concrete paving Forbes Ave. $21,290. Noted Apr. 29.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, Apr. 28, from F. Mandato, laying sidewalks on 7th Ave., $2,280; from F. Persicano, 489 Lenox Rd., regrading, sidewalks on 67th St., $1,710; from Castle Bros., Johnson Pl., grading, curbing and flagging Bath Ave. $3,923, and East 37th St. $3,737; from Grimm Contg. Co., 170 McKinley St., grading Miller Ave. $4,537, from McHale Contg. Co., 1250 Jefferson Ave., 15th Ave. $5,018, from G. M. Mandato, 129 29th St., East 27th St. $7,316; from Sicilian Asphalt Paving Co., Paidge Ave., grading, and sheet asphalt paving Bergen St. $20,811, from Borough Asphalt Co., 1301 Metropolitan Ave., East 27th St. $14,116, Livonia Ave. $5,712, Avenue R $4,339, West 5th St. $6,265, Willoughby Ave. $4,332, 12th Ave. $7,624, 21st Ave. $3,003, 70th St. $8,637, also regulating curb on Montgomery St. $7,223, 47th St. $7,531 and 5th St. $6,791; from Uvalde Asphalt Paving Co., 1 Bway., New York City, grading and asphalt paving Decatur St. $27,135, and Hooper St. $9,654, from Brooklyn Alcatraz Asphalt Co., Hamilton Ave., Avenue M $14,794, 7th Ave. $11,237, and 67th St. $6,365 and from B. Turecamo, 8706 16th Ave., 71st St. $13,930.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., Apr. 27, from L. Di Minna, 2366 Lorillard Pl., grading, curbing and sidewalks on East 172nd St. $20,164, and Lafayette Ave. $4,585; from Remo Realty Co., 530 East Tremont Ave., Barnes Ave., $5,105; from F. Gabrielle, Inc., 2750 Creston Ave., East 194th St. $8,436, and Pugsley Ave. $7,631; from P. J. Donovan, 30 Church St., Edison Ave., $9,920; from A. Musumeci, 277 East 146th St., Needham Ave. $2,073, Hering Ave. $4,437, and Mulford Ave. $6,292; from F. Spadaro, 2913 Creston Ave., Underhill Ave. $4,001, and East 177th St. $18,981; from J. V. Timoney Constr., 320 East 201st St., Morris Ave., $15,336; and from P. Tedesco, Westchester Ave., Laconia Ave., $3,530. Noted Apr. 22.

N. Y., New York—J. Miller, pres. Manhattan Boro, Boro Hall, Apr. 29, granite block repaving Greenwich St., from J. Meehan & Son, Inc., 90 West St., $48,444; sheet asphalt repaving Stanton St., from Highway Impvt. & Repair Co., 50 Church St., $126,571, 42nd St. from W. J. Fitzgerald, 547 West 45th St. $72,899, and Madison Ave., from Interboro Asphalt Co., 2306 Creston Ave., $104,899. Noted Apr. 22.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, Apr. 30, concrete sidewalks on New Dorp Lane, Hylan Blvd., etc., from F. J. Zarrelli, 465 Cary Ave., West New Brighton, $4,263; bituminous concrete repaving Targee St. and Castleton Ave., from J. E. Donovan Paving Co., 2205 Richmond Terrace, Richmond, $37,988. Noted Apr. 29.

N. J., Elizabeth — Bd. Pub. Wks., City Hall, Apr. 22, from Standard Bitulithic Co., 50 Church St., New York City, grading, curbing, sidewalks and asphalt on concrete paving Acme St. $11,686, Bellevue St. from Jersey Ave. to Chancellor St. $7,823, Bellevue St. from Rahway Ave. to Murray St. $14,969, Chilton St. $12,765, Cleveland Ave., $8,624, Floral Ave. $9,763, and Palisade Rd. $5,553; Pershing Ave. $14,957, 6th St. $14,670, South 5th St. $25,362, and Verona Ave. $12,883; from Elizabeth Paving Co., Elizabeth, Loomis St. $20,928; from J. B. Gilligan-Casey Co., 972 Broad St., Newark, Parker Rd. $12,323 and Stanton Ave. $8,022; from J. M. Gambone, 1182 Drake Ave., Roselle, Myrtle St. $2,119.

N. J., Newton—Bd. Freeholders Sussex Co., Apr. 27, grading and concrete paving Sparta-Lafayette Rd., Sparta Twp., from F. H. Clement & Co., Bethlehem, Pa., $41,991. Noted Apr. 8.

Delaware—State Hy. Dept., Dover, Apr. 28, clearing, grubbing, grading, etc. (1) 1.5 mi. White Oak Rd. addition, Contr. 62 (2) 2.32 mi. Gums Cross Rds.-Laurel Rd., Contr. 63; Improving with (a) stone (b) slag (c) stone concrete (d) slag concrete (e) sand asphalt (*) metal joint (†) non-metal joint (3) 1.9 mi. Smyrna-Wendalls Corner, Contr. CK-34 and (4) 4.97 mi. Concord-Hardscrabble, Contr. CS-50, from George & Lynch, Dover, (1) $11,733 (3a*) $56,335 (3a†) $55,830 (3b*) $55,725 (3b†) $55,220; from Old Line Constr. Co., Chestertown, Md. (2) $19,365 (4c) $126,425; from Field, Barker & Underwood, Commercial Trust Bldg., Phila., Pa., (4d) $123,460; from Spague Constr. Co., New York City, N. Y., (4e) $113,502. Noted Apr. 15.

Maryland—States Rds. Comn., Baltimore, for concrete paving 1 mi. Contr. WI-36, Wicomico Co., from Layfield & Waller Paving Co., Quantico $19,866 and 0.42 mi. Contr. G-32, Garrett Co., from Tri-State Eng. Co., Cumberland $13,176; concrete shoulders on 5.6 mi. Contr. 4-3-A, Harford Co., from Thomas, Bennett & Hunter, Westminster $45,030, 3.4 mi. Contr. Ce10-A, Cecil Co., from Broad Creek Constr. Co., Elkton $13,516, and 4.1 mi. Contr. M-69, Montgomery Co., from Corson & Gruman Co., 33rd and K Sts., Wash., D. C., $27,798; grading, etc. 2.1 mi. Contr. G-30, Garrett Co., from H. W. Kaylor, Cumberland, $28,059; macadam resurfacing 0.54 mi. Contr. F-88, from E. C. Valentine, Rocky Ridge $6,092, and 0.54 mi. Contr. F-27, L. R. Waesche, Thurmont, $10,748, both in Frederick Co.; also graveling 1.5 mi. Contr. C-24, Calvert Co., from E. R. P. Smith, Hyattsville, $13,191. Noted Apr. 15.

Md., Baltimore—Bd. Awards, sheet asphalt paving 7,800 sq.yd. Contr. 335, from Baltimore Asphalt Block & Tile Co., 1320 North Monroe St. $28,628, and 10,610 sq.yd. Contr. 334, from P. Flanigan & Son, Harford Rd. and Baltimore & Ohio Ry. tracks $42,344; also concrete paving 8,600 sq.yd. Contr. 333, from Tydings, Marine Co., 236 Albemarle St., $23,596. Noted Apr. 22.

Md., Baltimore — Bd. Awards, Apr. 28, concrete paving footways listed in Foot way Contr. 92, from A. Apicella, 2907 McElderry St., $33,837. Noted Apr. 29.

Florida — State Rd. Dept., Tallahassee, Apr. 28, clearing, grubbing, grading, etc., 14.2 mi. road in Seminole Co., 30 ft., from S. Vadner & E. P. Miller, Ormond Beach, $123,528. Noted Apr. 8.

Louisiana—State Hy. Comn., Baton Rouge, graveling 4.943 mi. Livonia-Opelousas Highway, Federal Aid Project 169-A, Point Coupee Parish, from Young & DeBritton, Zachary, $101,183; 7.47 mi. Livonia-Opelousas Highway, Federal Aid Project 160-B, from J. P. Herbert, Breaux Bridge, $138,398, 5.1 mi. Hammond-New Orleans Highway, State Project 156-C, Unit 1, St. John Baptist and St. Charles Parishes, from McWilliams Dredging Co., Carondelet Bldg., New Orleans, $171,895; 5.21 mi. Lake Charles-Lake Arthur Highway, Jefferson Parish, from B. G. Zigler Co., Jennings, $39,985; and 7.07 mi. Franklin-Covington Highway, State Highway Project 509-A, Washington Parish, from J. H. Newton Constr. Co., Amity, $41,216. Noted Apr. 8 and 22.

O., Cincinnati—Comrs. Hamilton Co., Apr. 23, grading and concrete paving 12,000 sq. yd. North Bend Rd., from Gradison Constr. Co., 1st Natl. Bank Bldg., $39,910, engrs. est. $41,721, and 22,575 sq.yd. Camargo Rd. from J. L. Radabaugh, Montgomery Pk., $83,808 engrs. est. $96,516; also two 78 ft. span concrete girder bridge, on Red Bank Rd., from United Constr. Co., 3342 Burnet Ave., $16,979 engrs. est. $25,000. Noted Apr. 22.

O., New Philadelphia—Tuscarawas Co., waterbound macadam paving 6 mi. Newport-Gilmore Rd., 16 ft., from C. C. Fuller, Dover, $95,495. Engrs. est. $100,000. Noted Jan. 21.

Mich., Muskegon—H. L. Brown, engr., 711 Union Bank Bldg., taking bids grading, sidewalks and concrete paving 18,440 sq.yd. McGraft St.-Glenside subdivision, for Muskegon Co. $55,000.

Ill., Peoria — Bd. Local Impvts., C. F. Barston, pres., Apr. 19, grading, curbing and concrete paving 8 blocks Greenlawn Ave., 30 ft., from G. H. Johnson, 520 South University St., $30,538. Engrs. est. $44,482. Noted Apr. 15.

Wis., Milwaukee—Dept. Pub. Wks., Apr. 21, from Froemming Bros., 1326 Humboldt Ave., vibrolithic concrete paving 18th St. $7,137, 19th St. $7,848, 20th St. $9,268, and Weil St. $22,394, from Czerwinski Constr. Co., 765 Natl. Ave., South Water St. $8,129, from Kroening Constr. Co., 39th Ave. and Mitchell St., Center St. $30,580, from Gumz & Switalski, 831 13th Ave., 3rd Ave. $23,983, and Trowbridge Ave. $15,759, and from F. Blodgett, 521 Newton Ave., Franklin St. $42,249, Hubbard St. $7,158, Locust St. $9,621, and one course concrete paving Center St. $29,049; and from Badger Constr. Co., 97 Wisconsin St., asphaltic concrete paving Center St. $39,316; from N. Harris, 417 Juneau Pl., cement sidewalks on Cedar St. $1,523.

Minn., Minneapolis—A. E. Erickson, aud. Hennepin Co., Apr. 19, widening and asphaltic concrete resurfacing 4 mi. Highway 7 between Orono and Minnetonka, from Hanlon & Okes, 1501 Merchants Natl. Bank Bldg., St. Paul, $78,500. Noted Apr. 1.

Tex., Baird—V. G. Gilbert, judge, Callahan Co., Apr. 13, clearing, grubbing, bridging and concrete paving, etc., 32.06 mi. Highway 23, State Aid Project 655-C, from C. H. Van Eman, Cisco, $50,104, engrs. est. $66,000; and surfacing with (a) regular bid (b) 2½ in. brick on sledged stone (c) 2½ in. brick on concrete (d) bates type concrete 8.39 mi. Highway 1, Federal Aid Project 52-E—Unit 2, from McClung Constr. Co., F. & M. Bank Bldg., Fort Worth (a) $123,978 (c) $223,764 (d) $212,211, from Durland & Regan, Cisco, (b) $199,022. Noted Apr. 1.

Tex., Boston—Bowie Co., grading, bridging and gravel surfacing 6.969 mi. Highway 89, State Aid Project 644, from Foshee & Gamford, Paris, $36,000. Noted Apr. 15.

Tex., Boston — S. J. Robinson, judge Bowie Co., grading, bridging and gravel surfacing 10.75 mi. State Highway 98, State Aid Project 644, from W. M. Fooshee & H. G. Gafford, Paris, $35,972. Noted Apr. 8.

Tex., Sherman — O. J. S. Ellington, city mgr., curbing, grading and paving 107,000 sq.yd. various streets, from J. P. Doty, Box 1486, Wichita Falls, $2.35 per yd. Noted Apr. 8.

Tex., Sweetwater—Nolan Co., bituminous on caliche and sledged stone paving 15.22 mi. Highway 1, Federal Aid Project 444-B, Unit 2, from Atex Constr. Co., Exchange Natl. Bank Bldg., Eastland, $240,838, engrs. est. $348,400; grading and bridging 7.82 mi. Highway 70, State Aid Project 534-C, from R. B. Straup, Oklaunion, $27,534, engrs. est. $87,000. Noted Apr. 8.

Calif., Maywood—Grading, and 9 in. concrete paving, etc., 292,755 sq.ft. Atlantic Ave., from B. R. Ford, 407 West 17th St., Santa Ana, $108,217. Noted Apr. 8.

Contracts Awarded

Vermont—Office Dept. Highways, Montpelier, one course rein.-con. paving 5.4 mi. highway in towns Pownal and Bennington, Federal Aid Project 73-B, to J. H. Kerr, Rumford, Me., $242,531. Noted Apr. 15.

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 24,123 ft. highway in Bernardston, to New Haven Road Constr. Co., 70 Hill St., New Haven, Conn., $152,283; rein.-con. paving 5,284 ft. highway in Agawam, to D. O'Connell Sons, Holyoke, $72,031; bridging and bituminous macadam and rein.-con. paving 1,050 ft. highway in Bilerica, to Simpson Bros. Corp., 77 Summer St., Boston, $42,189. Grand total $266,503. Noted Apr. 15.

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 10,700 ft.

Streets and Roads (Continued)

highway in Northfield, to Kelleher Corp., Turners Falls $77,146, 21,566 ft. in Monson, to New Haven Road Constr. Co., 70 Hill St., New Haven, Conn. $159,223, and 12,200 ft. in Saugus and Revere, to M. McConough Co., Swampscott $132,450; rein.-con. paving 1,200 ft. in Swampscott, to Simpson Bros. Corp., 77 Summer St., Boston, $11,-685; bituminous concrete paving 4,400 ft. in Nantucket, to M. F. Roache, East Bridgewater, $16,497; also 2 bridges and approaches on section highway in Amherst, to P. Keating, Fitchburg, $16,996. Grand total $413,997. Noted Apr. 29.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, to F. DeVito, 158 17th St., grading Ashford St. $5,382, East 12th St. $3,484, East 27th St. $3,171, West 5th St. $3,700, West 7th St. $4,098, West 9th St. $5,567, 54th St. $2,494, 56th St. $3,868, and 71st St. $5,136, to Castle Bros., Inc., Johnson Pl., Bedford Ave. $3,843, East 9th St. $3,847, to V. Peconi, 581 Prospect Ave., East 27th St. $2,949, East 35th St. $891, Ryder Ave. $1,248, and 64th St. 2,045, to A. E. Castle, Inc., 3313 Tilden Ave., East 37th St. $3,416, and Remsen Ave. $6,877, to F. Persicano, 489 Lenox Ave., 56th St. $3,163; to Borough Asphalt Co., 1301 Metropolitan Ave., asphalt paving Bedford Ave. $9,819, Brooklyn Ave. $10,205, East 8th St. $4,585, East 27th St. $7,590, East 29th St. $7,987, Remsen Ave. $4,361, Ryder Ave. $3,230, Schenck Ave. $4,283, 11th Ave. $17,456, and 54th St. $5,392; to Uvalde Asphalt Paving Co., 1 Bway., New York City, East 35th St. $3,025, to Cranford Co., 52 9th St., Powell St. $5,939, to B. Turecamo Contg. Co., 8706 Bay 12th St., 7th St. $6,513, 56th St. $6,734, 80th St. $7,765, and granite paving 82nd St. $18,216. Grand total 188,279. Noted Apr. 22.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous macadam paving St. Marks Pl. from Hamilton to Westervelt Aves., to Vanbro Constr. Corp., 24 Elizabeth St., West New Brighton, $18,510. Noted Apr. 29.

New Jersey—State Hy. Comn., Trenton, grading Route 17, Sect. 1, Hackensack to Rutherford, to H. Shapiro Constr. Co., Albany, N. Y., $165,930. Noted Apr. 15.

N. J., Hopewell—Mercer Co. (Trenton), penetration macadam paving 1.25 mi. Hopewell-Stoutsburg Rd., to Sigafoos & Poore, Riegelsville, Pa., $41,463. Noted Apr. 22.

Md., Baltimore—Bd. Awards, sheet asphalt paving 16,700 sq.yd. Contr. 329, to Amer. Paving Co., Montebello Ave. $62,673, and 18,800 sq.yd. Contr. 330, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St. $65,653; also concrete paving 15,300 sq.yd. Contr. 331, to Tydings, Marine Co., 236 Albemarle St., $42,671. Grand total $170,997. Noted Apr. 29.

Pennsylvania—State Hy. Dept., Harrisburg, **(R. means Route and A. means Application)**, rein.-con. paving, etc. 15,188 sq.yd. R. 257, Allegheny Co., to Hardy & Rankin, Canonsburg $68,836, 8,686 sq.yd. A. 3636, Somerset Co., to Windber Constr. Co., Windber $48,056, 26,446 sq.yd. R. 161, Northumberland Co., to W. M. Moser, Mt. Carmel $148,919, 21,008 sq.yd. Rs. 230-441, York Co., to Continental Contr. Co., Knickerbocker Bldg., Baltimore, Md. $188,-693, and 23,600 sq.yd. R. 447, Crawford Co., to H. E. Bunce, 125 Fulton St., Olean, N. Y. $100,467; concrete paving, etc., 27,856 sq.yd. R. 169, Monroe Co., to Collins & Maxwell, Easton, $128,785; and waterbound macadam paving, etc. 40,285 sq.yd. As. 3759 and 3760, Monroe Co., to Lane Constr. Co., 37 Colony St., Meriden, Conn., $95,994. Grand total $779,150. Noted Feb. 18, Mar. 18 and Apr. 1.

North Carolina — State Hy. Dept., Raleigh, grading, concrete or asphalt paving, etc., 6.83 mi. Project 985, Swain Co., to Ziegler Bros., Greensboro, $178,172. Noted Feb. 18.

Ga., Atlanta—To C. A. Pittman, 12 Elizabeth St., vibrolithic paving 2,972 sq.yd. Walthall St. at $2.03 per sq.yd., 4,196 sq. yd. 1st Ave. $2.02, 2,924 sq.yd. Farrington St. $2.06, 1,886 sq.yd. Maiden Lane $2.07, and 1,056 sq.yd. Haygood St. $2.13, and to Jamison & Hallowell, Candler Bldg., 2,485 sq.yd. Michigan Ave. $2.12, and 1,019 sq.yd. Fern St. $2.07; also to McDougal Constr. Co., 180½ Spring St., asphalt paving 2,637 sq.yd. Bass St. $2.20.

Ga., Rome—Paving 20,000 sq.yd. various streets, to Atlantic Bitulithic Co., Munsey Bldg., Wash., D. C., Approximately $50,000.

Ga., Tifton — To Atlantic Bitulithic Co., Munsey Bldg., Wash., D. C., improving various streets, 41,700 sq.yd. bitulithic asphalt surfacing at $2.47 per sq.yd., and 16,200 lin.ft. concrete curb and gutter $0.88. Noted Mar. 11.

Fla., Dade City—Grading, guttering, sidewalks and vitr. brick paving, etc., various streets, to McLeod Constr. Co., Tampa, $250,000.

Fla., St. Augustine—To J. M. Johnson, Jacksonville, paving various streets in North St. Augustine $179,286, sidewalks $46,543, and sewers $75,084. Grand total $300,913.

Fla., Tampa—To Cone Bros., Tampa, vitr. brick paving, etc., New Orleans Ave. from Nebraska Ave. to 15th St., $28,622; to Carroll Henderson, Tampa, Plymouth St. from Old to Maine and North 1st Sts. $29,244, Lynn St. from Buffalo to Aubone and Plymouth Sts., etc., $26,376, Oregon Ave. from Main to St. John Sts. $31,884, Cleveland St. from Southern Blvd. to Railway and portion of Euclid St. $29,799, Cleveland St. from Atlantic Coast Line Ry. tracks to Howard St., $50,525, Comanche St. $29,635, and Lime St. $44,831; to J. Stanton, 3 in. vitr. brick on 6 in. shell paving 17,000 sq. yd., 15th St. from Hanna Ave. to Hilton Place Dr. $84,583, 11,000 sq.yd. 15th St. from Hillsboro Ave. to certain point of Hanna Ave. $53,497, 11,000 ft. 15th St. from Osborn to Hillsboro Aves. $53,497, and 11,000 sq.yd. 15th St. from Buffalo to Osborn Aves. $53,497. Grand total $516,260. Noted Apr. 1.

Ala., Fayette—Town and State Hy. Dept., Montgomery, concrete paving 1.5 mi. highway through town, 20 ft., to W. H. Pattie, 1566 North 23rd St., Birmingham, $45,299. Engrs. est. $46,000.

Ala., Opelika—Asphalt on concrete paving 12 blocks North 10th St. and Ave. B, 40 and 60 ft., to Sullivan, Long & Haggerty, Bessemer, $46,000. Engrs. est. $46,550.

Louisiana — State Hy. Comn., Baton Rouge, rein.-con. paving 7.139 mi. Shreveport-Marshall Highway, Federal Aid Project 160, Caddo Parish, to J. J. Harrison, Oklahoma City, Okla., $231,264; warrenite bitulithic paving 3.971 mi. West End-Carrollton Highway, State Project 537, Orleans Parish, to Southern Uvalde Rock Asphalt Co., 3905 Gravier St., New Orleans, $160,-547; and graveling 7.49 mi. Monroe-Winnesboro Highway, Federal Aid Project 165 A and B, Richland Parish, to Alexandria Constr. Co., Alexandria $77,793, and 6.71 mi. Campt-Conshatta Highway, Natchitoches Parish, to Hankins Bros., Natchitoches, $43,042. Grand total $512,-646. Noted Apr. 29.

Louisiana — State Hy. Dept., Baton Rouge, graveling 3.074 mi. New Orleans-Mississippi Highway, St. Tammany Parish, to S. B. Boyd, Baton Rouge, $18,335; 9.1 mi. Eunice-LeCompte Highway, Evangeline Parish, to Banta & Mutersbough, Inc., Lake Charles, $49,249; and 3.14 mi. New Hope-Good Hope Parish Highway, St. Charles Parish, to S. T. Hulse, Destrihan, $9,982. Grand total $77,566. Noted Apr. 1 and 22.

Louisiana — State Hy. Comn., Baton Rouge, hardsurfacing 7.169 mi. Shreveport-Monroe Highway, to J. J. Harrison, Oklahoma City, Okla., $231,264; bridge over Turkey Creek on Winnesboro-Vidalia Highway, Franklin Parish, to Banta & Mutersbough, Lake Charles; graveling 5.12 mi. Natchitoches-Boyce Highway, to Hankins Bros., Natchitoches, $41,407, and 8.91 mi. Natchitoches-Boyce Highway, both to W. B. Baillio, Baton Rouge.e Natchitoches Parish, 6.91 mi. Jonesboro-Monroe Highway, Jackson Parish, to I. M. Goldberg, Baton Rouge; bridges on Houma-Morgan City Highway Terrebonne Parish, to C. C. Duplantes, Baton Rouge, Barrow Street Bridge over Bayou Terrebonne on Houma-Raceland Highway, Richland and Morehouse Parishes, to Austin Bridge Co. Noted Apr. 22.

Ohio — Dept. Highways & Pub. Wks., Columbus, grading and asphaltic macadam paving 0.153 mi. Sect "A" Columbiana-Canfield Rd., Columbiana Co., and 5.856 mi. Sect. "B" same road, Mahoning Co., both 18 ft. to J. D. Paxon, Salem, $3,622 and $146,351 respectively and 3.26 mi. Sect. "G" Mt. Gilead-Sunbury Rd., 16 ft., Morrow Co., to L. Delmer, Tiffin $24,006; waterbound macadam, oil paving 1.046 mi. Sect. "E" Toledo-Byran Rd., 20 ft., Fulton Co., to C. M. Gray, Waterville $25,809, 4.165 mi. Sect. "N" Columbus-Cincinnati Rd. 18 ft., Warren Co., to J. W. Weeks, Dayton $107,579, and 2.043 mi. Sect. "B" Bowling Green-Napoleon Rd., 18 ft., Wood Co., to Van Waggoner Co., Bowling Green $23,278; bituminous macadam, oil paving 2.043 mi. Sect. "E" Painesville-Ravenna Rd., 16 ft., Geauga Co., to G. A. Stein, Niles, $59,368; bituminous macadam, tar paving 5.562 mi. Sect. "C" Mt. Gilead-Marion Rd. 18 ft., Morrow Co., to N. B. Putnam, Columbus, $135,893; bituminous macadam paving 3.09 mi. Sect. "C" Fremont-Republic Rd., 18 ft., Sandusky Co., to Lee Bros. & Petticord, Clyde $71,182, 2.017 mi. Sect. "0-2" Chagrin Falls-Greenville Rd., 18 ft., Trumbull Co., to Brady Bros., Warren $61,737, and 0.634 mi. Sect. "Waynesville" Columbus-Cincinnati Rd. 18 ft., Warren Co., to J. W. Weeks, 300 Gibbins Arcade, Dayton $17,440; concrete paving 3.845 mi. Sect. "K" Jackson-McArthur Rd., 16 ft., Jackson Co., to Brewer & Brewer Sons, Chillicothe $93,531, 0.841 mi. Sect. "Hebron" National Rd., 20 ft., Licking Co., to Lynn Constr. Co., Paulding $28,120, 1.225 mi. Sect. "N" Zanesville-Cincinnati Rd., 18 ft., Muskingum Co., and 0.604 mi. Sect. "Fultonham" same road, to W. C. Brown, Chillicothe, $40,720 and $17,-855 respectively, 3.812 mi. Sect. "A" National Rd., 18 ft., Preble Co., to G. H. Haffner & Sons, Celina $100,972, 2.261 mi. Sect. "C-1" Hamilton-Richmond Rd., 18 ft., Preble Co., to Mannix Bros., Greenville $77,552, and 0.906 mi. Sect. "C" New Philadelphia-Uhrichsville Rd., 20 ft., Tuscarawas Co., to J. C. and W. K. Drake, Marion, $30,818; brick on concrete paving 4.07 mi. Sect. "B" Versailles-Sidney Rd., 16 ft., Shelby Co., to J. Frantz, Sidney, $156,852; concrete widening and brick paving 2.86 mi. Sects. "D-3," E and "E-2" Columbus-Lancaster Rd., 20 ft. Franklin Co., to F. H. Beckler, Athens, $46,260; furnishing and delivering brick, etc. 2.86 mi. same road, Franklin Co., to State Dept. of Welfare, Columbus, $20,639; rolled sandstone base on 5.882 mi. Sects. "H" and "M" Ironton-Gallipolis Rd., 12 ft., Gallia Co., to Miller Bros., Gallipolis, $18,111; quarrying, crushing, hauling and spreading limestone on 4.5 mi. Sect. "F" Gallipolis-McArthur Rd., Gallia Co., 10 ft., to R. Shafer, Athens, $15,598; bituminous macadam resurfacing 2.47 mi. Sect. "J" Youngstown-Pittsburgh Rd., 20 ft., Mahoning Co., to Tri-State Constr. Co., Youngstown, $31,579; grading and widening, etc., 0.72 mi. Sect. "H" Cambridge-Caldwell Rd., Noble Co., to McElfresh & Danford, Caldwell, $12,890. Grand total $1,393,099. Noted Apr. 8.

O., Alliance—Bd. Control, brick paving, etc., South Seneca St. from Milner to Mill Sts., to J. Wilson, 62 East Summit St. $70,830. Engrs. est. $70,000. Noted Mar. 25.

O., Cincinnati — Oiling 25 mi. various macadam streets, to J. S. Tobitt & Co., 325 Wyoming Ave., Wyoming, $38,500. Engrs. est. $40,000. Noted Apr. 22.

O., Cincinnati — Comrs. Hamilton Co., grading and tarbound macadam repaving 20,000 sq.yd. Deerfield Rd. from Cornell to Cincinnati-Zanesville Rds., to J. S. Stone, 2312 Mound Ave., Norwood, $47,380. Engrs. est. $48,810. Noted Apr. 15.

O., Cleveland — Comrs. Cuyahoga Co., grading and travelbound macadam paving 3,000 sq.yd. River Rd. 3, to Chapman & Harris, 3305 Hyde Park Ave., $71,429. Noted Apr. 29.

O., Cleveland — Comrs. Cuyahoga Co., travelbound macadam paving Edgerton Rd. 6, to Cleveland Trinidad Paving Co., The Arcade, $30,192. Engrs. est. $34,000.

O., Columbus — Dept. Highways & Pub. Wks., Columbus, grading and concrete paving, etc. 3.931 mi. Sect. "B" Bowling Green-Napoleon Rd., Allen Co., to G. H. Heffner & Son, Celina, $91,982. Noted Apr. 8.

O., Marion—Bd. Control, brick paving, etc., East Church St. from Reed Ave. to Kensington Pl., to Uncapher & Gillespie, Marion, $53,148, engrs. est. $50,000; also rein.-con. paving, etc., Merkel Ave., from Uncapher to Whittier Aves., to P. Drake & Son, Marion, $26,397, engrs. est. $25,000. Noted Apr. 8.

O., Steubenville—Jefferson Co., resurfacing 9½ mi. Smithfield-Rayland and Wills Creek Rds., to Daughorty & Leech, Steubenville, $55,178.

O., Upper Arlington (Columbus P. O.)—N. W. Copeland, village clk., grading, curbing, guttering, sheet asphalt paving 46,005 5 sq.yd. etc. Baldridge, Suffolk, Twesbury, Beverly, Wickford, Chatfield, Berkshire, Collinswood, Andover, Coventry, Henthorne, Parkway, Kent, York and Wilshore Rds., to B. F. Patterson, 1214 Neil Ave., Columbus, $247,737. Noted Apr. 1.

Ind., Anderson — Comrs. Madison Co., Court House, grading, curbing and concrete paving ¾ mi. West 9th St. from Madison to Raible Aves., to H. A. Carpenter, Brazil, $55,113; also ¼ mi. Pitt St. from 26th to 29th Sts., to L. Burke, 1514 Pearl St., $5,635. Noted Apr. 8.

Michigan—State Hy. Dept., at office Sanilac Co., Sandusky, graveling 6.01 mi. Federal Aid Rd. 122-B, and 5.004 mi. Federal Aid Rd. 122-C, 18 ft., to Deckerville Constr. Co., Deckerville, $82,533 each; and 6.003 mi. Federal Aid Rd. 122-A-2, to C. W. Whitely, Sandusky, $71,629. Grand total $236,695. Noted Dec. 10.

Michigan — State Hy. Dept., at office comrs. Sanilac Co., Sandusky, graveling 2.756 mi. Trunk Line Rd. 38-6, Sect. C, and

Streets and Roads (Continued)

7.443 mi. Sects. A-1 and A-2 same road, 18 ft., to T. McNally, Saginaw. Noted Dec. 17.

Michigan — State Hy. Dept. at office Comrs. Cheboygan Co., Cheboygan, gravelling 7.147 mi. Federal Aid Rd. 172 A3, 18 ft., to F. McNally, Bridgeport, $55,519. Noted Oct. 22.

Mich., Bad Axe—Huron Co., 20 ft. concrete paving 2 mi. A. D. Rd. 36 and 38, to Deckerville Constr. Co., Deckerville, $36,-971; 9 ft. graveling 3 mi. A. D. Rd. 14, to Belknap & Sugden, Mayville, $17,999, also 8 mi. A. D. Rd. 26 and 48, by day labor. Noted Apr. 8.

Mich., Detroit—To M. R. Hanna Co., 2700 Six Mile Rd. E., 3½ in. sheet asphalt on 8 in. concrete paving 7,530 sq.yd. Briarcliff Rd. $29,848, 8,350 sq.yd. Lichfield Rd. $33,-300, 8,490 sq.yd. Renfrew Rd. $33,608, 8,660 sq.yd. Stratford Rd. $34,876, 6,330 sq.yd. Berkshire Rd. $25,538, 11,150 sq.yd. Chatsworth Ave. $44,633, 8,940 sq.yd. Welland Ave. $35,824, and 12,300 sq.yd. Schoenherr Rd. $48,238; to Detroit Asphalt Paving Co., 909 Transportation Bldg., 1,900 sq.yd. Lenox Ave. $8,143, 1,975 sq.yd. Lambert Ave. $9,003, 2,700 sq.yd. Larkins Ave. $11,-596, 1,965 sq.yd. Coplin Ave. $8,412, and 2,890 sq.yd. Roland Ave. $12,601; to Cleveland Trinidad Paving Co., 402 Hammond Bldg., 1,905 sq.yd. Wildemere Ave. $8,809, and 2,000 sq.yd. Tuxedo Ave. $9,069; to Cooke Asphalt Paving Co., 1260 Penobscot Bldg., 3,000 sq.yd. Dean Ave. $13,249, 4,830 sq.yd. Lawley Ave. $31,359, and 5,000 sq. yd. Halleck Ave. $21,176. Grand total $419,282.

Mich., Flint—Genesee Co., graveling 4.43 mi. A. D. Rd. 76, to Wilcox Bros., Caro, $39,927. Noted Apr. 22.

Mich., Fordson—To White Constr. Co., 1548 Buhl Bldg., Detroit, curbing, concrete paving, etc., 9,752 sq.yd. Assessment Dist. 102 $32,353, 13,071 sq.yd. Dist. 103 $42,885, 11,903 sq.yd. Dist. 104 $38,959, and 3,085 sq.yd. Dist. 105 $10,795; to M. R. Hanna Co., 2700 Six Mile Rd. E., Detroit, 8,446 sq.yd. Dist. 106 27,870, and 10,768 sq.yd. Dist. 107 $37,433. Grand total $190,295.

Mich., Grand Haven — Ottawa Co., concrete paving 3.5 mi. road, 18 ft., to Charlevoix Abstract & Eng. Co., Charlevoix, $114,647.

Mich., Grand Rapids—Kent Co. graveling 3.001 mi. Parnell-Murray Lake Rd., to E. W. Vosburg, Comstock, $25,332. Noted Apr. 15.

Mich., Pontiac — Sheet asphalt paving 13,880 sq.yd. and repairing 7,550 sq.yd. various streets, to Schaefer Thompson Co., Mt. Clemens, $54,987 and $30,460 respectively.

Ill., Harvard—Grading, curbing and 7 in. rein.-con. paving 36,000 sq.yd. various streets, to Milburn Bros., 18th and Charles Sts., Rockford.

Ill., Peoria—Bd. Local Impvts., City Hall, grading, curbing and concrete paving 6 blocks Blaine St., 30 ft., to G. H. Johnson, 520 South University St., $26,674. Engrs. est. $38,205. Noted Apr. 15.

Ill., Peoria—Grading, curbing and concrete paving 8 blocks Greenlawn Ave., 30 ft., to G. H. Johnson, 520 South University Ave., $30,538. Engrs. est. $44,482.

Ill., Rockford — Grading, curbing and warrenite paving 9 blocks North Court St., and 4 blocks Burton St., 29 ft., to Northern Illinois Supply Co., Rockford, $51,000 and $25,000 respectively. Engrs. est. $54,930 and $26,790 respectively.

Ill., Rockford—Bd. Local Impvts., City Hall, grading, curbing and Warrenite paving 9 blocks Grant Ave., 29 ft., to Northern Illinois Supply Co., Rockford, $52,000. Engrs. est. $55,470. Noted Apr. 1.

Ill., Wilmette—Concrete paving various streets and alleys, to Central Constr. Co., Chicago Heights, $29,000, and to W. Goelitz, Oak Park, $49,000. Noted Dec. 17.

Wisconsin—State Hy. Dept., Div. Office 5, La Crosse, pea graveling, etc., 5,389 cu. yd. Federal Aid Project 325-A, La Crosse Co., to A. Larson & Co., Eau Claire, $50,-125. Noted Apr. 8.

Wis., Burlington — E. R. Tischer highway comr., Racine Co., Madison, concrete paving, etc. 9,684 yd. Sects. A and B Burlington-Wilmot Ave. Rd., Racine Co., to R. R. Birdsall Constr. Co., 1025 12th St., Racine, $20,502 and $32,662 respectively. Noted Apr. 8.

Wis., Kenosha—J. Herzog, highway comr. Kenosha Co., concrete paving 18,673 sq.yd. Kenosha-Paris Rd., to L. C. Christiansen, Cambridge, $60,889. Noted Apr. 8.

Wis., Madison—W. R. Winckler, city clk., asphalt paving various streets, to J. Rasmussen Const. Co., Oshkosh, $37,780. Engrs. est. $30,000. Noted Apr. 8.

Wis., Milwaukee—Dept. Pub. Wks., concrete paving 3 alleys, to W. F. Hunt, 405 Bway., $13,492; 3 alleys, to Schwerm Bros., 50 Lee St., $5,694; 6 alleys, to F. Hildebrand, 1042 23rd Ave., $43,589; and 2 alleys to Bodemann Constr. C., 691 48th St., $19,-383. Grand total $82,158.

Wis., Racine—Com. Racine Co., concrete paving, etc., 13,482 sq.yd. Sect. A and 9,654 sq.yd. Sect. B, Burlington-Wilmot Ave. Rd., Job 2663, to R. R. Birdsall, Racine, $32,663 and $20,503 respectively.

Ia., Allison—Butler Co., to Shirley-Caldwell Co., Omaha, Neb., improving Federal Aid Project 274, 54,197 cu.yd. excav. at $0.249 per cu.yd., 144 ft. 15 in. culvert labor $0.30, 96 ft. 18 in. $0.35, and 240 ft. 24 in. $0.40.

Ia., Carroll—Carroll Co., to Northwestern Gravel Co., 4000 Royal Union Life Bldg., Des Moines, improving various roads, 5,000 cu.yd. gravel at $0.59½ per cu.yd., 39,500 units overhaul ½ mi. haul $0.68, and to J. H. Heldt, Everey, surfacing at $0.32 per sq.yd.

Ia., Charles City — Floyd Co., to A. M. Russell & Sons, New Hampton, improving Project 19, 8,660 cu.yd. excav. at $0.275 per cu.yd., 100 ft. 15 in. and 20 ft. 18 in. culvert pipe at $0.35 per ft.; to W. R. Garland, New Hampton, improving Project 6, 14,500 cu.yd. excav., $0.294 per cu.yd., 208 ft. 15 in. culvert labor at $0.25 per ft., 84 ft. 18 in. $0.35 and 80 ft. 21 in. $0.45.

Ia., Council Bluffs—Pottawattamie Co., to E. J. Wilson, Omaha, Neb., improving Federal Aid Project 280, 116,583 cu.yd. excav. at $0.17 per cu.yd., 100 cu.yd. loose rock excav. $0.75, 100 cu.yd. solid rock excav. $1.50, 128 ft. 15 in. culvert pipe labor $0.60, 32 ft. 18 in. $0.70, and 128 ft. 30 in. $1.

Ia., New Hampton—Chickasaw Co., to C. R. Thompson, Shellock, improving Federal Aid Project 76, 2,519 cu.yd. excav. 1 mi. haul at $0.38 per cu.yd., 12,500 units 0.5 mi. haul $0.08, and 1,000 cu.yd. stripping $0.18, also Federal Aid Project 160, 5,532 cu.yd. gravel 1 mi. haul $0.38, 13,750 units 0.5 mi. haul $0.08, and 20 cu.yd. stripping $0.18.

Ia., Northwood—Worth Co., to L. O. Kimball, Clear Lake, improving Federal Aid Project 268-A, 13,149 cu.yd. excav. 1 mi. haul at $0.45 per cu.yd., 44,350 units ½ mi. haul $0.09, and Federal Aid Project 216-D, 5,962 cu.yd. gravel 1 mi. haul $0.29, 63,250 units ½ mi. haul $0.07, and 1,000 cu.yd. stripping $0.20.

Ia., West Union—Fayette Co., to W. R. Garland, New Hampton, improving Federal Aid Project 164, 13,898 cu.yd. gravel 1 mi. haul at $0.395 per cu.yd., 51,300 units 0.5 mi. haul $0.079, and 3,600 cu.yd. stripping $0.20.

Minn., Elbow Lake—Grant Co., grading, etc., 98,319 cu.yd. State Road 4, Job 2601-A, to Studer & Manion, Elbow Lake $26,907, and 97,117 cu.yd. State Rd. 15, Job 2602, to H. M. Nelson, Chokio, $26,540. Noted Apr. 1.

Minn., Ely—A. O. Knutson, city clk., vibrolithic paving approximately 8,200 sq.yd. various streets, to C. A. Johnson & Carlson, Virginia, Minn., $33,879. Noted Mar. 25.

Minn., Grand Rapids — T. Erskine, aud. Itasca Co., grading, etc., 22 mi. Marcell-Craigville Rd., to R. Whitmas, Bovey, $97,-309. Noted Mar. 25.

Minn., Moorhead — Concrete paving 13 blocks 11th St. between 4th Ave. S. and 9th Ave., N., to S. Birch & Sons Co., Fargo, N. D., $61,335.

Neb., Wolbach—Rein.-con. paving 8,920 sq.yd. various streets, to Yant Constr. Co., 813 Omaha Natl. Bank Bldg., Omaha. Engrs. est. $39,200.

North Dakota — State Hy. Dept., Bismarck, **(F. A. P. means Federal Aid Project)**, grading, etc. 9.756 mi. F.A.P. 220-B, Slope Co., to Shelp & Malloy, Lemmon, S. D. $24,391, 6.447 mi. F.A.P. 276-B, Grant Co., to W. L. Chapin & Son, McIntosh, S. D. $19,434, and 0.139 mi. F.A.P. 243-C, Adams Co., to J. H. Howard, Marmarth $3,693; concrete paving, etc. 9.756 mi. F.A.P. 220-B, Slope Co., to J. J. Rue & Sons, Bismarck $10,052, and 6.447 mi. F.A.P. 276-B, Grant Co., to Fargo Bridge & Iron Co., Fargo $3,310; also constructing overhead crossing on 0.139 mi. F.A.P. 243-C, Adams Co., to Milwaukee R.R. on force account basis. Noted Apr. 1 and Apr. 29.

Mo., Kansas City — Applying 3,000,000 gal. road oil on various strets, to G. Ross, 720 New York Life Bldg., at $0.0749 per gal.

Mo., Liberty — Improving Morse Ave., 1,591 cu.yd. excav., 5,090 sq.yd. concrete paving, etc., also Missouri Ave., 865 cu.yd. excav., 5,100 sq.yd. concrete paving, etc., to Staunton Field, Liberty, approximately $29,000.

Mo., Platte City—City Clerk, amiesite on rolled rock paving 23,375 sq.yd. various streets, to Phoenix Constr. Co., Dwight Bldg., Kansas City, $26,989. Engrs. est. $26,000. Noted Apr. 8.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, brick paving, etc. 5,660 sq.yd. Magnolia Ave., to Eyermann Constr. Co., 1216 South Grand Blvd. $32,356, and 3,215 sq.yd. Beacon St., to Skrainka Constr. Co., Security Bldg. $19,094; warrenite bitulithic concrete paving, etc. 3,265 sq.yd. Childress Ave. and 3,435 sq.yd. Geraldine St., to Granite Bituminous Paving Co., Ry. Exch. Bldg., $18,596 and $20,150 respectively; asphaltic concrete paving, etc. 2,400 sq.yd. Tennessee St., to C. A. Moreno, Syndicate Trust Bldg., $24,237; asphalt paving, etc. 2,515 sq.yd. Euclid Ave., to Bridges Asphalt Paving Co., Buder Bldg., $15,703; and widening Franklin Ave. between High and Jefferson Sts., to Blackburn Cream Constr. Co., Chouteau Trust Bldg., $127,-637. Grand total $237,623.

Mo., Stewartsville—For 6 and 7 in. concrete paving 9,354 sq.yd. various streets, to C. H. Atkinson Paving Co., Stewartsville. Noted Apr. 22.

Tex., Abilene—Warrenite bitulithic on 5 in. concrete paving Pecan St. from 4th to 9th Sts., to West Texas Constr. Co., Abilene, $2.91 per yd.

Tex., Big Springs—C. E. Thomas, mayor, grading, curbing, guttering and 2 in. Uvalde rock on 5 in. concrete paving 45,000 sq.yd. various streets, to General Constr. Co., Cotton Exch. Bldg., Ft. Worth, $124,650. Engrs. est. $130,000. Noted Apr. 8.

Tex., Brownsville—Cameron Co., grading and bridging 24.412 mi. Highway 100, Point Isabel-Barreda Rd., to Armstrong & Armstrong, 505 Houston Bldg., San Antonio, $60,269.

Tex., Clarendon—For 3 in. brick on 4 in. concrete paving 23 blocks various streets, to Panhandle Constr. Co., Lubbock, $165,000. Noted Apr. 8.

Tex., Floydada—Curbing, guttering and 2½ in. brick on 4 in. concrete paving various streets, to E. W. Baker, 1st Natl. Bank Bldg., Oklahoma City, Okla., $88,072. Noted Apr. 1.

Tex., Ft. Worth — Warrenite bitulithic paving various streets, to West Texas Constr. Co., Cotton Exch. Bldg., $200,482.

Tex., Hallettsville — Lavaca Co., double bituminous surface treatment on 8 in. waterbond macadam paving 14.23 mi. Highway 72, Federal Aid Project 373-B, 18 ft., to Smith-Boyette Co., Bryan, $272,012.

Tex., Huntsville — Grading and bridging 17.27 mi. Highway 45, State Aid Project 664-B, to Smith-Boyette Co., Bryan, $74,-016. Noted Apr. 15.

Tex., Miles—For 2½ in. brick on 5 in. concrete paving 13,700 yd. various streets, to Panhandle Constr. Co., Lubbock, $42,000. Noted Mar. 25.

Tex., Waco—For 2 in. asphaltic concrete on 6 in. concrete paving 6 blocks various streets, to Standard Paving Co., c/o Provident Bldg., Waco, $2.72 per yd. Noted Jan. 7.

Okla., Wewoka — Grading and concrete paving 17 blocks various residential streets, in Street Impvt. Dist. 5, 18 to 40 ft., to Dougherty, Nicholas & Wiggins, Herskowitz Bldg., Oklahoma City, $70,530. Engrs. est. $74,450.

Arizona—W. C. Lefebvre, highway engr., Phoenix, improving Yuma-Gila Bend Highway, Federal Aid Project 82-B, to K. Hodgman, Oakland, Calif., $257,919; Phoenix-Prescott Highway, Federal Aid Project 84-A, to R. H. Martin, Tucson, $25,882, for State Hy. Dept. Noted Mar. 18 and Mar. 25.

Washington—State Hy. Dept., Olympia, **(F.A.P. means Federal Aid Project and S.R. means State Road)**, concrete paving etc., 55,111 sq.yd. S.R. 2, F.A.P. 149-A, Chelan Co., to C. L. La Plant & Co., Sedro-Woolley $149,442, and 72,000 sq.yd. S.R. 5, F.A.P. 159-A, Pierce Co., to Albertson, Cornell Bros. & Walsh, 1113½ A St., Tacoma $221,355; grading 12.17 mi. S.R. 3, F.A.P. 154-A, Ferry Co., to R. L. Reed, Jerome, Idaho, $93,079; and crushed rock surfacing, etc., 6,300 cu.yd. S.R. 8, Klickitat Co., to H. W. Anderson, 311 California Bldg., Tacoma, $10,295. Grand total $475,171. Noted Apr. 1.

Wash., Kelso—Grading and graveling Permanent Highway 12, Cloverdale Rd., to J. Weeks, Kelso, $27,054. Engrs. est. $33,000. Noted Apr. 8.

Wash., Longview — Paving end present paving on California Way to bridge approach, L. I. D. 19, to Longview Dredging & Constr. Co., Longview, $104,312.

Wash., Ritzville—Adams Co., 7 mi. Permanent Highway 7, to Triangle Constr. Co., Spokane, $25,000.

Wash., Seattle—Paving etc. 14th Ave. et al., to J. B. Covello, 1510 16th St. South,

Streets and Roads (Continued)

$186,052; and 32nd Ave. N. W., to F. M. Badolato, Box 561, $106,717.

Wash., Seattle—Bd. Pub. Wks., grading 30th Ave. S. et al, to Dowell Constr. Co., Securities Bldg. $28,072, and 19th Ave. S. W. et al, to Wilburn & Stone, Henry Bldg., $37,455; also paving Fuhrman Ave. et al, to Moceri Bros., 924 23rd Ave., $51,-653. Grand total $117,180.

Wash., South Bend—Comrs. Pacific Co., grading, etc., Permanent Highway 13 between Raymond and South Fork, to S. L. Dennis, Raymond, $36,680. Engrs. est. $38,485.

Wash., Wenatchee—Chelan Co., crushed rock surfacing 2.6 mi. Wenatchee-Chelan Highway, Permanent Highway 20, to Goodfellow, Bros., Wenatchee, $29,906. Engrs. est. $35,000.

California—State Hy. Dept., Sacramento, grading, surfacing, etc., 4.5 mi. road between Dog Creek and Lamoine, Shasta Co., to Pollock Co., Forum Bldg., Sacramento, $272,598; concrete shoulders and asphalt surfacing 7.8 mi. road from Modesto to Stanislaus River, Stanislaus Co., to Valley Paving & Constr. Co., Visalia, $163,481; and concrete shoulders on 2.1 mi. road from Borden to Madera, Madera Co., to Hanrahan Co., Standard Oil Bldg., San Francisco, $18,735. Grand total $454,814. Noted Apr. 1 and 8.

Calif., Chico—I. R. Morrison, city clk., grading, walks, guttering, concrete curbing, 1½ in. on 3½ in. asphaltic concrete surfacing, etc. portions of 7th St., etc., to Chico Contg. Co., Chico, $173,038. Noted Apr. 22.

Calif., Culver City—Sidewalks, curbing and Warrenite paving portion Washington Blvd., to Warren Constr. Co., 2221 East 25th St., Los Angeles, $90,857.

Calif., Long Beach — Curbing, guttering and 8 in. asphalt paving, etc., West 7th St., to Sully-Miller Co., 1500 West 7th St., $52,678.

Calif., San Diego — Common Council, curbing, sidewalks, and 4 in. Warrenite paving, etc. 143,565 sq.ft. Arch St., Monroe and Meade Aves., to Griffith Co., 25 14th St., $38,373. Noted Apr. 15.

Calif., San Diego—Common Council, curbing, sidewalks and asphaltic concrete paving, etc., 120,551 sq.ft. Oregon St., to R. E. Hazard Contg. Co., 2548 Kettner Blvd., $29,507; 149,996 sq.ft. Dale St., to Griffith Co., 25 14th St., $36,005; also 227,367 sq.ft. Collier Ave., Arizona St., etc., to G. R. Daley, 4430 Boundary St., $61,496. Grand total $127,008. Noted Apr. 29.

Calif., San Diego — Bd. Supervs. San Diego Co., to H. H. Peterson, Spreckels Bldg., improving Julian Rd. 3-A, 18,307 cu. yd. 5 in. concrete paving at $12.73 per cu. yd., 29,905 cu.yd. grading $0.65, 9,081 lin. ft. concrete curbing $0.25, etc., total $271,-211. Noted Apr. 8.

Calif., San Mateo—E. W. Foster, city clk., grading and concrete shoulders, etc. on El Camino Real, to Hanrahan Co., Standard Oil Bldg., San Francisco, $38,435. Noted Apr. 22.

Calif., San Rafael—Supervs. Marion Co., grading and 5 in. asphaltic concrete paving, etc. Point San Pedro Rd., also 4 in. asphaltic concrete paving Santa Venitia Rd., both in Marion co., to Pacific States Constr. Co., Call Bldg., San Francisco, $23,879 and $23,307 respectively. Noted Apr. 1.

Calif., Santa Barbara—Curbing, guttering, 2 in. asphaltic concrete on 6 in. concrete paving 231,061 sq.ft. Chapala St. between Anapamu and Monticeto Sts., to G. A. Simpson, Victory Bldg., Burbank, $134,896. Noted Oct. 29.

Calif., Santa Rosa—Supervs. Sonoma Co., grading and 5 in. Willite asphaltic concrete paving 260,386 sq.ft. Petaluma-Sonoma Rd., to Teichert & Sons, 1846 37th St., Sacramento, $65,540. Noted Apr. 29.

Alberta — J. D. Robertson, deputy minister Dept. Pub. Wks., Edmonton, paving Project 1 Sects. D-3 and D-2, to F. Mannix, Calgary, $44,832; Project 6, Sect. A-Sub 2, to Russell & McLeod, Lethbridge, $15,359; and Project 3, Sect. A-Sub 4, to Dodge & McDonald, Lethbridge, $15,336. Grand total $75,547.

Alta., Calgary — Concrete sidewalks on various streets, to G. B. Wood Cartage Co., Ltd., Calgary. Engrs. est. $39,000.

B. C., Golden — W. H. Sutherland, minister Pub. Wks., Provincial Government, Victoria, clearing, grading and graveling 7½ mi. Golden-Yoho Park Highway, to Dawson, Wade & Co., Bekins Bldg., Vancouver, $78,859. Noted Apr. 8.

B. C., South Vancouver — Municipality will pave, gravel and concrete sidewalks on various streets, by day labor. $198,000. E. D. Todd, Municipal Hall, engr.

B. C., West Vancouver—Widening and asphalt macadam paving 2 blocks Marine Dr., to Cotton Co., Ltd., False Creek, Vancouver. Engrs. est. $33,000.

Buildings—Commercial

Proposed Work

Me., Portland — CHEMICAL LABORATORY, etc. — Schlotterbeck & Foss, 36 Brown St., plans 5 story and basement, chemical laboratory and manufacturing building, brick and steel. $200,000. Private plans.

Massachusetts—JAIL—Comrs. Middlesex Co., (Cambridge), A. Cutting, chn., plans jail. $800,000 appropriation asked for. Engineer and architect not selected.

Mass., Arlington (br. Boston)—HOSPITAL — Symmes Arlington Hospital plans brick and steel addition, Arlington Heights. $150,000. Engineer and architect not selected.

Mass., Arlington—POLICE HEADQUARTERS—Town, A. W. Lombard chn. com., having preliminary plans prepared by C. B. Dunham, 6 Beacon St., Boston, 2 story and basement, rein.-con., brick and stone, North Central St. $150,000 or more.

Mass., Brookline (br. Boston)—GARAGE —Henderson & Ross, 209 Washington St., Boston, having preliminary sketches made by H. F. Kellogg, 278 Stuart St., Boston, 3 story and basement, rein.-con., John, Pleasant and Waldo Sts., Coolidge Corner. $500,000.

Mass., Cambridge (Boston P. O.) — STORE and APARTMENT—Hunter Market Co., 79 Concord Ave., plans 3 or more story and basement, brick, Huron Ave. $150,000 or more. Engineer and architect not selected.

Mass., Cohasset—TOWN HALL—Town, D. W. Gilbert, chn. com., plans 2 story and basement, brick and stone town hall. $150,-000. Engineer and architect not selected.

Mass., East Boston (sta. Boston) — THEATRE, STORE and OFFICE—Owner, c/o J. A. Tuck, archt., Park Sq. Bldg., Boston, having plans prepared 3 story and basement, 100 x 150 ft., brick and steel, plain foundation, Maverick Sq., here. $400,000.

Mass., East Cambridge—(mail Boston)—REGISTRY of DEEDS—Comrs. Middlesex Co. A. Cutting, chn., plans brick registry of deeds building addition. $240,000. Engineer and architect not selected.

Mass., Lexington — BANK — Lexington Trust Co., E. G. Preston, pres., Massachusetts Ave., plans 2 story, rein.-con., brick and stone, Massachusetts Ave. and Muzzey St. $150,000. Engineer and architect not selected.

Mass., Webster—OFFICE—See "Buildings—Educational, Religious."

Mass., Worcester — THEATRE — Owner, c/o City Central Corp., 209 Washington St., Boston purchased site and plans theatre, 3,500 seating capacity, 564-568 Main and High Sts. To exceed $150,000.

N. Y., Far Rockaway—STORE and OFFICE—Meltzer, Silverman & Perlman, c/o G. and E. Blum, engrs. and archts., 415 Lexington Ave., New York City, having plans prepared brick, steel and stone, plain foundation, Central Ave., here. $150,000.

N. Y., Jamaica—Y. M. C. A., 2 West 45th St., New York City, having plans prepared by G. W. Conable, engr. and archt., 46 West 24th St., New York City, brick, steel and stone, plain foundation, 90th St. and Parsons Blvd., here. $600,000.

N. Y., New York—APARTMENT—Three Hundred Thirty-Seven West 21st St. Corp., c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., making plans 6 story, brick and stone, plain foundation, Tinton Ave. $155,000.

N. Y., New York—APARTMENT—A. Nass, c/o Seelig & Finkelstein, engrs. and archts., 44 Court St., Brooklyn, having plans prepared brick, steel and stone, plain foundation, West 197th St., here. $350,000.

N. Y., New York—APARTMENT—Rupal Realty Co., I. Schwab, pres., 391 East 149th St., having plans prepared by C. Shaefer, Jr., engr. and archt., 148th St. and 3rd Ave., 6 story, brick, steel and stone, plain foundation, Riverside Dr., $250,000; also plans by Seelig & Finkelstein, engrs. and archts., 44 Court St., Brooklyn, 6 story, brick, steel and stone, plain foundation, Sedgwick Ave., here. $350,000.

N. Y., New York—CLUB and HOTEL—Cinema Club of America, Inc., D. R. Hockrich, pres., c/o H. C. Severence, engr. and archt., 25 Bway., soon takes bids 22 story, brick, steel and stone, plain foundation, 150 West 59th St. $4,000,000. Noted Mar. 18.

N. Y., New York—HOTEL—Peter Cooper Lexington Corp., c/o R. Candela, engr. and archt., 200 West 72nd St., having plans prepared 15 story, brick, steel and stone, plain foundation, Lexington Ave. and 39th St. $900,000.

N. Y., New York—Y. W. C. A., [illegible] East 52nd St., having plans prepared by F. Y. Joannes, engr. and archt., 247 Park Ave., 8 story, brick, steel and stone, plain foundation, 208 East 77th St. $300,000.

N. Y., Ridgewood (sta. Brooklyn)—EXCHANGE—New York Telephone Co., [illegible] Dey St., soon takes bids 3 story, brick, steel and stone addition, plain foundation, Gates Ave. McKenzie, Voorhies & Cornelin, 342 Madison Ave., New York City, engrs. and archts.

N. J., Atlantic City — HOTEL — Owner c/o W. M. Stanton, archt., 1524 Chestnut St., Phila., Pa., had plans prepared and soon takes bids 18 story and basement, 88 x 150 ft., rein.-con., brick and steel, wood pile foundation, Virginia Ave. and Boardwalk.

N. J., Trenton—STORE—F. W. Donnelly & Son, 18 South Broad St., having plans prepared by W. A. Klemann, 1st Natl. Bank Bldg., 3 story, 55 x 80 ft., brick and steel, Broad and Hanover Sts. $300,000.

Pa., Clearfield—COURT HOUSE—Clearfield Co. plans court house. Engineer and architect not selected. Address A. R. Chaes, chn. com.

Pa., Norristown — Y. M. C. A. having plans prepared by Thomas, Martin & Kirkpatrick, 220 South 16th St., Phila., for addition to Y. M. C. A. $150,000.

Pa., Phila. — ASYLUM — St. Magdalen Asylum, Penn and Chew Sts., having plans prepared by F. V. Nickels, 15 South 21st St., for House of Good Shepard, 3 story and basement, 40 x 100 ft., rein.-con., stone and steel, plain foundation, Penn and Chew Sts.

Pa., Phila. — STORE — Ritter & Shay, archts., Packard Bldg., rejected bids Apr. 7, and preparing revised plans 10 story and basement, 23 x 200 ft. store, 929 Market St., for H. C. Kahn & Son, 11th and Filbert Sts. Noted Apr. 8.

Md., Baltimore—OFFICE—Civic Centre Realty Co., 404 St. Paul St., having plans prepared by L. R. White, Hearst Tower, 18 story and basement, 72 x 100 ft., brick and steel, plain foundation, Calvert and Lexington Sts. $1,250,000.

N. C., Durham—THEATRE and OFFICE —Durham Amusement Co., soon takes bids 10 story and basement, West Main St.

N. C., Hendersonville—HOTEL—J. Wells plans 8 story and basement, 228 room, 4th Ave. and Church St. $1,000,000.

N. C., Raleigh—ASYLUM—State plans rebuilding portion main building of Central Hospital for Insane, Dix Hill, here, recently destroyed by fire. $400,000. C. C. Hook, Trust Bldg., Charlotte, archt.

N. C., Wilson — BANK and OFFICE — First Natl. Bank, plans 8 story and basement, Nash St. $400,000. J. Bruton, Wilson, pres.

Ga., Atlanta—CITY HALL—City having preliminary plans prepared by A. Ten Eyck Brown, 720 Forsyth Bldg., 15 story and basement, 165 x 165 ft. with 75 x 75 ft. tower, rein.-con., steel and tile, concrete pile foundation. $1,000,000. Noted Apr. 8.

Fla., Crystal River — HOTEL — W. F. Miller, J. S. Salten, et al, purchased site and plan 6 story hotel, Bway. and Crystal St. $300,000.

Fla., Ft. Lauderdale—COURTHOUSE—Broward Co. having plans prepared by J. M. Peluman, Ft. Lauderdale, court house, Valentine and 2nd Sts. $600,000. Noted May 21.

Fla., Ft. Lauderdale—HOSPITAL—City purchased site and plans hospital. $250,000.

Fla., West Palm Beach—AUDITORIUM —Voted $175,000 bonds, auditorium. C. A. Bingham, city mgr.

Ala., Birmingham — OFFICE — Viaduct Realty Co. of Birmingham, having plans prepared by C. McCauley, Jackson Bldg., 3 story top addition, 1st Ave. and 21st St. $250,000. Birmingham Electric Co., 2100 1st Ave., J. S. Pever, genl. mgr., lessee.

Miss., Biloxi — HOTEL — Dorries Hotel Co. incorporated with K. E. Dorries, L. Brown and C. R. Matthes, all Biloxi, and plans apartment hotel on Mississippi Coast.

La., New Orleans — TEMPLE — Temple Sinai Congregation, J. Bloom, chn. building com., 1845 Tchoupotoulos St., having plans prepared by E. Weil, Inc., Whitney Bldg., M. H. Goldstein, Hibernia Bldg., and Weiss & Dreyfous, Maison Blanche Bldg., for temple, St. Charles and Calhoun Sts. $250,000.

O., Akron—APARTMENT—L. Grieser, Bowery and Main Sts., had plans prepared by L. R. Walker, 1900 Euclid Bldg., Cleveland, 4 story and basement, 103 x 113 ft., brick and timber apartment. $250,000.

O., Canton—GARAGE and STORAGE—Ohio Power Co., 301 Cleveland Ave. S. W., takes bids about May 28, 2 story, brick and concrete, Savanah Ave. and 2nd St. S. W. $150,000.

Buildings—Commercial (Continued)

O., Cleveland—APARTMENT—Co-Operative Apartment Co., c/o K. I. Best & E. G. Hoefler, archts., Keith Bldg., having preliminary plans prepared 6 story and basement, 100 x 150 ft., brick and concrete, Lake Ave. $400,000.

O., Cleveland—APARTMENT—A. Rothenberg & B. Bialosky, 2163 Ontario St., having plans prepared by M. Weis, 1836 Euclid Ave., 3 story and basement, 60 x 130 ft., brick and timber, Cornell Rd. $200,000.

O., Hamilton—HOTEL—Hamilton Hotel Co., having plans prepared by F. G. Mueller, Rentschler Bldg., 8 story, brick and rein.-con., High and Monument Sts. $600,000.

O., Massillon—HOTEL—Ohio Savings & Trust Co., plans 10 story and basement, brick and steel, Mill and Plum Sts. $300,-

Ind., Attica—HOTEL—Mudlavia Hotel Co., Mudlavia, having plans prepared by Buckley & Skidmore, Hammond, brick and steel hotel in Mudlavia, near here. $175,000.

Ind., Decatur—THEATRE—Natl. Theaters, Inc., Associates Bldg., South Bend, had plans prepared by R. B. Williamson, 405 Bway., Milwaukee, Wis., 2 story and basement, brick, terra cotta and concrete, here. $150,000.

Ind., Gary—BANK—Gary State Bank, 5th Ave. and Bway., having plans prepared by Ivar, Viehe, Naess Co., 400 North Michigan Ave., Chicago, Ill., brick and rein.-con. bank. $400,000.

Ind., Huntington — LODGE — Masonic Lodge had plans prepared by R. W. Stevens, Huntington, 2 story and basement, 70 x 100 ft., brick and steel lodge. $155,000.

Ind., Woodmere (mail Evansville)—HOSPITAL—Indiana Hospital for Insane, C. E. McLaughlin, supt., having preliminary plans prepared by Shopbell, Fowler & Thole, Evansville, hospital addition. $300,000.

Mich., Detroit—BANK—Federal Reserve Bank of Chicago, Ill., (Detroit Branch), J. W. Staley, member building com., 1040 Harvard Ave., having plans prepared by E. H. Burnham & Co., 160 North La Salle St., Chicago, Ill., 4 story and basement, rein.-con., brick and steel, Fort and Shelby Sts. $600,000.

Mich., Escanaba — HOSPITAL — Third Order of St. Francis, Peoria, Ill., having plans prepared by G. Arntzen, Escanaba, 4 story and basement, rein.-con. and brick addition, plain foundation, here. $200,000.

Mich., St. Clair Flats (Algonac P. O.)—CLUBHOUSE—Old Club F. H. Robinson, 8905 East Jefferson Ave., Detroit, having plans prepared by Smith, Hinchman & Grylls, 800 Marquette Bldg., Detroit, 3 or 4 story, rein.-con. and brick, clubhouse here. $300,000.

Ill., Belleville—HOSPITAL—C. H. Starke, et al, 7 South Church St., having preliminary plans prepared 100 bed, concrete, brick and stone hospital. $500,000.

Ill., Chicago—APARTMENT—C. W. Morris, 111 West Washington St., had plans prepared by Hooper & Janusch, 879 North State St., and takes bids about May 12, 16 story and basement, 50 x 140 ft., rein.-con., brick and steel, Cass St. and Delaware Pl. $1,750,000. Noted Feb. 4.

Ill., Chicago—STORE and APARTMENT—E. P. Steinberg, archt., 360 North Michigan Ave., prepared plans and soon takes bids 3 story and basement, 75 x 105 ft., brick and terra cotta, Mohawk and North Aves., for M. Spear, 519 West North Ave. $150,000.

Ill., Chicago — THEATRE, STORE and APARTMENT — C. Andrews, et al, 2555 Lawrence Ave., plans 3 story, 198 x 250 ft., brick and terra cotta, West Madison St. between Elgin and Harlem Aves. $1,500,000. Engineer and architect not selected.

Ill., Chicago—THEATRE, HOTEL and STORE—Amer. Amusement Co., 160 North La Salle St., having plans prepared by J. Eberson, 212 East Ontario St., and takes bids in May or June, 7 story and basement, 125 x 250 ft., rein.-con., steel, brick and terra cotta, North Ave. $2,800,000.

Ill., Taylorsville—HOSPITAL—St. Vincent Hospital plans hospital additions. $150,000. Engineer and architect not selected.

Ill., Waukegan — THEATRE — Natl. Theatres Inc., Associates Bldg., South Bend, Ind., having plans prepared by R. B. Williams, 405 Bway., Milwaukee, Wis., 2 story and basement, rein.-con., brick and terra cotta, plain foundation. $150,000.

Wis., Beloit — BANK — Beloit Savings Bank, 119 Grand Ave., having plans prepared by W. G. Uffendell, 39 South State St., Chicago, Ill., 2 story and basement, brick, stone and concrete, plain foundation, North State. $150,000. Noted Dec. 31.

Wis., Fond du Lac—HOTEL—M. Tullgren & Sons, archts., 9 Waverly Pl., Milwaukee, rejected bids Feb. 8, 8 story and basement, brick and concrete addition to Retlaw Hotel, plain foundation, here, for Hotel Wisconsin Realty Co., 86 Michigan St., Milwaukee. $200,000. Will readvertise. Noted Feb. 4.

Wis., Green Bay—HOTEL—M. Tullgren & Sons, archts., 9 Waverly Pl., Milwaukee, rejected bids Feb. 8, 8 story and basement, brick and concrete addition to Hotel Northland, here, for Hotel Wisconsin Realty Co., 86 Michigan St., Milwaukee. $200,000. Will readvertise. Noted Feb. 4.

Wis., Kenosha — THEATRE — Dayton Bros. having plans prepared by Armstrong & White, 200 East Erie St., pressed brick, terra cotta and steel theatr,e 1,700 seating capacity. $500,000.

Wis., Milwaukee—THEATRE—Muskego Advancement Assn., 834 Muskego Ave., plans 2 story and basement, rein.-con. and brick, plain foundation, Muskego Ave. $150,000. Engineer and architect not selected.

Wis., Milwaukee—THEATRE and BUSINESS—E. A. Meyer, archt., 2703 Lisbon Ave., making plans 3 story and basement, 100 x 128 ft., brick and concrete, plain foundation, Southside. $150,000. Owner's name withheld.

Wis., Oshkosh—THEATRE and BUSINESS—Saxe Amusement Enterprises, 530 Grand Ave., Milwaukee, having plans prepared by Foltz & Co., 510 North Dearborn Ave., Milwaukee, 2 story and basement, rein.-con., brick and terra cotta, plain foundation, Main St. $600,000.

Wis., Pine Lake—HOTEL—Pine Lake Hotel Co., E. Nussbaum, 464 Menlo Blvd., Milwaukee, having preliminary plans prepared by Clas, Shepherd & Clas., 445 Milwaukee St., Milwaukee, for hotel. $200,000.

Wis., Racine—APARTMENT—T. Carney, c/o Armstrong & White, archts., Pub. Serv. Bldg., Kenosha, having plans prepared 3 story and basement, brick and concrete, plain foundation, here. $300,000.

Ia., Newton—OFFICE and THEATRE—H. Raeder, archt., 20 West Jackson Blvd., Chicago, Ill., preparing plans and takes bids about May 15, 5 story and basement, 66 x 134 ft., rein.-con., brick and terra cotta, here, for F. L. Maytag, Newton. $300,000. Noted Mar. 25.

Minn., Duluth — HOSPITAL — Starin & Melander, archts., 5 Sherwood Bldg., soon lets contract 2 story and basement, 125 x 186 ft., rein.-con., brick, terra cotta and steel, concrete pile foundation, Grand Ave., for E. S. Webber, Missabe Hospital, Proctor. $200,000.

S. D., Watertown — COURT HOUSE — Coddington Co. having preliminary plans prepared by W. E. Hulse & Co., Stamey Hotel, Hutchinson, Kan., brick and stone court house. $500,000. Noted Apr. 15.

Mo., Kansas City — COURT HOUSE — Election in June, $500,000 bonds, court house. Engineer and architect not selected.

Mo., Kansas City—HOTEL—W. D. Snyder, 618 Commerce Bldg., having plans prepared by P. T. Drotts, 300 Reliance Bldg., 8 story and basement, 55 x 120 ft., rein.-con., brick and terra cotta hotel. To exceed $150,000.

Mo., St. Louis—APARTMENT—Joyner Realty Co., c/o H. R. Weisels Co., 730 Chestnut St., having preliminary plans prepared 8 story and basement, rein.-con., brick and terra cotta apartment in Cabanne Dist. $500,000. Private plans.

Mo., St. Louis—APARTMENT—Missouri Realty & Constr. Co., 6117 Page Blvd. ,having preliminary plans prepared 7 story and basement, 60 x 180 ft., rein.-con., brick and terra cotta, West Pine St. $500,000. Private plans.

Tex., Corpus Christi—HOTEL—Syndicate, c/o J. E. Garrett, Corpus Christi, made preliminary plans 10 story, rein.-con. and brick hotel, plain foundation. $400,000. Engineer and architect selected soon.

Tex., Mineral Wells — HOTEL — Mineral Wells Hotel Co., c/o A. E. Eaton, plans 12 story and basement, 250 room, rein.-con., brick and stone, plain foundation, North East 1st Ave. and Hubbard St. $1,000,000.

Tex., Texarkana — CITY HALL and AUDITORIUM — City having plans prepared by Witt, Seibert & Halsey, 807 Texarkana Natl. Bank bldg., 2 story and basement, rein.-con., brick and stone, East 3rd and Walnut Sts. $225,000.

Tex., Waco—HOTEL—O. H. Cross, plans 12 story, 200 room, brick, stone and rein.-con., 5th and Franklin Sts. $700,000. Engineer and architect not selected. C. M. Hildon, Hildon Hotel, and H. Sigel, Waldorf Hotel, Dallas, lessees.

Okla., McAlester—COURTHOUSE—Pittsburg Co. election May 25, $200,000 bonds 2 story and basement court house, Main St. A. Evans, co. clk. Engineer and architect not selected. Noted Aug. 20.

Okla., Oklahoma City—OFFICE—W. R. Ramsey, Security Bldg., having preliminary plans prepared 18 story and basement, 50 x 140 ft. rein.-con. and steel, plain foundation, Robinson St. Engineer and architect not selected.

Okla., Oklahoma City—WAREHOUSE—J. B. Rolater, Shops Bldg., had plans prepared 3 story and basement, 140 x 150 ft., rein.-con. and brick, plain foundation, 6th St. $160,000. Engineer and architect not announced.

Colo., Denver — MAUSOLEUM — Olinger Corp., 1429 Champa St., having plans prepared by C. A. Smith, 800 Finance Bldg., Kansas City, Mo., Mausoleum containing 3,000 crypts and family rooms, Crown Hill Cemetery. $800,000.

Wash., Seattle—HOSPITAL—Norwegian Hospital Assn. plans 4 story, brick and terra cotta, 35th St. and Woodland Park Ave. $200,000-$250,000. T. P. Bugge, 6408 Phinney Ave., chn. building com.

Ore., North Bend—APARTMENT—W. R. Robertson had plans prepared by De Young & Roald, Spalding Bldg., Portland, and soon takes bids 4 story, 80 x 100 ft., rein.-con., brick and terra cotta apartment. $150,000.

Ore., Portland—THEATRE and STORE—De Young & Roald, archts., Spalding Bldg., preparing plans 2 story, 100 x 200 ft., rein.-con. and stone, 41st, 42nd and Belmont Sts. $150,000. Owner's name withheld.

Calif., Alameda — LODGE — Masonic Orders of Alameda, had plans prepared by E. J. Symmes, 1st Natl. Bank Bldg., San Francisco, 2 story, rein.-con. and steel, Park St. and Central Ave. $150,000.

Calif., Glendale—BANK and OFFICE—Warehouse Realty Co., 108 West Bway., had preliminary plans prepared by Dodd & Richards, 905 Brack-Shops Bldg., Los Angeles, 6 story, 50 x 150 ft., Brand St. and Bway. $150,000.

Calif., Long Beach—WAREHOUSE, etc.—Long Beach Terminal Warehouse Co., having plans prepared by E. H. Cline, Petroleum Security Bldg., Los Angeles, 3 and 6 story, rein.-con. warehouse and cold storage building, Water St. To exceed $150,000.

Calif., Los Angeles—APARTMENT—W. Bruce, archt., Pacific Natl. Bank Bldg., preparing preliminary plans 5 story and basement, 80 x 140 ft., brick or concrete, 46th St. $150,000. Owner's name withheld.

Calif., Los Angeles—BANK and OFFICE—Security Trust & Savings Bank, 502 South Spring St., having plans prepared by Parkinson & Parkinson, Title Insurance Bldg., 12 story, on 150 x 230 ft. site, 7th St. and Grand Ave.

Calif., Los Angeles—BANK and OFFICE—R. L. Kent, 239½ South Brand Blvd., having preliminary plans prepared by Walker & Eisen, 756 South Spring St., 8 story and basement, 50 x 120 ft., Brand Blvd.

Calif., Los Angeles—BANK and OFFICE—Warehouse Realty Co., 108 West Bway., Glendale, having plans prepared by Dodd & Richards, Brack-Shops Bldg., 6 story and basement, 50 x 150 ft., Class "A," Brand and Bway. Sts.

Calif., Los Angeles — BATH HOUSE — W. G. English, Chapman Bldg., had plans prepared by A. Hesse, Union Oil Bldg., 2 story and basement, 135 x 213 ft., brick, Gordon St. and Sunset Blvd.

Calif., Los Angeles—CLUB HOUSE, etc.—California Club, S. M. Haskins, pres., 453 South Hill St., having preliminary plans prepared by R. D. Farquhar, Security Bldg., 10 to 12 story, on 180 x 330 ft. site, Hope St. Noted Mar. 18.

Calif., Los Angeles — HOTEL, etc. — T. Coskey, et al, having plans prepared by A. LeBrun Co., 5401 Hollywood Bldg., 5 story, brick, incl. plunge and club rooms, Loma Dr. $150,000 or more.

Calif., Los Angeles — STORE and OFFICE—W. W. Paden, et al, Hollingsworth Bldg., having plans prepared by L. L. Smith, City Club Bldg., 12 story and basement, 60 x 170 ft., rein.-con., Olive St.

Calif., Los Angeles—THEATRE—H. L. Gumbiner, 402 Hellman Bank Bldg., having sketches made by S. C. Lee, 530 Pet. Sec. Bldg., probably 3 story, 50 x 150 ft., rein.-con., 8th St. and Bway. $250,000.

Calif., Oakland — APARTMENT — M. Roden, c/o W. Lewis, archt., 525 Market

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Buildings—Commercial (Continued)

St., San Francisco, having plans prepared 3 story and basement, brick and timber facing Lake Merritt. $150,000.

Calif., Oakland — STORE — Whitehorn & Swan, 1103 Washington St., plans 3 story, rein.-con. addition, Washington St. $200,000. W. Knowles, Hearst Bldg., San Francisco, archt.

Calif., Sacramento — STORE — Eastern Outfitting Co., 1017 Market St., San Francisco, had plans prepared by Starks & Flanders, Ochsner Bldg., Sacramento, 2 story, rein.-con., J St. $150,000. Noted Feb. 4.

Calif., San Francisco — APARTMENT — C. F. Low, c/o Farr & Ward, archts., 68 Post St., had plans prepared 5 story and basement, concrete and steel, Powell and Washington Sts. $150,000.

Calif., San Francisco—APARTMENT—Stock, Maas & Sauer, 251 Kearny St., had plans prepared by J. C. Hladik, Monadnock Bldg., 4 story and basement, brick, Clay St. near Van Ness Ave. $150,000.

Calif., San Francisco—STORE—H. Seigler, 110 Sutter St., having plans prepared by S. Heiman, 57 Post St., 30 stores, 1 story, rein.-con., Sloat Blvd. $175,000.

Calif., Santa Monica — BANK, STORE and OFFICE—Mutual Shares Properties, Inc., 221 Santa Monica Blvd., having plans prepared by J. M. Cooper, Rives-Strong Bldg., Los Angeles, 12 story and basement, 100 x 150 ft., rein.-con., 3rd St. $750,000.

Que., Montreal—OFFICE—I. M. Pangman, 670 Sherbrooke St. W., soon takes bids 11 story, 75 x 147 ft. rein.-con. and steel, Catherine and Stanley Sts., for St. Catherine-Stanley Realty Corp.

Que., Three Rivers—OFFICE—Canadian International Paper Co., had plans prepared rein.-con., brick and steel office building. Asselin & Denoncourt, Three Rivers, archts. $200,000.

B. C., Vancouver — HOSPITAL — Vancouver General Hospital Bd., General Hospital, plans hospital addition. $500,000. Engineer and architect not selected.

Man., Winnipeg — HOSPITAL — St. Josephs Hospital, Pritchard and Salter Sts., having plans prepared by E. Parkinson, 601 Commercial Bldg., 3 story and basement, 44 x 104 ft., rein.-con. and brick, Pritchard and Salter Sts. $170,000.

Alta., Edmonton—HOTEL—R. A. Noble, Royal George Hotel, soon takes bids hotel. $250,000.

Bids Desired

Me., Portland—APARTMENT—See "Contracts Awarded."

N. H., Rochester—STORE, OFFICE and APARTMENT—Rochester Realty Co., c/o Dow, Harlow & Kimball, archts., 184 Boylston St., Boston, Mass., taking bids 3 story and basement, rein.-con., brick, limestone, incl. power plant, Hanson, Wakefield and Autumn Sts., here. To exceed $150,000.

Mass., Bridgewater—THEATRE—A. A. Glick, 53 Broad St., taking bids 1 story and basement, rein.-con., brick and steel theatre. $150,000. G. N. Jacobs, 4 Park St., Boston, archt.

Mass., Chicopee—STORE, THEATRE and OFFICE—R. L. Choiffetz, 510 Main St., Springfield, taking bids 2 story and basement, 95 x 135 ft., rein.-con., brick and steel theatre, store and office building. $175,000. J. A. Tuck, Park Sq. Bldg., Boston, archt.

Mass., Danvers—OFFICE and STORE—See "Contracts Awarded."

Mass., Lynn — BANK — Commonwealth Savings Bank, 345 Union St., E. L. Boyer, pres., taking bids 2 story and basement, 40 x 100 ft., rein.-con., brick and steel, plain foundation, 500 Washington St. $150,000. G. A. Cornet, 10 Central Ave., archt. Noted Apr. 8.

N. Y., Central Islip—HOSPITAL, etc.—May 19, by State Hospital Comn., Albany, constructing Group H, dining room, tile floors, etc., at Central Islip State Hospital, here; adv. E. N.-R. May 6.

N. Y., New York — APARTMENT — See "Contracts Awarded."

N. Y., Rochester — WAREHOUSE and STORAGE—B. F. Kelly, archt., 841 Ellicott Sq., Buffalo, taking bids 5 story and basement, rein.-con. and brick, plain foundation, 72 Clinton Ave., for F. E. West, 722 South Clinton Ave. $150,000.

N. Y., Yonkers—BATH HOUSE—May 19, at office Westchester County Park Comrs., 72 West Pondfield Rd., Bronxville, bath house at Tibbetts Brook Park, here. J. Downer, ch. engr.; adv. E. N.-R. May 6.

Pa., Lansdowne—STORE and OFFICE—May 10, by W. H. Lee, archt., Schaff Bldg., Phila., 1 story and basement, 90 x 220 ft., rein.-con., brick and steel, plain foundation, Lansdowne Ave. and Baltimore Pike, for P. Harrison, Brynmawr. $200,000.

Pa., Phila.—APARTMENTS—See "Contracts Awarded."

Pa., Phila. — CITY HALL — May 19, by G. H. Biles, dir. Pub. Wks., City Hall, 15 story, basement and sub-basement, 100 x 246 ft., steel, limestone and granite annex, Juniper, Filbert, 13th and Commerce Sts., $3,100,000, or alternate 100 x 171 ft., granite, limestone and brick annex, $2,000,000. P. H. Johnson, Widener Bldg., archt. Noted July 10, 1924.

Pa., Phila.—SALES—May 10, by L. P. Kimball, engr. Buildings of Baltimore & Ohio R.R. Co., Baltimore, Md., 2 story, 114 x 1,026 ft., rein.-con. auction sales building, Delaware Ave. and Jackson St., here, for Baltimore & Ohio R.R. Co., H. A. Lane, ch. engr., Baltimore, Md., and Reading Co., T. S. Wagner, ch. engr., Reading Terminal Bldg.

Pa., Williamsport—GARAGE—May 15, by Williamsport Buick Co., 405-11 West 3rd St., 3 story and basement, 116 x 149 ft., rein.-con., brick and steel, West 3rd St. $150,000.

La., New Orleans—HOSPITAL—May 17, by Andre & Feitel, archts., Carondelet Bldg., 2 story addition to Soniat Mercy Hospital, Annunciation St. between Thalia and Melpome Sts. $225,000. Noted Apr. 29.

O., Cleveland—POLICE STATION and GARAGE—May 7, by City, W. R. Hopkins, mgr., 1 and 3 story, 80 x 85 x 120 ft., brick, steel and concrete, East 35th St. $150,000. H. Kregelius, 604 City Hall, archt. Noted Mar. 11.

O., Cleveland—THEATRES—Playhouse Foundation, c/o C. S. Brooks, pres., 729 Cedar Ave., taking bids 1 and 3 story, 125 x 150 ft., brick, steel and concrete, East 86th St. $200,000. P. L. Small & C. B. Rowley, 1836 Euclid Ave., archts.

Ind., Gary—WAREHOUSE—Gary Heat, Light & Water Co., taking bids 3 story, 125 x 125 ft., brick, steel and rein.-con. warehouse. $200,000. G. W. Maher & Son, 157 East Erie St., Chicago, Ill., archts.

Ind., Indianapolis—WAREHOUSE—Terminal Warehouse Co., A. Metzger, pres., Georgia and Penn Sts., taking bids 1 story, brick and rein.-con. warehouse. $300,000. Rubush & Hunter, 430 Amer. Central Life Bldg., archts.

Mich., Mason—JAIL, etc.—May 14, by Bowd & Munson, 409 Wilson Bldg., Lansing, 3 story and basement, rein.-con., brick and steel, jail and residence, plain foundation, here, for Ingham Co. $150,000.

Wis., Rhinelander — HOTEL — Oppenhamer & Obel, archts., Nicollet Bldg., Green Bay, taking bids 3 story and basement, 62 x 103 ft., brick and concrete addition, here, for C. E. Blodgett, Central Ave., Marshfield. $150,000. Noted Apr. 29.

Mo., St. Louis — APARTMENT — See "Contracts Awarded."

Tex., Dallas — APARTMENT — A. F. Korn, Jr., archt., 816 Thomas Bldg., Dallas, taking bids 3 story 80 x 120 ft., brick, Gaston and Washington Sts., for D. L. Biddison, c/o architect. $155,000.

Tex., Kerrville—HOTEL—See "Contracts Awarded."

Okla., Okemah—COURT HOUSE—May 15, by J. R. Day, clk. Okfusgee Co., 4 story and basement, 70 x 90 ft., rein.-con. and brick, plain foundation, Atlanta St. $150,000. Layton, Hicks & Forsythe, Baniff Bldg., Oklahoma City, archts. Noted July 7.

Calif., Los Angeles—MERCANTILE—Ralpho Grocery Co., 926 West 7th St., taking bids 2 story, 150 x 200 ft., mercantile building, 7th Ave. and Washington St. $150,000. Morgan, Walls & Clements, 1135 Van Nuys Bldg., archts.

Calif., San Fernando — BANK, STORE, OFFICE and HOTEL—Bank of San Fernando taking bids 2 and 3 story, 100 x 100 ft., Porter Ave. and Brand Blvd. $150,000. Walker & Eisen, 701 Great Republic Life Bldg., Los Angeles, archts. Noted Dec. 17.

Calif., Santa Monica—CLUB and STORE—C. H. Russell Co., archts., Story Bldg., Los Angeles, taking bids 5 story and basement, 81 x 200 ft., rein.-con. and brick, Main St. and Pier Ave., for B. P. O. E., Santa Monica Lodge. $250,000 or more. Noted Dec. 17.

Bids Received

N. J., Cape May — COURTHOUSE — Bd. Freeholders Cape May Co., Apr. 21, 1 and 2 story and basement, 43 x 142 ft., 50 x 103 ft. and 48 x 103 ft., brick and steel, plain foundation, from Bennett & McLaughlin Co., 3260 Ludlow St., Phila., Pa., $152,640. Noted Apr. 15.

Wis., Winnebago—HOSPITAL—State Bd. Control, A. W. Bagley, secy., State Capitol, Madison, general contract 2 rein.-con., brick and steel buildings, plain foundation, from Appleton Constr. Co., I. O. O. F. Bldg., Appleton $123,254. Noted Apr. 29.

Tex., San Antonio — COURTHOUSE — Phelps & DeWees, engrs. and archts., Gunter Bldg., and E. I. Jackson & G. Willis, archts., c/o Builders Exch. Bldg., remodeling 5 story and basement, 90 x 160 ft., rein.-con., brick, tile and stone annex, plain foundation, Main Plaza, from C. S. Schoenfeld, 324 Hunstock Ave., for Bexar Co. Noted Apr. 1.

Contracts Awarded

Me., Portland — APARTMENT — S. Oscher, 30 Water St., will build 4 story and basement, 70 apartments, brick and stone, Congress St., by day labor. To exceed $200,000. W. W. Rhodes, 574 Congress St., archt.

Mass., Boston — APARTMENT — The Madison, Inc., 763 Massachusetts Ave., Cambridge, 10 story and basement, 50 x 150 ft., brick, limestone, and steel, plain foundation, 172-174 Beacon St., here, to M. W. Ryan, 763 Massachusetts Ave., Cambridge. Archts. est. $750,000.

Mass., Danvers—OFFICE and STORE—N. Eisenberg, 40 Cottage St., Chelsea, will build 2 story and basement, 133 x 135 ft., brick and stone, plain foundation, Elm and High Sts. Work will be done by separate contracts. $200,000. S. S. Eisenberg, 46 Cornhill, Boston, archt.

Mass., East Walpole—STORAGE—Bird & Son, Inc., 3 story and basement, 75 x 260 ft., rein.-con., brick and steel, plain foundation, to J. Gascoigne & Co., Inc., 6 Beacon St., Boston. Archts. est. $150,000.

Conn., Bristol — WAREHOUSE — E. Ingraham Co., 392 Main St., 5 story, 80 x 125 ft., rein.-con., brick and steel, plain foundation, to Torrington Building Co., 182 Church St., Torrington. Archts. est. $200,000. Noted Apr. 15.

Conn., Manchester — TEMPLE—Masonic Building Assn., 2 story and basement, brick and steel, East Center St., to Manchester Constr. Co., 875 Main St. Archts. est. $150,000.

Conn., New Haven—BANK—G. Franco & Sons, 127 Columbus Ave., 4 story, 62 x 65 ft., brick and steel, to Sola & Bounpane, 209 Clay Ave. Archts. est. $150,000. Noted Apr. 1.

Conn., New London—APARTMENT and STORE—C. E. Schall, 849 Pequot Ave., will build 2 story, brick and steel, Montauk Ave. $150,000. Work will be done by separate contracts. Bilderbeck & Langdon, State St., archts. Noted Feb. 4.

N. Y., Lockport—Y. M. C. A., 19 East Ave., 196 x 200 ft., brick, steel and stone, plain foundation, to Laur & Mack, Niagara Falls. Archts. est. $500,000. Noted Apr. 8.

N. Y., New York—APARTMENT—Billig Constr. Corp., c/o C. Kreymborg & Son, engrs. and archts., 2534 Marion Ave., will build 6 story, brick, steel and stone, plain foundation, 169th and Shakespeare Sts., by day labor. $255,000.

N. J., Cape May C. H.—COURTHOUSE—Cape May Co., 2 story and basement, 48 x 103 ft., 1 story and basement each 50 x 103 ft., and 48 x 103 ft., brick and steel, to Bennett M. Laughlin Co., 3260 Ludlow St., Phila., Pa., $152,640. Noted Apr. 15.

N. J., Salem—BANK—T. E. Ash, archt., 1012 Walnut St., Phila., Pa., 1 and 3 story and basement, 50 x 100 ft., rein.-con. and stone, plain foundation, here, to H. J. Dodge, 223 Broad St., Elmer, for Salem Natl. Bank & Trust Co. Archts. est. $150,000. Noted Apr. 1.

Pa., Allentown—HOTEL—Lehigh Hotel Corp., c/o Kaeppel & Kester, 6th and Linden Sts., Lehigh Hotel, 9 story and basement, 98 x 145 ft., rein.-con., brick and steel, plain foundation, to Consolidated Eng. Co., Franklin and St. Paul Sts., Baltimore, Md. Archts. est. $800,000. Former contract rescinded. Noted Dec. 10.

Pa., Allentown—HOTEL—Lehigh Hotel Co., c/o W. H. Lee, archts., 1505 Race St., Phila., 10 story and basement, 65 x 145 ft., brick and steel, plain foundation to Consolidated Eng. Co., 20 East Franklin St., Baltimore, Md., $400,000.

Pa., Huntington — BANK — First Natl. Bank, general contract 2 story and basement bank building, to J. W. Wickersham, Lancaster. Archts. est. $150,000.

Pa., Latrobe — BANK — Peoples Natl. Bank, general contract 2 story and basement, 50 x 100 ft. bank, to W. J. Stevens, Inc., Wyncotte (near Phila.) Archts. est. $150,000.

Buildings—Commercial (Continued)

Pa., Phila.—APARTMENTS—S. Elgart, 4713 Chester Ave., will build 4 story and basement, 110 x 111 ft. apartment, 48th and Osage Sts., $300,000, also 4 or 8 story and basement, 100 x 160 ft. apartment, Pine St. between 44th and 45th Sts., both brick and steel, plain foundations. Work will be done by separate contracts. Private plans.

Pa., Phila. — EXHIBITION — Swedish Amer. Sesquicentennial Assn., 1103 Walnut St., John Morton Memorial, 2 story and basement, 44 x 150 ft., and 18 x 31 ft., brick, steel and stucco, plain foundation, League Island Park, to G. W. Wagoner, 909 South 25th St. Archts. est. $150,000.

Pa., Phila.—STORE—L. B. Rothschild, archt., 211 South Broad St., 2 story and basement, 76 x 156 ft., rein.-con., brick and steel, plain foundation, 16th and Market Sts., to Wark Co., 1600 Walnut St., for Heyman Bros., 215 Broad St. Archts. est. $250,000. Noted Apr. 15.

Pa., Upper Darby (br. Phila.) — CLUB HOUSE — Lulu Bemple Country Club, c/o P. H. Johnson, archt., Widener Bldg., Phila., 2.5 story and basement, 79 x 168 ft., steel and stucco, plain foundation, Limekiln Pike, to H. J. Wehmeyer, 509 West Cumberland St., Phila. Archts. est. $150,000.

N. C., Raleigh—HOTEL—State Hotel Co., 8 story and basement, 140 room, brick, limestone, terra cotta and steel, Dawson St., to [illegible] York, Citizens Bank Bldg., Raleigh. Archts. est. $500,000. Noted Apr. 8.

Fla., Orlando—COURT HOUSE—Orange Co., [illegible] story, 98 x 212 ft. courthouse, Main St. [illegible] A. Bentley & Sons Constr. Co., [illegible]ville, $525,000.

[illegible], Sarasota—HOTEL and RESTAURANT—H. Task, St. Petersburg, and New York City, hotel and restaurant, adjoining Mira Mar, here, to Northern Constr. Co., Sarasota, $150,000.

Ala., Anniston—BANK, STORE and OFFICE—L. B. Liles, et al, 10 story, 75 x 100 ft., rein.-con. and steel, to A. J. Krebs, Walton Bldg., Atlanta, Ga., $350,000. Noted Mar. 25.

O., Akron—HOTEL—Noah & Frank, associated archts., Akron, Apr. 23, addition to Portage Hotel, Main and Market Sts., to H. P. Moran Constr. Co., Terminal Bldg., for Portage Hotels Co. $188,500. Noted Mar. 25.

O., Cleveland — AUDITORIUM, STORE and OFFICE—Shooenian Workmans Home Co., 15322 Waterloo Rd., 2 story and basement, 65 x 150 ft., brick, Waterloo Rd., to Sattkovich Bros., 6411 St. Clair Ave. Archts. est. $150,000.

O., Cleveland—SALES and SERVICE—Studebaker Corp. of America, E. R. Parker, sales mgr., 2000 Euclid Ave., 1 story and basement, 105 x 194 ft., brick and rein.-con., West 17th St., to P. Kirschner Co., 2914 East 75th St. Archts. est. $150,000. Noted Mar. 18.

O., Mansfield—HOTEL—Richland Hotel Co., c/o W. B. Marlin, chn. building com., 7 story and basement, 90 x 130 ft., brick, steel and concrete, to Van Blarcom Co., Natl. City Bldg., Cleveland. Archts. est. $600,000. Noted Mar. 25.

O., Salem — LODGE — Elks Home Co., brick and stone, McKinley Ave. east of Vine St., to Boldt Constr. Co., Salem, $152,000. Noted Feb. 18.

O., Warren — COMMERCIAL and APARTMENT — J. A. Reeves, 1201 Mahoning Ave., 6 story and basement, 44 x 170 ft., brick and steel, to J. Buchert & Sons, 100 East Rayen St., Youngstown. Archts. est. $250,000.

Ind., Indianapolis—CHEMICAL LABORATORY — Swan-Myers Co., 219 North Senate St., general contract 4 story and basement, 66 x 128 ft. chemical laboratory, to J. G. Karstedt Co., 2430 North Delaware St. Archts. est. $150,000. Noted Apr. 22.

Mich., Detroit—THEATRE—Le Win Development Co., 1002 Hoffman Bldg., 2 and 3 story and basement, rein.-con., brick and steel, plain foundation, Linwood Ave., to H. G. Christman Co., 315 Stevens Bldg. Archts. est. $700,000.

Mich., Ludington — THEATRE — Fitzpatrick & Hawley, 3 story and basement, 55 x 165 ft., rein.-con. and brick, to Foltz & Co., 510 North Dearborn St., Chicago, Ill. Archts. est. $150,000.

Mich., Saginaw—HOSPITAL—St. Marys Hospital, Saginaw, general contract 6 story and basement, 100 x 100 ft., rein.-con., brick and steel, to Hutter Constr. Co., Fond du Lac, Wis. Archts. est. $350,000.

Ill., Chicago — STORE, OFFICE and APARTMENT—G. F. Nord, 2926 East 79th St., masonry contract 4 story, 87 x 132 ft., fireproof, 79th and Escanaba Aves., to A. and E. Anderson, 19 South La Salle St. Archts. est. $175,000.

Ill., Chicago — THEATRE, STORE and OFFICE — E. P. Steinberg, archt., 360 North Michigan Ave., masonry and carpentry contract 3 story and basement, 175 x 180 ft., rein.-con., brick, steel and terra cotta, wood pile foundation, Cicero and Belmont Sts., to J. A. Lundstrum & Co., 1107 Addison St., for Lubliner & Trinz, 307 North Michigan Ave. (a subsidiary of Balaban & Katz Corp., 175 North State St.) Archts. est. $600,000. Noted Oct. 1.

Wis., Hudson—HOTEL—Hudson Hotel Co., L. N. Brooker, pres., 2 story and basement, 110x118 ft., rein.-con., brick and steel, plain foundation, to MacDonald Builders Co., Builders Exch., Minneapolis, Minn. Noted Jan. 28.

Wis., Richland Center—HOTEL—Park Hotel, C. A. Hoachim, proprietor, 4 story and basement, 60x150 ft., rein.-con., brick and steel, plain foundation, to F. J. Kolman, Richland Center. Noted Mar. 11.

Neb., Omaha — THEATRE and RESTAURANT — M. B. Griffin, 1107 1st Natl. Bank Bldg., general contract 1 story, 132 x 167 ft. theatre, and 1 story, 40 x 100 ft. restaurant, both brick, stone, marble, terra cotta and rein.-con., 20th and Farnam Sts., to Seldon-Breck Constr. Co., 205 Arthur Bldg.

Mo., St. Louis—APARTMENT—Wagner-Grant-Bell Realty Co., International Life Bldg., will build 14 story and basement, 125 x 125 ft., rein.-con., brick, stone and terra cotta, Skinker and Rosebury Sts. $1,000,000. Work will be done by separate contracts under supervision P. J. Bradshaw, archt., International Life Bldg. Noted Aug. 20, 1925.

Tex., Kerrville—HOTEL—R. L. Burney, 928 North Flores St., San Antonio, will build 5 story and basement, rein.-con., brick and stone, plain foundation. Work will be done by separate contracts. $200,000. Private plans. Noted Mar. 4.

Calif., Anaheim—HOTEL and STAGE DEPOT—Pickwick Stage Corp., 2 story, brick, Chestnut St., to Wilson & Bever, Anaheim, $150,250.

Calif., Los Angeles—HOSPITAL—Good Samaritan Hospital, 1243 Wilshire Blvd., 10 story and basement, rein.-con., Shatto St., to Scofield Eng. Co., 1100 Pacific Finance Bldg., approximately $1,215,000. Noted Sept. 10.

Calif., Los Angeles—STORE and LOFT—M. R. Gray Co., c/o Morgan, Walls & Clements, Van Nuys Bldg., 5 story and basemen,t 65 x 130 ft., rein.-con., South Los Angeles St., to J. M. Cooper, Rives-Strong Bldg., $150,000. Noted Mar. 25.

Calif., Marysville—NATATORIUM—City Trustees, general contract concrete natatorium, to H. W. Robertson, 2633 6th Ave., Sacramento, $36,965. Noted Mar. 18 under "Unclassified."

Calif., Marysville—STORE and OFFICE—Hart Bros., 520 K St., Sacramento, 7 story, rein.-con., 4th St., to G. D. Hudnutt, 1915 S St., Sacramento, $155,000. Noted Oct. 29.

Calif., Oakland — WAREHOUSE and CARGO — Parr Terminal Co., 1 Drumm St., San Francisco, 1 story, concrete to Cahill Bros., Call Bldg., San Francisco, $150,000. Noted Apr. 22.

Calif., Sacramento—STORE and OFFICE—L. E. Morris, 900 1st Natl. Bank Bldg., San Francisco, 3 story and basement, rein.-con., North J. St., to Industrial Constr. Co., 815 Bryant St., San Francisco, approximately $260,000.

Calif., San Diego — THEATRE, STORE, LOFT and OFFICE—Kass & Rubin, Bank of Italy Bldg., Los Angeles, 8 story, 40 x 100 ft., steel frame and 2 story, 100 x 160 ft., brick C St., to Edwards, Wildey & Dixon, Edwards-Wildey Bldg., Los Angeles, cost plus percentage basis. Noted Jan. 28.

Calif., San Francisco — APARTMENT — C. F. Low, c/o Farr & Ward, archts., 68 Post St., 5 story and basement, concrete and steel, Powell and Washington Sts., to J. Del Favero & Co., 180 Jessie St., $153,250.

Calif., San Francisco—HOSPITAL—St. Marys Hospital, 5 story, rein.-con. annex, to Barrett & Hilp, 918 Harrison St., approximately $650,000. Noted Apr. 22.

Calif., Watsonville — HOTEL — Resetar Bros., 5 story and basement, 600 room, rein.-con., Lake and Main Sts., to A. Johnson Co., 74 New Montgomery St., San Francisco, $184,500. Noted Apr. 1.

Buildings—Industrial

Proposed Work

N. H., Rochester—POWER PLANT—See "Buildings—Commercial."

Mass., Charlestown (sta. Boston)—FACTORY — W. F. Schraff & Sons Corp., 16 Washington St., Boston, having preliminary sketches made by Lockwood, Greene & Co., 24 Federal St., Boston, 2 or more story, rein.-con. and brick addition, Sullivan Sq., here. $40,000 or more.

Conn., Norwalk — FACTORY — Closter Mfg. Co., Main St., having plans prepared by Davis & Dane, 1024 Main St., Bridgeport, 2 story, 40 x 85 ft., brick and steel addition, Main St. $40,000.

Conn., Wallingford—FACTORY—W. A. Ives Mfg. Co., Cherry St., plans rebuilding factory, Cherry St., recently destroyed by fire. To exceed $40,000. Engineer and architect not selected.

N. Y., Creedmoor (mail Floral Park) — LAUNDRY — State appropriated $150,000, constructing laundry at Creedmoor Div., Brooklyn State Hospital, here.

N. J., Riverton—MOTOR FACTORY—Motor Equipment Corp., 2216 Chestnut St., Phila., Pa., plans motor factory, here, $70,000. Engineer and architect not selected.

Pa., Phila.—FACTORY—C. E. Johnson Co., 10th and Lombard Sts., having plans prepared by E. G. Perrot, 1211 Arch St., 1 and 3 story and basement, 62 x 92 ft., stucco and steel, plain foundation, Swanson and Porter Sts.

Pa., Titusville—DAIRY PLANT—Titusville Dairy Products Co., having plans prepared by Brazeell & Anderson, 309 4th Ave., Pittsburgh, 1 and 2 story, 27 x 34 ft. and 38 x 60 ft., brick, hollow tile and steel plant. $40,000.

Pa., Wilkes-Barre—SILK MILL—Newark Silk Co., Inc., Paterson, N. J., having plans prepared by G. C. Jacobosky, consult. engr., Jacobosky Bldg., 2 story and part basement, 63 x 171 ft. silk mill, concrete, brick and steel, here.

N. C., Winston-Salem—CHAIR FACTORY—Winston-Salem Chair Co., plans factory, Claremont Ave. $150,000.

Fla., Sarasota — PIPE PLANT — Shearman Concrete Pipe Co., Burwell Bldg., Knoxville, Tenn., plans concrete pipe plant, here. $50,000.

Fla., Tampa—BAKERY—Tri-City Baking Co., 203 Franklin St. purchased site and plans bakery, West Shore Blvd. and Longfellow Ave., Sunset Park. $125,000.

Ala., Muscle Shoals—POWER PLANT, etc.—Mississippi Power Co., Gulfport, Miss. (subsidiary of Southeastern Power & Light Co., etc.), T. M. Martin, pres., B. M. Bldg., Birmingham, plans power plant and dam on Tennessee River at Alabama-Mississippi boundary line, near here, $20,000,000, also 693 main power transmission lines, etc.

Miss., Biloxi—COLD STORAGE WAREHOUSE — Commonwealth Utilities Corp., R. R. Guice, genl. mgr., acquired plant of Crystal Ice Co., etc., and plans cold storage warehouse on site of same.

La., Shreveport—FACTORY—O. D. West Mfg. Co. having plans prepared by C. W. King, 901 Giddons-Lane Bldg., 2 story, rein.-con. and brick, plain foundation. $72,000.

O., Canton—MILL ADDITIONS—United Alloy Steel Corp., 8th St. N. E., soon takes bids additions to shipping building, etc. $300,000.

Ill., Chicago—MILK DEPOT—I. J. Mix Co., 361 East 30th St., having plans prepared by F. J. Teitch, 64 West Randolph St., and takes bids about June 20, 3 story and basement, 95 x 175 ft., rein.-con., brick, tile and terra cotta, 31st St. and South Park Ave. $600,000.

Ill., Robinson — OIL REFINERY — Lincoln Oil Refining Co. purchased 114 acre site adjoining present refinery and plans new buildings, 5,000 bbl. capacity, $2,500,000. J. B. Dwod, assistant supt.

Wis., Appleton—SHOP—Appleton Iron & Brass Co., A. Wiese, mgr., 1704 East John St., having plans prepared 1 story, 60 x 100 ft., rein.-con., brick and steel, plain foundation. $40,000. Private plans.

Wis., Sheboygan — FACTORY — Inland Furniture Co., T. Dieckmann, mgr., 11th and Kentucky Sts., plans rebuilding rein.-con., brick and steel factory, recently destroyed by fire. $400,000. Engineer and architect not selected.

Wis., Sheboygan—FACTORY—E. June, archt., Security Bank Bldg., making plans 2 story, 94 x 300 ft., rein.-con., brick and

Buildings—Industrial (Continued)

steel, plain foundation. $250,000. Owner's name withheld.

Kan., Kansas City — NEWSPAPER PLANT—C. E. Keyser, archt., 609 Minnesota Ave., soon lets contract 3 story and basement, 64 x 150 ft., rein.-con., brick and stone, 8th and Armstrong Sts., for Kansas City Kansan. $100,000.

Tex., Abilene — COTTON MILL, etc. — Abilene Cotton Oil Co., soon takes bids cotton mill incl. steam electric power plant, etc., brick, rein.-con. and steel. $250,000. Private plans.

Tex., Crosbyton — ICE PLANT — O. H. Hammer, Chillicothe, plans 1 story, 25 x 125 ft. brick ice plant, 15 ton capacity, here. $40,000.

Tex., Lufkin—LUMBER or SAWMILL—Bounton Lumber Co., plans sawmill in northwestern part of city. $40,000. Private plans.

Okla., Oklahoma City—POWER PLANT —Oklahoma Gas & Electric Co., 112 North Bway., plans doubling capacity Horseshoe Lake generating plant, incl. 27,500 hp. generating unit, increasing present generating capacity to 115,869 hp.

Calif., Merced—CREAMERY and POWDERED MILK PLANT—Golden State Milk Products Co., 425 Battery St., San Francisco, plans rein.-con., on State Highway near R St. $100,000.

Calif., Oakland — OIL DISTRIBUTING PLANT—Julian Petroleum Corp., Pershing Square Bldg., Los Angeles, having plans prepared oil distributing plant,, Parr Terminal. $450,000. H. Merrill Co., 1 Drumm St., San Francisco, engrs. Noted Dec. 17.

Calif., San Francisco — BOTTLING PLANT—San Francisco Seltzer Water Co., 436 Green St., plans 1 or 2 story, 103 x 107 ft., rein.-con., Pacific and Cordelia Sts. $75,000.

Ont., Belleville—PLANT—Belleville Gas & Fuel Co. Ltd., plans low temperature carbonizing plant, 300,000 cu.ft. gas container, and extending distribution system. $200,000.

Ont., Kapuskasing—PAPER MILL and POWER PLANT—Spruce Falls Power & Paper Co., c/o J. H. Black, genl. mgr., having plans prepared paper mill, 500 ton capacity newsprint daily, and erecting and equipping electric power plant. $5,000,000. Private plans.

Que., Verdun—POWER SUB-STATION—Montreal Tramways Co., 78 Craig St., Montreal, soon takes bids power sub-station, here. $250,000.

Bids Desired

Mass., Malden (br. Boston)—FACTORY, GARAGE and SHOWROOM—See "Contracts Awarded."

Mass., Readville (Ind. sta. Boston) — REPAIR SHOP, etc. — New York, New Haven & Hartford R.R., E. Gagel, ch. engr., New Haven, Conn., taking bids 1 story locomotive repair shop, sand blasting and finishing shed, brick and steel, here. To exceed $40,000. A. F. Tuttle, Sonth Station, Boston, engr.

Mass., Springfield — MANUFACTURING and OFFICE — Westinghouse Electric & Mfg. Co., taking bids 2 story, 45 x 300 ft. main building, and other building 1 and 4 story, irregular, brick. $150,000 or more. B. H. Prock, 119 Federal St., Pittsburgh, Pa., archt.

Conn., New London — SHOP — Crown Sheet Metal Wks., 186 Bank St., taking bids 2 story, 50 x 100 ft., brick and steel, Bank St. $50,000. F. De Gange, 60 Ocean Ave., archt.

Pa., Clearfield—PLANING MILL—See "Contracts Awarded."

Pa., Williamsport — VALVE PACKING PLANT—May 15, by G. M. Busch, vice pres., and J. W. Cochran, secy., Williamsport Development Co., Bridge and Elmira Sts., 1 story and part basement, 80 x 100 ft., rein.-con. and brick, Rose St. $50,000.

Miss., Biloxi—ICE PLANT—See "Contracts Awarded."

Mich., Detroit — POWER HOUSE and LAUNDRY — May 10, by Secretary Bd. Health, 1300 Beaubien St., 2 story and basement, 92 x 113 ft., rein.-con., brick and steel, plain foundation, Hamilton Ave., for Herman Kiefer Hospital. A. Kahn, 1000 Marquette Bldg., archt.

Wis., Madison—DAIRY PLANT—Madison Dairy Products Co., A. Steinhauer, mgr., 418 East Main St., taking bids rein.-con., brick and steel dairy plant, Washington St. $40,000. H. C. Huart, 2533 Gregory St., archt.

Wis., Weyauwega—BOILER HOUSE—May 11, by R. M. Hanson, secy. Com. Wapaca Co., Scandanavia, 2 and 1 story, brick and concrete addition to laundry, also brick chimney, for Insane Asylum, here. $45,000. R. Cramer, 448 27th St., Milwaukee, engr.

Kan., Kansas City — FACTORY — See "Contracts Awarded."

Mo., Versailles—SHOE FACTORY—May 10, by L. Abt, archt., Moberly, 1 story and basement, 50 x 235 ft. shoe factory, steel, here, for Chamber of Commerce. $60,000.

Ont., Fort Frances—PULP and PAPER MILL—See "Contracts Awarded."

BRIDGE—PENNSYLVANIA AND NEW JERSEY

Bids were opened by Delaware River Bridge Joint Commission, Widener Bldg., Philadelphia, for grading, paving and other work for Camden Approach to bridge over Delaware River, 5th to 7th Sts., Contr. No. 27, (A) O'Neill Co., 23rd and Spring Garden Sts., (awarded contract); (B) Union Paving Co.; (C) Acchione & Canuso; (D) Mazzola & Marano; (E) R. & J. Lombardi, contractors, all Philadelphia; Municipal Paving Co., Philadelphia, $175,168; Michael Staub, Pitman, N. J., $182,504; Baton Construction Co., Philadelphia, $187,409. The unit bids of the lowest four and highest bidders are as follows:

	A	B	C	D	E
10,500 cu.yd. excavation	$0.95	$1.00	$1.50	$1.30	$2.00
50 cu.yd. concrete masonry, grade "C"	15.00	23.00	12.50	18.00	12.00
4,700 cu.yd. concrete base for roadway paving	8.40	8.75	8.50	9.25	12.90
475 sq.yd. granite block paving, not including concrete base	5.15	6.20	6.00	6.00	7.00
21,000 sq.yd. asphalt paving, not including concrete base	2.30	2.02	2.40	2.50	2.70
7,900 sq.yd. concrete sidewalk	2.22	2.25	2.00	2.75	3.50
3,900 sq.yd. cinder surfacing	0.30	0.50	0.20	0.25	0.75
3,050 lin.ft. 8-in. straight granite curbing	3.60	4.10	3.50	3.40	5.00
210 lin.ft. 10-in. straight granite curbing	4.50	6.00	5.80	5.40	8.00
1,230 lin.ft. 8-in. curved granite curbing	4.00	5.25	4.25	3.90	6.00
110 lin.ft. 10-in. curved granite curbing	4.90	8.75	9.00	8.40	11.00
1,200 lin.ft. 8-in. concrete curbing	1.83	1.35	1.00	1.20	2.75
75 lin.ft. resetting curbing	1.00	0.60	0.75	1.00	1.00
45 lin.ft. resetting iron fence	1.15	1.15	1.00	2.00	3.00
960 lin.ft. 12-in. diameter vitrified clay pipe	2.20	3.45	3.00	4.50	7.00
300 lin.ft. 15-in. diameter vitrified clay pipe	3.00	3.75	3.50	4.50	8.00
220 lin.ft. 18-in. diameter vitrified clay pipe	4.00	4.60	3.75	5.50	10.00
80 lin.ft. 24-in. diameter vitrified clay pipe	6.00	5.75	5.00	9.00	15.00
2 No. 2 brick and stone inlets	140.00	230.00	180.00	190.00	225.00
16 No. 3 brick and stone inlets	125.00	205.00	150.00	185.00	200.00
2 special grate top inlets	150.00	40.00	180.00	200.00	25.00
6 drain taps	25.00	60.00	110.00	150.00	25.00
2,300 sq.ft. ½-in. premoulded expansion joint filler	0.18	0.46	0.20	0.25	0.30
860 sq.ft. ½-in. premoulded expansion joint filler	0.12	0.35	0.15	0.20	0.25
5,500 sq.yd. sodding	0.62	1.00	1.70	0.65	2.00
10 sq.yd. relaying brick sidewalk	2.00	1.15	1.00	1.00	1.00
10 sq.yd. relaying flagstone sidewalk	2.00	1.15	1.00	1.00	3.00
1 cu.yd. brick masonry	25.00	23.00	27.00	20.00	35.00
Extended totals	$150,460	$157,760	$164,487	$171,507	$230,210

Contracts Awarded

Mass., Cambridge (Boston P. O.) — PRINTING PLANT—Athenium Press, Ginn & Co., 1st St., 6 story, 37 x 130 ft. and 62 x 70 ft., rein.-con. and brick addition, to Scully Co., 118 1st St. Archts. est. to exceed $40,000.

Mass., Cambridge (br. Boston)—REPAIR and SERVICE GARAGE — J. A. Carrig, 1374 Massachusetts Ave., 1 story, 100 x 170 ft., brick and steel, Greene St., to Askin & Sullivan, 580 Massachusetts Ave. Archts. est. $50,000.

Mass., Malden (br. Boston)—FACTORY, GARAGE and SHOWROOM — Northern Products Co., 79 Ferry St., will build 1 story, 50 x 105 ft., and 25 x 55 ft., brick and steel, Main St. $40,000. Work will be done by separate contracts. C. F. Springall, 50 Concord St., archt.

Mass., Norfolk Downs (sta. Boston)—FACTORY — Norfolk Iron Wks., 1 story, 65 x 150 ft., rein.-con., brick and steel, to Whidden-Beekman Co., 100 Boylston St., Boston. Archts. est. $40,000.

Mass., Roxbury (sta. Boston)—REPAIR and SERVICE GARAGE—C. A. Rova, c/o A. O. Bottomley, archt., 10 Tremont St., Boston, 1 story, rein.-con., 220-226 Blue Hill Ave., here, to P. Salvi, 31 Cutter Ave., Somerville. Archts. est. $50,000.

Mass., Somerville (br. Boston) — FACTORY—E. F. Kemp, Skelton Ave., 2 and 3 story, brick addition, to A. M. Pride, 155 Summer St. Archts. est. $40,000. Noted Apr. 15.

Conn., Meriden—POWER HOUSE, etc.—W. T. Arnold, archt., Crown Sq., constructing power house, to Immick Co., Meriden, $54,673; power plant and heating, to M. J. Daly, Waterbury, $36,673; and smoke stack, to Alphons Custodis Chimney Constr. Co., 95 Nassau St., New York City, $2,055. Grand total $93,255. Noted Apr. 22.

Conn., New Britain — INDUSTRIAL — Landers, Frary & Clark, Commercial and Center Sts., 6 story and basement, 60 x 260 ft., with 60 x 60 ft. wing, rein.-con., and 2 story bridge between above buildings, to Morton C. Tuttle Co., 862 Park Sq. Bldg., Boston, Mass.

N. J., Roselle (Ind. br. Elizabeth) — PLANT—Ballinger Co., archts., 12th and Chestnut Sts., Phila., Pa., 1 story, brick, steel and stone, plain foundation, here, to Barclay White Co., 1713 Sansom St., Phila., for Rapid Addressing Machine Co., 46 West 23rd St., New York City. Noted Apr. 22.

Pa., Clearfield—PLANING MILL—Gearhart Lumber Co. will build 2 story and basement, approximately 50 x 100 ft., brick and concrete planing mill, by day labor. $50,000. Work will be done by separate contracts. Private plans.

Fla., Uceta—REPAIR SHOP—Atlantic Coast Line R.R. Co., J. E. Willoughby, ch. engr., Wilmington, N. C., brick, steel and rein.-con. locomotive repair shop, plain foundation, here, to Dwight P. Robinson Co., Inc., 125 East 46th St., New York City, N. Y. Archts. est. $1,000,000.

Miss., Biloxi—ICE PLANT—Peoples Ice Co., L. Elder, genl. mgr., will build 1 story ice plant, concrete and brick, by day labor. $50,000.

O., Ashtabula—FACTORY—Amer. Fork & Hoe Co., S. Chapin, purch. agt., B. F. Keith Bldg., Cleveland, altering 3 story and basement, 40 x 140 ft., brick, to Rice-Jones Co., Union Bldg., Cleveland. Archts. est. $40,000.

O., Cleveland—LAUNDRY—Best Laundry Serv. Co., H. Brooks, vice pres., 7914 Platt Ave., 1 and 2 story, 60 x 140 ft., brick and steel, 7914 Kinsman Rd., to Boldt Constr. Co., 1969 East 71st St. Archts. est. $50,000.

O., Springfield—FACTORY—Mast Foos & Co., Main and Isabella Sts., 1 story, 100 x 210 ft., brick and steel, Isabella St., to T. A. Graham, Shaffer and North Sts., $40,000.

Mich., Detroit—PATTERN SHOP—Detroit Stove Wks., 6900 East Jefferson Ave., 1 story, rein.-con., brick and steel, top addition, to Walbridge Alldinger Co., 2356 Penobscot Bldg. Archts. est. $50,000. Noted Mar. 18.

Mich., Flint—FACTORY—AC Spark Plug Co., 1 story, 72 x 252 ft., rein.-con. addition, to W. E. Wood Co., Flint, $80,000.

Ill., Decatur — LOCOMOTIVE REPAIR SHOPS—Wabash R.R. Co., Ry. Exch. Bldg., St. Louis, Mo., 1 story, 150 x 800 ft., 50 x 100 ft., and 100 x 100 ft., rein.-con. and brick, to Foundation Co., 120 Liberty St., New York City, N. Y. Engrs. est. $1,000,000.

Ill., Rockford — FACTORY — Mechanic Machine Co., 6 story, 80 x 140 ft., rein.-con. and steel, 9th Ave. and 18th St., to Security Building Co., 1016 Charles St. Archts. est. $175,000.

Wis., Kenosha—FOUNDRY—P. Frandsen (contractor), 1126 Sellick Ave., will build 1 story, 62 x 120 ft., brick and timber, plain foundation, Harry St. $40,000. Owner's name withheld.

Wis., Madison — PLANT — Pennsylvania Oil Co., 736 East Washington Ave., 1 story, rein.-con., brick and steel warehouse, plant

Buildings—Industrial (Continued)

and shop, to J. H. Findorff & Son, 601 West Wilson St. Archts. est. $40,000. Noted Mar. 25.

Wis., Milwaukee — FOUNDRY—Loeffelholz Co., 170 Clinton St., 1 story, 47 x 140 ft., brick and steel, plain foundation, to E. C. Knuth Co., 1331 28th St. Archts. est. $40,000. Noted Apr. 8.

Wis., Waukesha—FACTORY—Waukesha Motor Co., West St. Paul Ave., 1 story, 68 x 154 ft., brick and steel addition, plain foundation, to Wisconsin Bridge & Iron Co., North Milwaukee. Archts. est. $40,000.

Wis., Westby — PLANT — Westby Cooperative Dairy Co., H. Brendum, secy., 2 story, 66 x 88 ft., rein.-con., brick and steel, plain foundation, to P. Kramer, St. Charles, Minn. Archts. est. $40,000.

Wis., Milwaukee — LAUNDRY and POWER HOUUSE—See "Buildings—Educational, Religious."

Wis., Milwaukee—BAKERY—Natl. Baking Co., c/o Donaldson Baking Co., 391 East Moler St., Columbus, O., 3 story, 128 x 150 ft., brick and steel, plain foundation, Clybourn St., here, to H. Schmitt & Son, 14 Burleigh St., $153,115. Noted Apr. 29.

Wis., Racine—FACTORY—Modine Mfg. Co., 17th and Racine Sts., 1 story, 80 x 140 ft., and 110 x 170 ft., brick and steel addition, plain foundation, 17th St., to J. P. Welling, 811 Blaine Blvd. Archts. est. $50,000.

Wis., Two Rivers — PLANT — Hamilton Mfg. Co., 5 story, 120 x 130 ft., and 1 story, 120 x 150 ft., brick and steel, plain foundation, to Immel Constr. Co., Dana Bldg., Fond du Lac. Noted Mar. 25.

Kan., Kansas City—FACTORY—Armour & Co., Packers State Line, will build 1 story, 76 x 143 ft., rein.-con., brick and steel, by day labor. $100,000. Private plans.

N. D., Washburn — POWER PLANT — Ottertail Power Co., Fergus Falls, Minn., 12,000 hp. steam power plant, here, to Siems, Helmers & Schaffner, Inc., 514 Guardian Life Bldg., St., Minn.

Mo., Kansas City — WAREHOUSE and BAKERY — Kansas City Warehouse & Bakery, general contract 3 story and basement, 104 x 187 ft., rein.-con. and brick warehouse and bakery, to S. Patti Constr. Co., 627 Lee Bldg. Archts. est. $170,000. Atlantic & Pacific Tea Co., lessee.

Calif., Los Angeles — COLD STORAGE PLANT—Hauser Packing Co., 2300 East 9th St., 2 story, 8 x 38 x 110 x 128 ft., rein.-con., East 9th St., to C. L. Peck, H. W. Hellman Bldg., $101,560.

Calif., Oakland—FACTORY—Independent Paper Box Co., 12th and Kirkham Sts., factory addition, 12th St., to J. H. Pedgrift, 4106 Bway. Archts. est. $40,000.

Calif., Vallejo — BAG MANUFACTURING PLANT—Sperry Flour Co., 141 California St., San Francisco, 2 story, rein.-con., to G. Wagner, 181 South Park St., San Francisco.

Calif., Vernon — PACKING PLANT — Baldridge Packing Co., Inc., 3103 East Vernon Ave., Los Angeles, 2 story, 47 x 138 ft., brick, East Vernon Ave., here, to J. Allen, 1210 90th Pl., Los Angeles, to exceed $40,000.

Ont., Dundas — FACTORY — C. M. Doolittle Co., Queens St., 150 x 200 ft., rein.-con. and steel factory for manufacturing special road surface materials, to Provincial Contracting Co., Toronto. Engrs. est. $75,000.

Ont., Fort Frances—PULP and PAPER MILL — Backus-Brooks Co., 1100 Builders Exch., Minneapolis, Minn., will build 2 story and basement, 75 x 320 ft., rein.-con., brick and steel pulp and paper mill, by day labor. $1,500,000.

Buildings—Educational, Religious

Proposed Work

Me., Rumford—CHURCH and SCHOOL —St. Athanasius Parish, T. J. Mahoney, pastor, having sketches made by Rogers & Dion, 142 Berkley St., Boston, 1 and 2 story and basement, brick and stone, Maine Ave. $150,000.

Mass., Boston—CHURCH—St. Theresa's Church, c/o Maginnis & Walsh, archts., 100 Boylston St., having sketches made 1 story and basement, brick and stone, Center and Cottage Sts. $150,000 or more.

Mass., Boston—NURSES HOME—City, Hospital Dept., having plans prepared by Ritchie, Parsons & Taylor, 15 Ashburton Pl., 5 story and basement, rein.-con. and brick, plain foundation, Harrison Ave. $290,000.

Mass., Brighton (sta. Boston)—SCHOOL —City, Schoolhouse Dept., Boston, takes bids after May 3, 1 story and basement, brick and stone, Washington St. and Corey Rd., here. $150,000-$200,000. Fay, Spofford & Thorndike, 200 Devonshire St., Boston, archts.

Mass., Cambridge (Boston P. O.)—BUSINESS—Harvard College, G. A. Giles, dir., having plans prepared by J. Purdon, 50 Congress St., Boston, brick, Massachusetts Ave. and Douglas St. $200,000 or more.

Mass., New Bedford — CHURCH and PARISH HOUSE — Trinitarian Church Home, 636 Purchase St., plans 1 and 2 story, brick steel and stone, Hawthorne St. $150,000. Engineer and architect not selected.

Mass., Northampton — SCHOOL — City, School Comn., having plans prepared by K. S. Putnam, 78 Main St., 2 story and basement, 65 x 100 ft., brick and stone, Bridge St. $150,000.

Mass., Salem — HIGH SCHOOL — City, School Bd., plans 2 story and basement addition, Highland Ave. $400,000.

Mass., Taunton—SCHOOL—City, Comn. Pub. Buildings, having plans prepared by G. W. Briggs, 88 Winthrop St., 2 story and basement, brick and stone, Barnum St. $150,000.

Mass., Waban (Ind. br. Boston) — CHURCH—Union Church Society, c/o F. A. Burton, archt., 240 Boylston St., Boston, having sketches made 2 story and basement, brick, Collins Rd., here. $150,000.

Mass., Webster — HIGH SCHOOL and OFFICE—Town, J. J. Love, chn. building commission, having plans prepared by M. A. Dyer, 1 Beacon St., Boston, 3 story and basement, rein.-con., brick, stone and steel, Negus and Church Sts. $700,000.

Conn., Winsted — SCHOOL — Town, S. Clifton, chn. Board, having plans prepared by W. E. Hunt, 182 Church St., Torrington, 2 story and basement, brick and steel school. $150,000.

Conn., New Haven — HIGH SCHOOL — City, Bd. Educ., having plans prepared by Brown & Von Buren, 185 Church St., 20 room high school, Grand Ave. $225,000.

N. Y., Hudson—CHURCH—St. Marys Roman Catholic Church, J. Keefe, pastor, soon takes bids 1 story, brick, steel and stone, plain foundation, Warren St. $200,000. R. J. Reilly, 18 East 41st St., New York City, engr. and archt.

N. Y., Rochester — CHURCH and SUNDAY SCHOOL—Second Church of Christ Scientist, having plans prepared by Gordon & Kaelber, Hiram Sibley Bldg., 2 story and basement, brick and stone, Seneca Parkway. $200,000.

Pa., Wilkinsburg—SCHOOL—Bd. Educ., L. R. Hagan, having plans prepared by Alden & Harlow, Farmers Bank Bldg., Pittsburgh, 2 story and basement grade school. $200,000.

Del., Wilmington—SCHOOL and AUDITORIUM—Ursiline Nuns having plans prepared by P. A. Monaghan, 1713 Sansom Pl., 2½ story and basement, 114 x 198 ft., steel and brick, plain foundation, Penna Ave. and Franklin St.

N. C., Durham—CHURCH—First Baptist Church soon takes bids new church. $250,000. Address B. W. Rogers, chn. finance com.

N. C., High Point — CHURCH — First Presbyterian Church, C. P. Coble, pastor, having plans prepared new church, North Main St. $150,000.

N. C., Raleigh—SCHOOLS—Voted $1,300,000 bonds, new schools. H. F. Srygley, supt. schools. Noted Apr. 1.

Fla., Pensacola — SCHOOLS — Escambia Co., election May 4, $800,000 bonds, schools.

Miss., Jackson—COLLEGE—State Legislature appropriated $500,000 for chapel, dormitory and gymnasium buildings at State College for Women. H. C. Whitfield, Jackson, gov.

Miss., Oxford—CHAPEL—State Legislature appropriated $150,000 for chapel, etc. for University of Mississippi. H. L. Whitfield, Jackson, gov.

La., Homer—SCHOOL—Bd. Educ. having preliminary plans prepared by E. F. Neild, City Natl. Bank, Shreveport, 2 story, 140 x 170 ft., rein.-con. and brick, plain foundation, here. $225,000.

O., Ashtabula — SCHOOL — St. Josephs Roman Catholic Church, M. O'Brien, pastor, having sketches made by McGarry & McGarry, Cook Bldg., 4614 Prospect Ave., Cleveland, 2 story and basement, 80 x 160 ft., brick, steel and concrete school. $150,000.

O., Paris — SCHOOL — Village having plans prepared by C. J. Marr, New Philadelphia, and soon takes bids 2 story and basement school. $150,000.

Ind., Hammond—SCHOOL—Bd. School Trustees having plans prepared by M. Turner, Hammond, brick and steel school. $150,000.

Mich., Bay City — NURSES HOME — Mercy Hospital, 15th and Water Sts., having plans prepared by Van Leyen, Schilling & Keough, 3440 Cass Ave., Detroit, 2 story and basement, 108 x 130 ft., rein.-con., brick and steel, plain foundation, Water St. $150,000.

Ill., Lake Villa—HIGH SCHOOL—Community High School Dist. 124, having preliminary plans prepared 3 story, concrete, brick and stone high school. $150,000. Will not construct before spring 1927. P. Avery, pres.

Wis., Green Bay—HIGH SCHOOL. Bd. Educ., I. H. McIntire, supt. schools, receiving competitive sketches 2 story and basement, brick, tile and concrete addition, plain foundation. $200,000. Engineer and architect not selected.

Wis., Kenosha — SYNAGOGUE — Y. M. H. A., c/o Armstrong & White, archts., Pub. Serv. Bldg., having plans prepared 2 story, 66 x 125 ft., brick, tile and concrete synagogue. $150,000.

Wis., Madison — SCHOOL — Bd. Educ., T. W. Gosling, supt., 22 West Dayton St., having plans prepared by E. Tough, Washington Bldg., 2 story 60 x 100 ft., rein.-con., brick and steel, plain foundation, Monroe and Western Sts. $150,000.

Wis., Racine—AUDITORIUM, etc.—L. M. Fowler, 1015 College Ave., having plans prepared by Armstrong & White, Pub. Serv. Bldg., Kenosha, 3 story, 152 x 250 ft., brick, concrete and steel auditorium and recreation building. $500,000.

Wis., Superior—CATHEDRAL—J. J. Pinten, bishop of Superior, having plans prepared by L. Preuss, 612 Laclede Gas Bldg., St. Louis, Mo., 1 story and basement, 80 x 200 ft., rein.-con. cathedral, plain foundation. $250,000. Widmer Eng. Co., 612 Laclede Gas Bldg., St. Louis, Mo., engrs.

Neb., Lincoln—CHURCH—First Presbyterian Congregation, 703 1st Natl. Bank Bldg., had plans prepared by Cram & Ferguson, 248 Boylston St., Boston, Mass., 3 story and basement, 20 x 40 ft., and 75 x 136 ft. brick and stone church. $200,000.

Neb., Lincoln—SCHOOL—Bd. Educ., J. H. Ludlum, secy., having plans prepared by Davis & Wilson, 525 South 13th St., 2 story and basement, 65 x 150 ft., brick and stone grade school. $150,000.

Neb., Omaha—CHURCH—Central United Presbyterian Church, having plans prepared by C. W. Steinbaugh, 662 Brandeis Theatre Bldg., superstructure for church, 55th and Leavenworth Sts. Total $150,000.

Ark., Little Rock—CHURCH—Immanuel Baptist Congregation, c/o J. H. Estes, 719 Battery St., chn. building com., having preliminary plans prepared rebuilding 2 story and basement, concrete, brick and stone, 10th and Bishop Sts., recently destroyed by fire. $200,000.

Tex., Houston — CHURCH — Antioch Baptist Congregation, c/o Pastor, 318 Andrews St., having plans prepared by C. C. Balger Co., 402 Praetorian Bldg., Dallas, 3 or 4 story, 80 x 149 ft., rein.-con., brick and stone church. $150,000.

Tex., Houston—SCHOOL—Bd. Educ., H. L. Mills, bus. mgr., 1600 Washington Ave., having plans prepared by J. Finger, archt., 711 Keystone Bldg., and H. B. Payne, superv. archt., 1600 Washington St., 2 story, 15 room, rein.-con., brick and tile, plain foundation, Fullerton St. $150,000.

Tex., Texarkana—COLLEGE—Bd. Educ., having plans prepared by Witt, Seibert & Halsey, 807 Texarkana Natl. Bank Bldg., Junior College, 2 story, 90 x 160 ft., rein.-con., brick and stone, plain foundation. $150,000.

Okla., Chickasha—CHURCH—First Presbyterian Church, had plans prepared by Sorey & Valberg, 718 Braniff Bldg., Oklahoma City, 2 story and basement, brick, plain foundation, 7th St. $150,000.

Colo., Greeley—GYMNASIUM—Colorado State Teachers College having plans prepared by W. N. Bowman, Insurance Bldg., Denver, 150 x 250 ft., brick and rein.-con. gymnasium. $250,000.

Colo., Greeley—HIGH SCHOOL—School Dist. having plans prepared by W. N. Bowman, Insurance Bldg., Denver, associated with S. G. Frazier, Greeley, 3 story, brick and rein.-con. high school. $300,000.

Wash., Seattle—SOCIAL CENTER, etc. —University of Washington having plans prepared by Bebb & Gould, Hoge Bldg., for social center and students union building, $1,000,000; and auditorium, 9,000 to 10,000 seating capacity, $500,000, both on campus.

Calif., Berkeley—CHURCH—First Congregational Church having plans prepared by H. G. Simpson, Call Bldg., San Francisco, (2nd and 3rd units) incl. parsonage, social hall, etc., Bancroft Way. $150,000.

Calif., Long Beach—HIGH SCHOOL, etc. —St. Anthony School and Roman Catholic Bishop of Los Angeles and San Diego having preliminary plans prepared by T. F. Power, 2615 West 7th St., Los Angeles,

Buildings—Educational, Religious (Cont.)

rein.-con. high school and auditorium, here. To exceed $150,000.

Calif., Pasadena — HIGH SCHOOL — Pasadena City School Dist., having plans prepared by F. Kennedy, Jr., 15 South El Molina St., fireproof, East Blanche St. To exceed $150,000.

Que., Three Rivers—SCHOOL—City having plans prepared by Asselin & Denonemet, Three Rivers, 3 story, 100 x 100 ft., rein.-con., brick and steel, St. Oliver St. $150,000.

Bids Desired

Mass., Cambridge (Boston P. O.) — CHAPEL and PARISH HOUSE—First Congregational Church, R. Calkins, pastor, 90 Berkeley St., taking bids 2 story and basement, 90 x 110 ft., brick and stone, plain foundation, Mason St. $150,000. W. H. McLean, 88 Tremont St., Boston, archt.

Mass., Gardner—HIGH SCHOOL—City, Bd. Educ., taking bids 2 story and basement, brick and stone high school, plain foundation. To exceed $150,000. Gilbert & Betelle, 20 Branford Pl., Newark, N. J., archts. Noted Oct. 22.

Mass., Groton—HIGH SCHOOL—Town, School Building Com., taking bids 2 story and basement, 150 x 360 ft., and 45 x 45 ft., brick and stone, plain foundation. $150,000. F. I. Cooper Corp., 172 Tremont St., Boston, archt.

Mass., Malden (Boston P. O.) — CONVENT and CHAPEL—Church of Immaculate Conception, H. Neagle, pastor, taking bids 2 story and basement, brick and stone, Pleasant St. To exceed $150,000. O'Connell & Shaw, 134 Newbury St., Boston, archts. J. P. Dwer, Jr., 80 Boylston St., Boston, engr. Noted Jan. 7.

Mass., Peabody—SCHOOL—City, Mayors Office, City Hall, taking bids 2 story and basement, brick and stone, plain foundation. $150,000. P. Varney, 25 Exchange St., Lynn, archt. Noted Apr. 8.

Conn., Bridgeport—SCHOOL—May 10 (extended date), by City, Bd. Educ., 2 story and basement, brick and steel addition, Boston Ave. and Huntington Rd. $175,000. E. G. Southey, 983 Broad St., archt. Noted Apr. 29.

Conn., Danbury—DORMITORY—May 19, by State Bd. Educ., 130 Washington St., Hartford, 3 story, 7,040 sq.ft. floor space, brick and steel dormitory, here. $200,000. O. C. S. Ziroli, 163 State St., Bridgeport, archt. Noted Apr. 22.

N. Y., New York—SCHOOL—May 13, by W. H. Gompert, archt. and supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, constructing addition to P. S. 101, East 111th St. through to East 112th St. east of Park Ave., here, for Bd. Educ., 500 Park Ave. Noted Jan. 7.

Pa., Glen Olden—SCHOOL—May 10, by P. F. Getz, archt., Victory Bldg., Phila., 2 story and basement, 86 x 155 ft., rein.-con., stone and steel, plain foundation, here, for St. Georges Parish, c/o G. E. Orr, pastor. $200,000.

Pa., Juniata (br. Altoona) — SUNDAY SCHOOL — June 2, by Juniata First Methodist Church, c/o W. W. Banks, pastor 520 6th Ave., (1st unit), 52 x 116 ft. rein.-con., brick and steel, 8th Ave. Total $150,000. J. C. Fulton & Son, Uniontown, archts.

Fla., Punta Gorda — HIGH SCHOOL — May 17, by Bd. Pub. Instruction, St. Petersburg, high school. Woolfort-Brow & Leitner, 606 Bruce-Smith Bldg., St. Petersburg, archts. $150,000.

O., Cleveland — CHURCH — Shaw-Hobbs Evangelical Church, J. L. Shaw, pastor, 4406 Muriel Ave., taking bids 1 story, 100 x 150 ft., brick, steel and concrete, Henninger Rd. $200,000. D. H. Farnam & R. E. Lawrence, The Arcade, archts.

O., Portsmouth—SCHOOL—May 21, by W. C. Hazelbeck, clk. Bd. Educ., 2 story and basement, brick and concrete, Campbell Ave. between 6th and 7th Sts. $200,000. Devoss & Donaldson, Portsmouth, archts.

Mich., Midland—SCHOOL—May 13, by B. H. Carter, secy. Bd. Educ., 2 story and basement, rein.-con., brick and steel school and gymnasium, plain foundation. $150,000. R. V. Gay, 11½ Clinton Ave., St. Johns, archt.

Wis., Milwaukee—SCHOOL—May 12, by Van Ryn & DeGelleke, archts., 114 Grand Ave., 2 story and basement, 63 x 250 ft. school with 60 x 100 ft. and 38 x 64 ft. wings, all brick, tile and concrete, plain foundation, Hartford Ave., for Milwaukee University School Dist., 560 Bway. $400,000.

Ia., Corning — SCHOOL — May 18 (extended date), by C. T. Marcer, secy. Bd. Educ., 2 and 3 story and basement, rein.-con., brick and stone school. $160,000. Thomas, McLennan & Thomas, 508 Old Colony Bldg., Des Moines, archts. Noted Aug. 27.

BRIDGE—CHICAGO, ILL.

Bids were opened by City for construction of substructure of double-leaf trunnion bascule bridge over Chicago River at North La Salle St., (A) Central Dredging Co., 307 North Michigan Ave., (awarded contract); (B) Fitz Simons & Connell Dredge & Dock Co., 10 South La Salle St.; (C) Great Lakes Dredge & Dock Co., 104 South Michigan Ave. The unit bids are as follows:

	A	B	C
Removing obstructions (lump sum)	$3,000.00	$16,000.00	$29,000.00
Miscellaneous work (lump sum)	5,000.00	13,500.00	37,600.00
Building office for engineers (lump sum)	2,500.00	2,500.00	2,100.00
Building cofferdams	225,000.00	225,000.00	298,000.00
4 test piles	600.00	150.00	250.00
5,400 cu.yd. excavation	4.00	3.50	5.00
100 cu.ft. removal of boulders	2.00	2.00	25
100 cu.yd. removal of solid stone	25.00	25.00	25.00
53,000 cu.ft. sub-piers	2.00	2.00	1.62
4,800 cu.yd portland cement concrete 1:3:5 Agg. No. 2	20.00	23.00	22.00
50 cu.yd portland cement concrete 1:2:4 Agg. No. 1	30.00	30.00	30.00
700 cu.yd. portland cement concrete 1:2:4 Agg. No. 1 or 2	30.00	25.00	30.00
430 cu.yd. portland cement mortar	30.00	30.00	28.00
720,000 lb. steel reinforcing material	.07	.07	.06
640,000 lb. pier trusses, trunnion supports, etc	.12	.10	.10
11,000 lb. miscellaneous metal materials	.15	.15	.12
1,400 lb. genuine wrought iron pipe	.25	.50	1.00
700 lb. cast iron manhole covers	.10	.30	.20
8 brass bell traps	25.00	25.00	30.00
80 carborundum safety treads	4.00	5.00	5.00
80 lin.ft. vitrified clay sewer pipe	5.00	5.00	10.00
11,110 lin.ft. oak piles delivered	.50	.35	.39
3,000 lin.ft. norway pine, cypress, piles delivered	.40	.30	.30
10,500 lin.ft. driving oak piles	.40	.30	.59
2,800 lin.ft. driving sundry piles	.40	.30	1.02
9,000 ft. B.M. creosoted oak timber	275.00	200.00	314.00
30,000 ft. B.M. untreated yellow pine timber	175.00	150.00	260.00
Cu.ft. concrete under air pressure	1.00	12.00	5.00
Cu.ft. removing limestone or bed rock	2.00		2.00
Extended totals	$649,585	$660,535	$759,931

Ia., Iowa City — FIELD HOUSE — May 27, by Proudfoot, Rawson & Souers, archts., 810 Hubbell Bldg., Des Moines, 4 story and basement, 216 x 425 ft., rein.-con., brick, steel and stone, West Campus, for Athletic Council of Iowa, State University, P. E. Belting, dir. $400,000. Noted Apr. 29.

Ia., Mechanicsville—SCHOOL—May 13, by Bd. Educ., H. Carville, secy., 3 story, rein.-con., brick and stone school. $150,000. W. J. Brown, 208-10 Bever Bldg., Cedar Rapids, archt. Noted Mar. 18.

Ia., Underwood—SCHOOL—May 25, by Bd. Educ., 2 story and basement, 58 x 100 ft., rein.-con., brick and stone school. $160,000. Anderson & Spooner, 512 Park Bldg., Council Bluffs, archts.

Ark., Fayetteville — AGRICULTURAL and ENGINEERING—May 12 (extended date), by University of Arkansas, J. C. Futrell, pres., 3 story, 58 x 256 ft., 88 x 116 ft., and 88 x 216 ft., rein.-con., brick, stone and terra cotta. Noted Apr. 8.

Tex., Amarillo—HOTEL—E. R. Mayer, 1601 Madison St., taking bids 4 story and basement, 90 x 120 ft., rein.-con., brick and stone, plain foundation. $150,000. E. F. Rittenberry, 303 Blackburn Bldg., archt.

Calif., Los Angeles—CHURCH—Roman Catholic Bishop of Los Angeles and San Diego, taking bids 3 story, 48 x 148 ft., brick and sandstone, 3rd St. and Wilton Pl., in St. Brendins Parish. $150,000. E. G. Martin, 520 Citizens Natl. Bank Bldg., archts.

Calif., Oakland—HIGH SCHOOL—May 25, by Bd. Educ., Woodrow Wilson Junior High School, fireproof, 48th St., for Oakland City School Dist. To exceed $200,000. W. J. Miller, 417 Market St., San Francisco, archt.

Que., Hull—SCHOOLS—L. Landres, secy. School Bd., taking bids Notre Dame and Wrightville schools. $200,000. Noted Mar. 4.

Bids Received

Mass., South Boston (Boston P. O.) — SCHOOL — City of Boston, Schoolhouse Dept., City Hall, Apr. 27, Shurtliff Dist. School, 2 story and basement, 75 x 115 ft., brick and stone, Vail and 9th Sts., here, from J. P. Foley & Sons, 80 Boylston St., Boston, $169,388. Noted Apr. 22.

N. J., Cliffside Park (mail Cliffside) — HIGH SCHOOL—Bd. Educ., Cliffside, general contract brick, steel and stone addition, Palisade Ave., here, from Coppoletta Bros., Cliffside Park, $227,000; ventilating, heating, etc., from G. B. and B. H. Steinke, $33,250. Noted Apr. 1.

N. J., Haddonfield—HIGH SCHOOL—Bd. Educ., B. M. Wilson, secy., Lincoln Ave. and Chestnut St., 2 story, balcony and basement, 167 x 211 ft., and 72 x 98 ft., brick and steel, Kings Highway E., from H. J. Herman Co., 18th and Cherry Sts., Phila., Pa., $374,430; heating, etc., from Mechanical Equipment Co., 214 South 12th St., Phila., Pa., $40,494. Noted Dec. 31.

Md., Baltimore—SCHOOL—Bd. Awards, 1 story and basement, 73 x 239 ft., brick and steel, plain foundation, Arlington St., West and Alto Aves., from North-Eastern Constr. Co., Lexington Bldg., for Mayor and Boro Council. $198,840. Noted Apr. 15.

La., Abbeville — HIGH SCHOOL — Vermillion Parish School Bd., Courthouse, 2 story, brick, high and grade school, from Caldwell Bros., Whitney Bldg., New Orleans, $164,000. Noted Apr. 8.

Ia., Des Moines—CHURCH—Dougher, Rich & Woodburn, archts. and engrs., 806 Valley Natl. Bank Bldg., Apr. 20, 3 story, 185 x 191 ft., rein.-con. and steel, plain foundation, from A. H. Neumann Co., Hubbell Bldg., for Plymouth Congregational Church. $396,859. Noted Apr. 8.

Contracts Awarded

Me., East Millinocket—HIGH SCHOOL—Town, School Comn., 2 story and basement, 60 x 150 ft., brick and stone, to C. T. Reynolds, Augusta. Archts. est. $160,000.

Mass., Belmont (Boston P. O.) — CHURCH — St. Lukes Roman Catholic Church, H. R. Splaine, pastor, 1 story, 85 x 145 ft., rein.-con. and granite, plain foundation, Lexington and Beech Sts., to J. J. Powers, 33 Mystic Ave., Cambridge. Archts. est. $150,000. Noted Apr. 1.

Mass., Framingham — CHURCH — First Baptist Church, 1 story and basement, stone and granite, Vernon St. and Edgell Rd., to T. J. McMahon, 460 Concord St. Archts. est. $150,000.

Mass., Somerville (br. Boston)—CHURCH —Bd. Trustees First Unitarian Church, 1 story and basement, brick and stone, plain foundation, Highland Ave., to Robbins & Smith, 4 College St. Archts. est. $150,000.

Mass., South Boston (Boston P. O.) — SCHOOL — City of Boston, Schoolhouse Dept., City Hall, Shurtleff Dist. School, 2 story and basement, 72 x 113 ft., brick and stone, Vail and 9th Sts., here, to J. P. Foley & Sons, 80 Boylston St., Boston, $169,388. Noted Apr. 29.

Mass., Waverly (br. Boston)—CHURCH —St. Luke's Parish, R. Splaine, pastor, 1 story and basement, 80 x 145 ft., brick and steel, Lexington St., to J. J. Powers Co., 33 Myrtle Ave., Cambridge. Archts. est. $150,000.

Conn., New Britain — CONVENT — St. Joseph's Convent, 205 South Main St., J. F. Donahue, pastor, 2 story and basement, brick and steel, to Hayes Constr. Co., 9 Court St. Archts. est. 150,000. Noted Nov. 26.

Conn., New Britain—SCHOOL—City, J. M. Halloran, chn. school com., 3 story, 60 x 200 ft., brick and steel addition to Nathan Hale School, Tremont St., to M. O'Connor, 561 Main St. Archts. est. $200,000. Noted Apr. 22.

N. Y., New York—CHURCH and HOTEL —Calvary Baptist Church Corp., 123 West 57th St., 15 and 30 story, brick, steel and stone, West 57th St., to R. M. Catts Corp., 247 Park Ave. Archts. est. $2,500,000. Noted Mar. 4.

N. Y., New York—HIGH SCHOOL—Bd. Educ., 500 Park Ave., general contract Theodore Roosevelt High School, East Fordham Rd. and Bathgate Ave., to Lustbader Constr. Co., 101 Park Ave., $2,309,205; plumbing, etc. to J. E. Kahn, 224 West

Buildings—Educational-Religious (Cont.)

20th St., $129,900; heating, etc., to Almirall & Co., Inc., 66 West Bway., $292,000; and electrical work, to J. Menkes, 32 Union Sq., $64,777. Grand total $2,795,882. Noted Apr. 8.

N. Y., Pelham (Ind. br. New York) — SCHOOL — Bd. Educ., altering and constructing 2 story, 50 x 100 ft., brick, steel and stone addition, plain foundation, to J. Borup, Bronxville. Archts. est. $180,000. Noted Apr. 29.

N. Y., Richmond Hill (Ind. br. Jamaica) —SCHOOL — Bd. Educ., 500 Park Ave., New York City, general contract P. S. 124, Stanley Ave., here, to Hayson Constr. Co., 44 Court St., Brooklyn, $337,000; and heat control service, to Almirall & Co., 66 West Bway., New York City, $42,633. Noted Apr. 29.

N. J., Paulsboro—SCHOOL—Bd. Educ., 2 story and basement, 76 x 173 ft., rein.-con. and brick, plain foundation, to G. W. Shaner & Sons, Palmyra, $175,000. Noted Feb. 4.

Pa., Wynnewood—SCHOOL—School Bd. Lower Merion Twp., general contract 2 story and basement, 42 x 188 ft., and 91 x 174 ft. school, to G. H. Evans, 105 North 13th St., Phila., $318,846; heating and ventilating, to Amer. Heating & Ventilating Co., Schaff Bldg., Phila., $31,895. Noted Apr. 29.

Md., Baltimore — CHURCH — Church of the Nativity, Edgerton St. and Garrison Ave., 1 story and basement, irregular shape, stone, Edgerton St. and Garrison Ave., to Cogswell-Koether Co., 406 Park Ave., $150,000. Noted Mar. 25.

La., Abbeville — SCHOOLS — Vermillion Parish School Bd., Courthouse, new brick, high and 2 grade schools, to Caldwell Bros., Whitney Bldg., New Orleans, $198,000. Noted Apr. 8.

Ill., Chicago — COMMUNITY HOUSE — Perkins, Fellows & Hamilton, archts., Tower Court, general contract 4 story and basement, 100 x 150 ft., Bedford stone and rein.-con., Kenmore and Bryn Mawr Aves., to J. B. Shedden Co., 106 North La Salle St., for Edgewater Presbyterian Church. Archts. est. $400,000.

Ill., Chicago—SCHOOL—Bd. Educ., 650 South Clark St., Bradwell School addition, East 77th St. and Burnham Ave., to S. N. Neilson Co., 3059 Augusta St. Archts. est. $250,000. Noted Apr. 1.

Ill., Hillside — CHURCH, SCHOOL and MONASTERY—Servite Fathers Monastery, c/o A. Brosnahan, pastor, 3121 West Jackson Blvd., 2 and 3 story, 190 x 225 ft., rein.-con., brick and stone, to T. Stark Constr. Co., 130 Muskogee St., Milwaukee, Wis., and 118 South 11th St., Cedar Rapids, Ia. Archts. est. $200,000. Noted Apr. 1.

Wis., Milwaukee—CONVENT, etc.—E. Brielmaier & Sons, archts., 432 Bway., 3 story and basement, 200 x 275 ft., brick and concrete convent, power house and laundry, plain foundation, Cedarburg Rd., to Hutter Constr. Co., 128 Western Ave., Fond du Lac, for Sisters of Sorrowful Mother, Marshfield. Archts. est. $450,000. Noted Feb. 18.

Minn., Duluth — HIGH SCHOOL — Bd. Educ., 226 1st Ave. E., C. A. Bronson, clk., general contract Junior High School, 3 story and basement, 65 x 135 ft., and 76 x 145 ft., rein.-con. and title, concrete pile foundation, 2nd St. between North 9th St. and 31st Ave., to G. H. Lounsberry, 322 East Superior St., $377,500.

Kan., Lawrence—AUDITORIUM—C. D. Cuthbert, state archt., State Capitol Bldg., Topeka, for State University of Kansas, 1 story, basement and 2 balconies, 158 x 200 ft., rein.-con., stone and steel, to M. J. Green, Manhattan. Archts. est. $250,000. Noted Apr. 8.

Neb., Lincoln—SCHOOL—Bd. Regents University of Nebraska, 3 story and basement, 86 x 120 ft., brick and stone, to Bickel Constr. Co., University Place, $350,000.

Kan., Pittsburg — HIGH SCHOOL — Bd. Educ., Junior High School, 3 story and basement, 165 x 207 ft., rein.-con., brick and stone, to Eberhardt Constr. Co., 724 Dwight Bldg., Kansas City, Mo., $215,000. Noted Jan. 7.

Mo., Kansas City—HIGH SCHOOL—Bd. Educ., (2nd unit) South West Senior High School, rein.-con., brick and stone, to Sharp Bros., Eldorado, Kan., $345,000.

Tex., Dallas — DORMITORY — C. W. Snider, City Natl. Bank Bldg., Wichita Falls, 3 story and basement, rein.-con., brick and stone, Paris and Bourborn Sts., to H. B. Freedman, 402 1st Natl. Bank Bldg., Fort Worth, $150,000. Noted Mar. 18.

Calif., Oakland—NURSES' HOME—Sisters of Providence, 29th and Bway. Sts., 4 story, rein.-con., Central and Summit Aves., to Barrett & Hilp, 918 Harrison St., San Francisco, $200,000.

Que., St. Jerome — CHURCH — Roman Catholic Church, general contract church, St. John Lake, to A. Dube & Cie, Three Rivers, $131,000.

Federal Government Work

Proposed Work

N. Y., Staten Island—Ejector Station, etc. —Construction Quartermaster's Office, 39 Whitehall Bldg., New York City, rejected bids Mar. 25, ejector station and discharge line at Miller Field, here. Noted Apr. 15.

Wyoming — Road — U. S. Forest Serv., Post Office Bldg., Denver, Colo., made plans grading 12 mi. Fox Park-Keystone Sect., Medicine Bow Forest, Albany Co.

Colorado — Roads — U. S. Forest Serv., Post Office Bldg., Denver, made plans grading 29 mi. New Castle-Buford Project, Garfield Co., and 6 mi. Dirby-Mesa Rd., Eagle Co., both in White River Natl. Forest; also 6 mi. Beulah-Rye Project, Pueblo Co.

Bids Desired

D. C., Wash.—Sewer—May 27, at office Constructing Quartermaster, Munitions Bldg., sanitary sewerage system, at Bolling Field; adv. E. N.-R. May 6.

S. C., Charleston—Pier—June 1, by U. S. Engineer Office, extending the north Customhouse pier about 210 ft.; adv. E. N.-R. May 6.

Tenn., Memphis—Steel Barges—June 1, at office Mississippi River Comn., 1st and 2nd Dists., McCall Bldg., 13 steel barges; adv. E. N.-R. May 6.

Ind., Anderson—Extension—May 18, by Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story and basement extension to U. S. Post Office, here. J. A. Wetmore, acting supervising archt.; adv. E. N.-R. May 6.

Michigan—Dredging—May 25, by U. S. Engineer Office, Detroit, dredging in Saginaw Bay Channel; adv. E. N.-R. May 6.

Ill., North Chicago—Hospital, etc.—June 8, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing recreation building, acute patients building, 2 continued treatment buildings and 1 administration building, etc. at U. S. Veterans Hospital, 105, here; adv. E. N.-R. May 6.

Wyoming — Road — May 12, by J. W. Johnson, dist. engr., 301 Custom House, Denver, Colo., grading 1.98 mi. Dayton-Steamboat Rock, Constr. Sect. 4, Sheridan Co., here.

Colorado—Road—May 12, by J. W. Johnson, 301 Custom House Bldg., Denver, grading 4.95 mi. Ward-Raymond Natl. Forest Rd. Project, Boulder Co.

Calif., Palo Alto—Hospital, etc.—June 21, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing various buildings, etc. at U. S. Veterans Hospital 24, here. F. T. Hines, dir. Noted Apr. 1.

Bids Received

Mass., Chelsea—Quarters—Spec. 5168—Bureau Yards & Docks, Navy Dept., Wash., D. C., 2 double quarters, concrete, brick and steel, at U. S. Naval Hospital, here, from S. Pasquale, 9 Stedman St., Boston, **(1)** $55,000 **(2)** $57,700 **(3)** add $200 **(4)** deduct $30 **(5)** add $130 **(6)** add $6,800 **(7)** add $400. Noted Apr. 8.

Pennsylvania — Recreation, etc. — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Apr. 27, recreation building, officers quarters, etc., at U. S. Veterans Hospital, Aspinwall-Sharpsburg, here, from J. C. Miller, Campbellsville, Ky., **(1)** $164,000 **(2)** $139,500 **(3)** $115,500 (300 days). Noted Mar. 25.

Pa., Fort Mifflin (mail Essington) — Dredging—U. S. Engineer Office, 1505 Race St., Phila., Apr. 22, dredging 47,000 cu.yd. in Delaware River, here, from Amer. Dredging Co., 308 Chestnut St., Phila., Pa. at $0.34 per cu.yd. Noted Apr. 1.

D. C., Wash.—QUARTERS—Spec. 5087 —Bureau Yards & Docks, Navy Dept., Apr. 28, extending nurses quarters, at U. S. Naval Hospital, here, from Devault & Deitrick, Canton, O., **(1X)** $83,848, **(2X)** $77,256, **(3X)** $1,100. Noted Apr. 1.

Ky., Louisville—Wicket Irons, etc.—U. S. Engineer Office, P. O. Box 72, wicket irons, horses and props, for Dam 51, from Amer. Car & Fdry. Co., Jeffersonville, Ind., **(a)** $15,600 and **(b)** $35,400. Noted Apr. 8.

Oregon — Road — Dept. Pub. Rds., New Post Office Bldg., Portland, grading, etc. 6.6 mi. Cascadia Sect. Sanitiem Highway Project, Linn Co., from E. L. Gates, Albany, $68,618.

Contracts Awarded

Tex., Galveston — Dredging — U. S. Engineers Office, dredging deepening and widening Sabine-Neches Canal between Port Arthur and Orange to United Dredging Co., 323 Guaranty Bldg., Galveston, $[illegible]720. Noted Mar. 18.

C. Z., Panama—Masts—Spec. 5191—Bureau Yards & Docks, Navy Dept., Wash., D. C., guyed masts at Cape Mala, here, to J. E. Lingo & Son, Delaware Ave. and Elm St., Camden, N. J., $3,775 (135 days). Noted Apr. 29.

FEDERAL POWER COMMISSION

Application for Licenses and Permits

Applications

697—Great Northern Ry. Co., 4th and Jackson Sts., St. Paul, Minn.—Wants license transmission line in Chelan and King Counties across Snoqualmie and Wenatchee Natl. Forest, Wash.

698—M. L. Requa, 351 California St., San Francisco, Calif.—Wants preliminary permit power development in Speel River, Long, Crater, Sweetheart Lakes and unappropriated portion Tease Lake, Alaska.

699—Fitkin Utilities Inc., 165 Bway., New York City—Wants preliminary permit approximately 2,200 hp. power development in Santa Fe River, Alachua and Columbia Counties, Florida.

700—Kentucky Hydro-Electric Co., Louisville, Ky. — Wants preliminary permit power development in Cumberland River, near mouth Wolf Creek, Russell Co.

701—Sultan Electric Co., Sultan, Wash. —Wants preliminary permit power development in Lake Isable and May Creek, across Snoqualmie Natl. Forest in Snohomish Co., Wash.

Unclassified

Proposed Work

Stadium—Brookline (br. Boston), **Mass.** —Town, Park Dept., having plans prepared by G. Hadden, engr. and archt., 280 Madison Ave., New York City, stadium.

Grade Crossing — Berlin, Conn. — Town, State and New York, New Haven & Hartford R.R. Co., E. Gagel, ch. engr., New Haven, plan eliminating Beckley's Crossing. $90,000. J. A. Macdonald, State House, Hartford, highway comr.

Parks — West Palm Beach, Fla. — Voted $65,000 bonds, constructing parks. C. A. Bingham, city mgr.

Prison Stockade—West Palm Beach, Fla. — $150,000 bonds, constructing prison stockade.

Transmission Lines—Muscle Shoals, Ala. —See "Buildings—Industrial."

Sub-Division — Biloxi, Miss. — Holmhaven-on-the-Gulf, Inc., 2800 West Beach St., and 360 North Michigan Ave., Chicago, Ill., O. O. Carpenter, vice pres., having plans prepared by C. Matthes, Biloxi, amusement place, incl. club house with dance floor and swimming pool, etc. $100,000. Noted Mar. 18.

Transmission Lines, etc.—Tennessee—See "Dam."

Stadium—Ann Arbor, Mich.—Bd. Regents University of Michigan, making plans rein.-con. stadium, 60,000 seating capacity. $700,000. F. H. Yost, dir., Athletic Assn.

Subway — Fordson, Mich. — Ford Motor Car Co., Highland Park, having plans prepared subway for double track street car lines under Pere Marquette and Pennsylvania Ry. tracks, and extending car lines approximately ½ mi. to Fordson plant of owner, incl. rein.-con. retaining walls and supporting structure, drainage structure, etc. on Mulkey Ave. $250,000. Private plans. Detroit Dept. Street Railways, Shoemaker and St. Jeans Sts., plans laying above double track street car lines.

Park Improvements—Peoria, Ill.—Election July 20, $500,000 bonds, park improvements, incl. new palm house, exhibition rooms, steam plant, etc. M. G. Newman, pres. Park Bd.

Amusement Park — Belleville, Ill. — See "Contracts Awarded."

Gas Tank — Lake Geneva, Wis. — Walworth Co. Gas. Co., c/o J. F. Ryan, 352 Douglas St., Elgin, Ill., making plans 500,000 gal. rein.-con., brick and steel retaining tank for gas plant, here. $500,000. Private plans. Noted Jan. 29 under "Buildings-Industrial."

Unclassified (Continued)

Transmission Line—North Dakota—Rugby Light & Power Co., M. A. Erickson, proprietor, Rugby, plans approximately 27 mi. transmission line between Rugby and Barton, also 90 k.v.a. or larger oil engine unit.

Land Development—Joplin, Mo.—Brown-Tatum-Shannon, Inc., 205 Joplin Natl. Bank Bldg., making preliminary plans developing 413 acres subdivision, incl. streets, waterworks, sewers, etc. Hare & Hare, Huntzinger Bldg., Kansas City, landscape engrs.

Grain Elevator—Beaumont, Tex.—Josey-Miller Co., plans rebuilding grain elevator rein.-con., Railroad Ave. and Fannin St., recently destroyed by fire. $100,000. Engineer selected soon.

Swimming Pool—Port Arthur, Tex.—City plans concrete swimming pool, Bryan Park, 16th and Augusta Aves. $25,000. J. O. Herpin, city engr.

Power Transmission Line — Oklahoma — Southwest Power Co., McAlester, plans electric power transmission line from Watts to Fayetteville. $70,000. Private plans.

Ornamental Lighting System—Los Angeles, Calif.—Making plans metal standards on Figueroa St. between Vernon and Slauson Aves., $30,000; portions of Main St., $25,000; and Figueroa St. between Slauson and Manchester Aves., $40,000.

Swimming Pool — Los Angeles, Calif. — See "Buildings—Commercial."

Power Development — Tehama, Calif. — P. B. Cross, 550 Montgomery St., San Francisco, making plans 50 x 150 x 50 ft. rein.-con. diversion dam, 25,562 ft. gunite lined canal, 9,925 ft. 60 in. r.w. stave syphon, 20,890 ft. Armco type steel flume, 5,830 ft. 7x7 ft. concrete or gunite lined tunnel, etc., in Tehama Co. $1,500,000 or more. W. Van Norden, Mills Bldg., San Francisco, engr.

Wharf—Limoiton, Que.—Anglo-Canadian Pulp & Paper Co., Quebec, plans wharf on St. Charles River, on Lot 514-560-502, here. G. Hardy, 309 Bway., New York City, engr. $1,000,000.

Amusement Park—Three Rivers, Que.—H. F. Blackwell, Chateau De Blois, plans whip, scenic railway, dance hall, etc. $150,000.

Power Line — Alberta — Calgary Power Co., Calgary, soon takes bids power line between Calgary and Red Deer. $300,000.

Bids Desired

Timber Piles and Platform — Albany, N. Y.—May 14, at office Albany Port Dist. Comn., 100 State St., timber piles and platform for bulkhead for Port of Albany. T. Fitzgerald, secy.; adv. E. N.-R. May 6.

Heating, etc.—Buffalo, N. Y.—May 19, by State Hospital Comn., Albany, N. Y., heating work, additional boiler capacity, etc., at Buffalo State Hospital, here; adv. E. N.-R. May 6.

Heating, etc.—Kings Park, N. Y.—May 26, by State Hospital Comn., Albany, heating, sanitary and electrical work, etc., for Veterans Memorial Hospital, Kings Park State Hospital, here; adv. E. N.-R. May 6.

Support for Retaining Walls — Long Island City, N. Y.—May 14, by Bd. Transportation, 49 Lafayette St., New York City, additional support for retaining walls and abutment, Queens Boro, here, Agreement "EM." J. H. Delaney, chn.

Foundations, etc.—New York, N. Y.—May 13, B. M. Patten, comr. Public Markets, Municipal Bldg., constructing foundations, viaduct, ramps, floor and paving for Bronx Municipal Terminal Market, at Exterior St. and East 151st St., Bronx Boro.

Borings—Phila., Pa.—May 18, by City of Phila. and Montgomery Co. (Norristown), 216 City Hall, Phila., 850 ft. churn borings for Green Lane Bridge, over Schuylkill River. W. C. Irwin, controller Montgomery Co.

Playground—Baltim re, Md.—May 10, by Bd. Awards, grading, concrete work, etc. improving area and playground at Canton School, 2nd St. H. G. Perring, Hearst Tower, superv. engr. Pub. Impvt. Comn.

Pipe Line—Louisiana and Mississippi—See "Contracts Awarded."

Heating, Plumbing, etc.—Chicago, Ill.—May 11, by Bd. Educ., 650 South Clark St., J. C. Christensen, archt., heating, plumbing, ventilating, heat regulation and ash ejectors for Samuel Gompers School, 123rd St. and LaFayette Ave., and Spencer School addition, North Lavergne and Park Aves.; also plumbing for Bradwell School addition, 77th St. and Burnham Ave. J. E. Byrnes, bus. mgr.

Foundation—Madison, Wis.—University of Wisconsin, J. D. Phillips, bus. mgr., taking bids rein.-con. foundation for rein.-con., brick and steel Union Memorial Building, at University. $25,000. A. Peabody, State Capitol Bldg., archt.

Transmission Line — Iowa — See "Contracts Awarded."

Overhead Crossing—North Dakota—See "Streets and Roads under Contracts Awarded."

Stadium — Austin, Tex. — May 25, by Texas Memorial Stadium Assn., Inc., rein.-con. addition to Texas Memorial Stadium. M. Fichtenbaum, executive secy.; adv. E. N.-R. May 6. Noted Apr. 22.

Grain Elevator — Beaumont, Tex. — See "Contracts Awarded."

Bids Received

Platform Extensions—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., extending Essex St., Bowery and Chambers St. stations of Bway. 4th Ave. Rapid Transit R.R., from B. T. and J. J. Mack, 160 Bway., (unofficial) $199,000. Noted Apr. 22.

Pier—Phila., Pa.—City, c/o G. F. Sproule, city dir., Municipal Pier 4, South Wharves foot Chestnut St., Apr. 21, substructure for Pier 80, 1,000 ft. long and 280 ft. wide, incl. piles, decking, concrete bulkheads, etc., Jackson St., from Snare Corp., 1524 Chestnut St., **(a)** $1,030,000 **(b)** $849,000 **(c)** $748,300 **(d)** $666,000 **(e)** $480,000; and from McLean Constr. Co., 80 South Wharves **(a)** $985,000 **(b)** $835,000 **(c)** $760,000 **(d)** $690,000 **(e)** $620,000. Noted Apr. 15.

Street Lighting System—St. Paul, Minn.—Street lighting system using **(a)** concrete posts **(b)** pressed metal or steel posts and **(c)** c.i. posts in **(1)** St. Anthony Park **(2)** Merriam Park and Hill Dist. 2, from Donovan Constr. Co., 1101 Builders Exch. Bldg., **(a1)** $42,267 **(b1)** $46,000 **(c1)** $43,300 **(a2)** $274,669 **(b2)** $296,400 and **(c2)** $277,400.

Contracts Awarded

Coal Plant—Providence, R. I.—Narragansett Electric Light Co., Eddy St., coal handling plant incl. trestle and wharf, brick and steel, to J. H. Proctor Co., Old South Bldg., Boston. Archts. est. $40,000.

Coal Pocket—Somerville (Boston P. O.), **Mass.**—Wellington & Burtnet, 211 Bridge St., East Cambridge, coal pocket, concrete, 13-17 Somerville Ave., to A. W. McLean, 196 Medford St., Charlestown. Archts. est. $25,000. Noted Apr. 8.

Lighting System—New York, N. Y.—Bd. Health, L. I. Harris, pres., 505 Pearl St., underground roadway lighting system, in various buildings, Riverside Hospital, North Brother Island, Bronx, to F. Scandon, 86 Park Pl., $53,000. Noted Mar. 11.

Scale Pit, etc.—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., scale pit and foundation for coal pockets in Lenox Ave. and 148th St. Yard, to Hart & Early, Inc., 18 East 41st St., $19,140. Noted Apr. 29.

Coal Pocket—Glen Rock (br. Ridgewood), **N. J.**—Bergen County Coal Co., Doremus Ave., rein.-con. silo type coal pocket, to W. G. Hudson, 50 Church St., New York City, N. Y.

Coal Pocket — Paterson, N. J. — M. B. Farrclough & Son, 27th St. and Susquehanna R.R. tracks, general contract 2,500 ton capacity coal pocket, timber, to W. G. Hudson, Corp., 50 Church St., New York City, N. Y.; and concrete pile construction, to Raymond Concrete Pile Co., 140 Cedar St., New York City.

Fire Alarm System—Trenton, N. J.—City Comn., extending underground fire alarm system and transferring fire alarm telegraph system from Headquarters to Electrical Building. $58,000. O. M. Schafer, Trenton, supt. Fire & Police.

Pier — Chester, Pa. — Ford Motor Co., Highland Park, Mich., 150 x 515 ft. rein.-con. and wood pile pier and 216 ft. bulkhead, 34 ft., extending into Delaware River, here to A. J. Boyle Co., Amer. Bldg., Baltimore, Md. Engrs. est. $650,000. Noted Feb. 25.

Elimination Grade Crossing — Marcus Hook, Pa.—Pennsylvania R.R. Co., A. C. Shand, ch. engr., Broad St. Sta., Phila., elimination grade crossing by constructing 78 ft. steel bridge, 50 ft., with two 50 x 450 ft. rein.-con. approaches, Market St. at Lower Chichester Twp., here, to T. J. Foley Co., Fulton Bldg., Pittsburgh. Engrs. est. $350,000.

Pipe Line—Louisiana and Mississippi—Standard Oil Co., North Baton Rouge, La., will construct 170 mi. natural gas pipe line from Baton Rouge to Mississippi via Mississippi River at Natchez, **Miss.** Work will be done by day labor under supervision Ford, Bacon & Davis, engrs., 115 Bway., New York City. For 8,000 tons 22 in. pipe, to Natl. Tube Co., Frick Bldg., Pittsburgh, Pa., and to Spang-Chalfant Co., Union Bank Bldg., Pittsburgh, Pa.

Foundation—Marion, O.—Harding Memorial Assn., concrete foundation to President Harding Memorial, to E. Elford, 555 Park Ave., Columbus, $26,500. Noted Jan. 7.

Amusement Park — Belleville, Ill. — St. Clair Park Assn., will build amusement park, incl. swimming pool, boating lagoon, dance pavilion, etc. $250,000. Work will be done by separate contracts.

Transmission Line — Iowa — Sioux City Gas & Electric Co., Sioux City, will install 55 mi. 66 kv. single circuit, wood pole suspension type high tension line from Storm Lake to Rutland, connecting with Humboldt line, by day labor, $243,000; also 1,000 kw. capacity emergency turbine at Big Sioux Station, 11,000 volt 3 phase power circuit for Packing House Dist., Sioux City; one 4 kv. and two 11 kv. substations in Sioux City, by day labor, under supervision U. G. I Contg. Co., Broad and Arch Sts., Phila., Pa.

Overhead Crossing—North Dakota—See "Streets and Roads."

Grain Elevator — Beaumont, Tex. — Josey-Miller Co. will build grain elevator, rein.-con., by day labor. $100,000. Private plans. Noted Apr. 30.

Grain Elevator—Hereford, Tex.—E. W. Harrison, one unit rein.-con. and steel grain elevator, to Star Eng. Co., Wichita, Kan., approximately $110,000.

Undergrade Crossing—Longview, Wash.—Constructing undercrossing under Longview, Portland & Northern R.R. tracks, at California Way, L. I. D. 19, to Olympic Constr. Co., Longview, $59,405.

Materials

Proposed Work

Road Oil — Minneapolis, Minn. — F. S. Gram, city purch. agt., rejected bids Apr. 17, 2,000,000 gal. road oil. Will readvertise. Noted Apr. 8.

Bids Desired

Iron Castings, etc.—New York, N. Y.—May 10, by J. Miller, pres. Manhattan Boro, Municipal Bldg., iron castings to Corporation Yards; and 1 portable centrifugal pump.

Lumber—New York, N. Y.—May 14, by P. J. Dooling, comr. Purchase, Municipal Bldg., lumber to Depts. Parks, Manhattan and Water Supply, Gas & Electricity.

Road Oil—Lambertville, N. J.—May 10, by City Comn., 12,000 gal. oil, and 500 tons ½ in. stone for road work. A. Van Natta, city clk.

Ballast—Phila., Pa.—May 10, by Dept. Supplies, E. J. Lafferty, dir., 2,425 tons slag and 7,921 tons 1.5 x 2.5 ballast, 1,363 tons ¾ and 1,475 tons ½ stone.

Rock Asphalt—Chicago, Ill.—May 11, by City, City Hall, native Kentucky rock asphalt required for year 1926. A. A. Sprague, comr. Pub. Wks.

Cedar Posts—Madison, Wis.—May 10, by State Hy. Dept., at office of Traffic Engineer, Capitol Annex, 9 to 15 car loads northern white cedar posts, f.o.b. various destinations.

Road Oil—Madison, Wis.—E. F. Bunn, city aud., taking bids 60,000 gal. more or less tar products for oiling streets, etc. E. E. Parker, City Hall, engr.

Culvert Pipe—Onawa, Ia.—May 11, at office Auditor Monona Co., 2,808 ft. corrugated culvert pipe. C. B. Zorn, Onawa, co. engr.

Road Oil and Tar—Minnesota—May 18, by State Hy. Dept., St. Paul, approximately 1,580,000 gal. road oil and tar, etc.

Bids Received

Road Oil—St. Paul, Minn.—G. J. Reis, aud. Ramsey Co., 300,000 gal. road oil, from W. H. Barber Co., 1501 Franklin Ave. S. E., Minneapolis, at $0.0672 per gal. Noted Apr. 15.

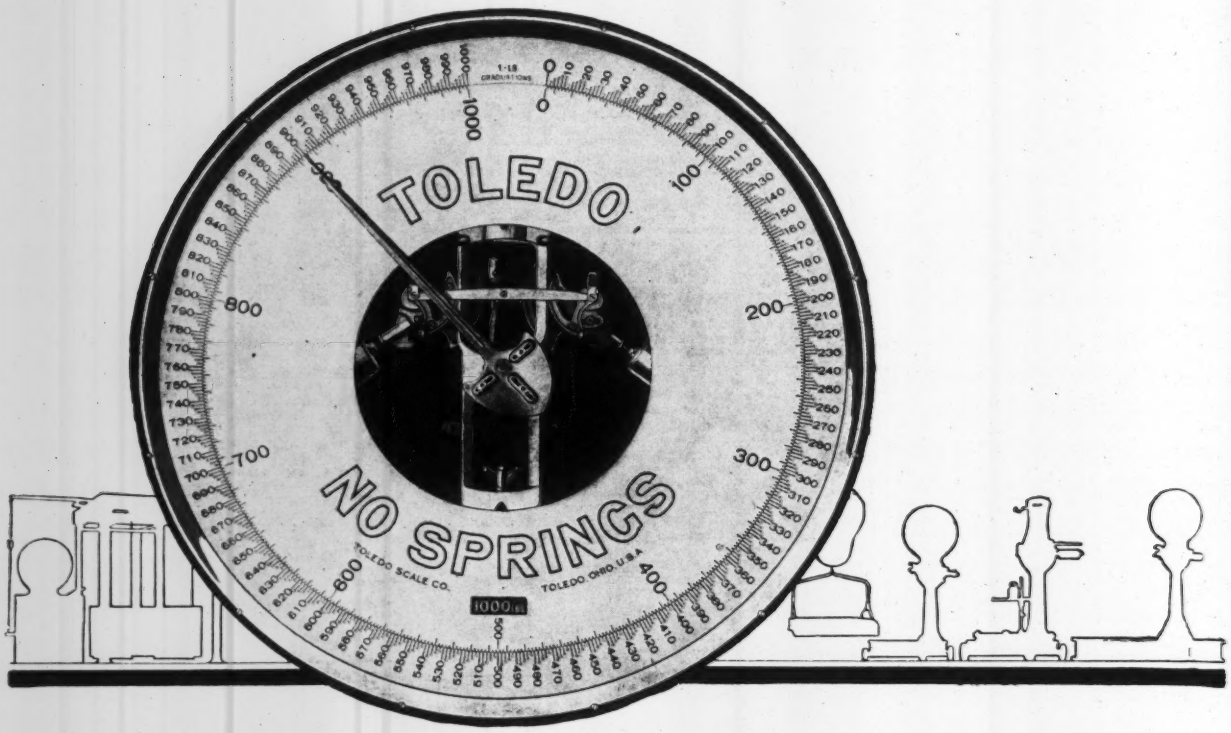
Contracts Awarded

Iron Castings — Boston, Mass. — City, Supply Dept., 400,000 iron castings (frames and covers), to E. L. LeBaron Fdry. Co., Brockton, $0.027 per lb.

Road Oil — Minneapolis, Minn. — F. S. Gram, purch. agt., 500,000 gal. road oil, to Amer. Mexican Refining Co., 11 South La Salle St., Chicago, Ill. at $0.0778 per gal. Noted Apr. 8.

Asphalt and Tar, etc.—Clayton, Mo.—St. Louis Co., Court House, 300,000 gal. Grade A1 asphalt and 50,000 gal. equal to Tarvia A and B, to Asphalt Distributing Co., Victoria Bldg., St. Louis at $0.1094 per gal.

See proposal advertising on page 156, Advertising Section



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"Twenty-five Toledo Scales paid for themselves in the first 30 days of operation. Our actual saving on over-weight on about two million packages amounted to over $1,000," says The Foulds Milling Company of Libertyville, Ill., manufacturers of macaroni products.

"We find after checking over shipments since the scales were installed that we have received from the transportation companies here refunds amounting to about $2,500," says W. M. Dutton & Sons Company of Hastings, Nebraska, manufacturers of harness, and wholesalers of hardware and auto supplies.

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TOLEDO SCALES

NO SPRINGS HONEST WEIGHT

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Athletic centre, South Boston, Mass., Olympia Fields Co. having plans prepared, $10,000,000.

Paper mill, Levis, Que., Canadian International Paper Co. making plans, $5,000,000.

Hotel, Long Beach, N. Y., L. Saltzman, S. Ash and T. Shwarzman having plans prepared, $4,000,000.

Stadium, Niagara Falls, N. Y., Niagara Frontier & Athletic Assn. plan building, $3,500,000.

Office and stores, Chicago, Ill., Medical Arts Club having plans prepared, $3,000,000.

Hospital, Jackson, Miss., State Improvement Com. having plans prepared, $2,500,000.

High school, Cleveland, O., Bd. Educ. having preliminary sketches made, $2,000,000.

Viaducts and repair work, Los Angeles, Calif., voted $1,900,000 bonds.

Hospital, Chicago, Ill., Ridge Gen. Hospital, Inc., having plans prepared, $1,500,000.

Court house, Hartford, Conn., Hartford County Bldg. Com. receiving competitive plans, $1,500,000.

Hotel, Yonkers, N. Y., Bardley Realty Co. having plans prepared, $1,300,000.

Municipal Impvt. Dist. 5, Pasadena, Calif., plans widening street, $1,150,000.

Store, theatre and office, Rochester, N. Y., L. Lempert preparing plans for Greater Rochester Properties, $1,125,000.

Hotel, Ft. Meyers, Fla., C. W. Russell and associates having plans prepared, $1,100,000.

Hotel, St. Petersburg, Fla., B. Ely plans building, $1,000,000.

Schools, Fairmont, W. Va., Bd. Educ. having preliminary plans made, $1,000,000.

Sports arena, Detroit, Mich., J. C. Townsend and associates plan arena, $1,000,000.

Bids Wanted

Power house, Chicago, Ill., May 8, Graham, Anderson, Probst and White, archts., $2,000,000.

Hospital, New York, N. Y., State Hospital Comrs., Albany, soon take bids, $2,000,000.

Apartment and lodge, Cleveland, O., G. Stewart, archt., takes bids about June 1, $1,400,000.

Cathedral, Oakland, Calif., C. Werner, archt., taking bids, $1,000,000.

Contracts

Arena, Jersey City, N. J., Journal Square Gardens, Inc., to Thompson-Starrett Co., $7,000,000.

Steel gates, Welland, Ont., Dept. Rys. and Canals to Lyall Constr. Co., $4,500,000.

Office, theatre and business, Kansas City, Mo., Loews, Inc., to Midland Investment Co., $4,000,000.

High school, Fordson, Mich., Bd. Educ. to F. R. Patterson Constr. Co., $2,000,000.

Loft, New York, N. Y., Realty Constr. Co. will build by separate contracts, $2,000,000.

Classified Index of Bids Wanted

Waterworks

Bids close — *See Eng. News-Record*

May 14 Brooklyn, N. Y. .....May 6
May 15 Nelliston, N. Y. .....May 6
May 15 Menomonie, Wis. .....May 13
May 17 Kohler, Wis. .....May 13
May 17 Appleton, Wis. .....May 13
May 17 St. Lamberts, Que. .....May 13
May 18 Lansing, Ill. .....May 13
May 18 Hagerstown, Md. .....Apr. 22
May 19 Augusta, Me. .....May 6
May 20 Milwaukee, Wis. .....May 13
May 21 Oakland, Calif. .....Apr. 22
May 24 Norwalk, Conn. .....May 6
Adv. May 6 and 13.
May 25 St. Louis, Mo. .....May 6
May 25 Wheeling, W. Va. .....May 13
Adv. May 13.
May 25 Blairsville, Pa. .....May 13
Adv. May 13.
May 27 York, S. C. .....May 13
May 29 Gulfport, Miss. .....Apr. 29
June 2 New York, N. Y. .....May 6

Sewers

May 14 West Haven (br. New Haven), Conn. .....May 6
May 14 Reading, Mass. .....May 13
May 15 Janesville, Wis. .....May 13
May 15 North Andover (Ind. br. Lawrence), Mass. .....May 13
May 17 Westmont (Johnstown P. O.), Pa. .....May 13
May 17 Miami, Fla. .....May 6
May 17 Cincinnati, O. .....May 13
May 17 Kohler, Wis. .....May 13
May 18 Sacket Harbor, N. Y. .....Apr. 29
May 18 St. Paul, Minn. .....May 13
May 18 Libertyville, Ill. .....May 13
May 19 Cleveland, O. .....May 13
May 19 Rye, N. Y. .....Apr. 29
May 19 Detroit, Mich. .....May 13
May 19 St. George, N. Y. .....May 13
May 19 West Roxbury (sta. Boston), Mass. .....May 13
May 20 Haskell, Tex. .....May 13
May 20 Murfreesboro, Tenn. .....May 13
May 20 Akron, O. .....May 13
May 20 Dexter, N. Y. .....Apr. 29
May 20 Salisbury, Md. .....Apr. 29
Adv. Apr. 29 to May 13.
May 20 Haskell, Tex. .....May 13
May 21 La Grange, N. C. .....Apr. 29
Adv. Apr. 22 to May 13.
May 25 Muskegon, Mich. .....Apr. 29
May 25 Niles, Ill. .....May 6
May 25 Plaquemine, La. .....May 6
Adv. May 6 and 13.
May 28 Louisville, Ky. .....May 6

Bids close — *See Eng. News-Record*

May 28 Akron, N. Y. .....May 13
Adv. May 13.
May 31 Selma, Ala. .....May 13
June 8 St. Louis, Mo. .....May 13

Waste Disposal

May 17 Sanford, Fla. .....May 13
May 27 Galveston, Tex. .....Apr. 29
June 3 Mobile, Ala. .....May 6
Adv. May 6 and 13.

Bridges

May 14 Ohio .....May 6
May 15 Paducah, Ky. .....Apr. 22
May 15 Anderson, Ind. .....Apr. 8
May 15 St. Pierre le Bicquets, Que. .....May 6
May 17 Akron, O. .....Apr. 29
May 18 Texas .....Apr. 29
May 18 New Orleans, La. .....May 6
May 19 Minneapolis, Minn. .....Apr. 8
May 19 Pennsylvania .....Apr. 29
May 19 Akron, O. .....Apr. 29
May 19 Poughkeepsie, N. Y. .....May 6
Adv. May 6 and 13.
May 19 Kooskia, Idaho .....May 6
May 21 Akron, O. .....Apr. 29
May 21 Maskinonge, Que. .....May 6
May 24 California .....May 6
May 25 New York .....May 13
Adv. May 13.
May 26 Los Angeles, Calif. .....May 6
May 27 Louisiana .....Apr. 29
Adv. Apr. 29 to May 13.
June 1 Sebring, Fla. .....May 6
Adv. May 6 and 13.
June 1 Mercer, Pa. .....May 13
Adv. May 13.
June 1 Santa Cruz, Calif. .....May 13
June 1 Jacksonville, Fla. .....May 13
Adv. May 13.

Excavation, Drainage, Irrigation, Levees, River and Harbor

May 18 Sioux City, Ia. .....May 6
May 20 Falmouth, Mass. .....May 13
May 24 Buffalo, N. Y. .....Apr. 22
May 27 New Jersey .....May 13
Adv. May 13.
June 1 Galveston, Tex. .....Apr. 29
June 4 Albany, N. Y. .....May 13
Adv. May 13.
June 15 St. Louis, Mo. .....May 13

Streets and Roads

May 14 Ohio .....May 6
May 14 Vermont .....May 6

Bids close — *See Eng. News-Record*

May 14 Trenton, N. J. .....May 6
May 15 Anderson, Ind. .....Apr. 8
May 15 Anderson, Ind. .....May 13
May 15 Norwich, Conn. .....May 13
May 15 Milwaukee, Wis. .....May 13
May 17 Morgantown, W. Va. .....Apr. 22
May 17 Pleasant Ridge, Mich. .....May 6
May 17 Aberdeen, S. D. .....May 6
May 17 Clearfield, Pa. .....May 13
May 17 Johnstown, N. Y. .....May 13
May 17 Fruitport, Mich. .....May 13
May 17 Hennessey, Okla. .....May 13
May 17 Brookline (br. Boston), Mass. .....May 13
May 18 Concordia, Kan. .....May 13
May 18 Connecticut .....May 13
Adv. May 13.
May 18 South Carolina .....May 13
May 18 St. Louis, Mo. .....May 13
May 18 North Dakota .....May 6
May 18 Maryland .....May 6
Adv. May 6 and 13.
May 18 Oxford, Miss. .....May 6
May 18 Athol, Mass. .....May 13
May 18 South Carolina .....May 13
May 18 Eufaula, Ala. .....May 13
May 18 Webster City, Ia. .....May 13
May 18 Dakota, Ia. .....May 13
May 18 Humboldt, Ia. .....May 13
May 18 Sioux City, Ia. .....May 13
May 18 Omaha, Neb. .....May 13
May 18 Phila., Pa. .....May 13
May 18 Grand Haven, Mich. .....May 13
May 18 Fordson, Mich. .....May 13
May 19 North Dakota .....May 6
May 19 Southmont (Johnstown P. O.), Pa. .....May 6
May 19 Alabama .....May 13
May 19 Sibley, Ia. .....May 13
May 19 Cleveland, O. .....May 13
May 19 West Palm Beach, Fla. .....May 13
May 19 Bexley (Columbus P. O.), O. .....May 13
May 20 Florida .....May 13
May 20 Michigan .....May 6
May 20 Pennsylvania .....May 6
Adv. May 6 and 13.
May 20 Baton Rouge, La. .....May 13
May 20 New Brunswick, N. J. .....May 13
May 20 Washington, Pa. .....May 13
May 20 Wisconsin .....May 13
May 20 Pennsylvania .....May 13
May 20 New York, N. Y. .....May 13
May 20 Pompton Lakes, N. J. .....May 13
Adv. May 13.
May 20 Boston, Mass. .....May 13
May 20 Maine .....May 13
May 21 Idaho .....May 13
May 21 Alma, Kan. .....Apr. 22
May 21 De Kalb, Miss. .....May 6

See proposal advertising on page 134, Advertising Section

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Good Pipe Joints

Has it occurred to you why so many water works men are using Leadite for making joints in all sizes of cast iron water mains?

There are many sound reasons.

The most important reason is that experience has proven Leadite joints are good joints and improve with age.

The other reasons relate to saving in the cost of material and labor.

Leadite facilitates rapid completion of the work.

Leadite saves money from every angle of pipe laying.

Anyone can make Leadite joints; Leadite is very easy and simple to handle.

Yarn the joint, pour it full of molten Leadite, and the joint is finished.

If you have never tried Leadite, do not pass up a good thing without investigating it.

Give Leadite a trial.

Leadite resists electrolysis.

Leadite does not corrode or rust.

Leadite has been successfully tested and used for over 30 years.

Thousands of miles of pipe jointed with Leadite are in service.

The up-to-date water works man specifies and uses LEADITE.

Laying 36-in. c. i. Water Mains With Leadite Joints

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking Material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids close *See Eng. News-Record*

May 21 Westmont, Pa. .....May 13
May 21 New Jersey .....May 13
May 24 Huntington, W. Va. .....May 6
May 24 Garrett, Kan. .....May 6
May 24 New Jersey .....May 6
Adv. May 6 and 13.
May 24 California .....May 6
May 24 Los Angeles, Calif. .....May 13
May 24 Akron, O. .....May 13
May 24 San Diego, Calif. .....May 13
May 24 Minneapolis, Minn. .....May 13
May 24 San Rafael, Calif. .....May 13
May 24 Durant, Miss. .....May 13
May 24 Michigan .....May 13
May 24 Phila., Pa. .....May 13
May 25 Ft. Wayne, Ind. .....May 13
May 25 Minnesota .....May 13
May 25 Maryland .....May 13
May 25 New York .....May 13
Adv. May 13.
May 25 Wellington, Kan. .....May 6
May 25 North Dakota .....May 6
May 25 Manasquan, N. J. .....May 6
Adv. May 6 and 13.
May 25 Washington .....May 6
May 25 Dartmouth, Mass. .....May 13
May 26 Pratt, Kan. .....May 6
May 26 Delaware .....Apr. 29
May 26 Stuart, Fla. .....May 6
May 26 Siler City, N. C. .....May 13
May 26 Michigan .....May 13
May 27 Dodge City, Kan. .....May 6
May 27 Charleston, W. Va. .....May 6
May 27 Michigan .....May 13
May 28 Medicine Lodge, Kan. .....May 6
May 28 La Belle, Fla. .....May 13
May 28 Freeport, N. Y. .....May 13
Adv. May 13.
May 31 Garnett, Kan. .....May 13
May 31 Bradentown, Fla. .....May 13
June 1 Birmingham, Ala. .....Apr. 22
June 1 St. Louis, Mo. .....May 13
June 4 Columbus, Kan. .....May 13
June 7 Akron, O. .....May 13
June 7 Saline, Kan. .....May 13
June 8 Wabash, Ind. .....May 13
June 8 St. Louis, Mo. .....May 13
June 8 Eldorado, Kan. .....May 13
June 11 Fellsmere, Fla. .....May 13
Adv. May 13.
June 11 Saline, Kan. .....May 13
June 11 Olathe, Kan. .....May 13
June 15 Anderson, Ind. .....May 13

Buildings—Commercial

May 15 Williamsport, Pa. .....May 6
May 15 Atlantic City, N. J. .....Apr. 22
May 17 New Orleans, La. .....May 6
May 18 Columbus, O. .....Apr. 15
May 19 Central Islip, N. Y. .....May 6
Adv. May 6 and 13.
May 19 Yonkers, N. Y. .....May 6
Adv. Apr. 29 to May 13.
May 19 Phila., Pa. .....May 6
May 20 Ohio .....Apr. 15
May 20 Maspeth (Ind. sta. Flushing), N. Y. .....May 13
May 20 Springfield, N. Y. .....May 13
May 20 Greenwich, N. Y. .....May 13
May 21 Stamford, Conn. .....May 13

Bids close *See Eng. News-Record*

May 25 Iowa City, Ia. .....Apr. 15
June 2 Juniata (br. Altoona), Pa. .....May 6
June 8 Duluth, Minn. .....May 6
June 14 New York, N. Y. .....Apr. 29
July 1 Texarkana, Tex. .....Apr. 22
Sept. 1 Vancouver, B. C. .....Apr. 22

Buildings—Industrial

May 14 Phila., Pa. .....May 13
May 15 Williamsport, Pa. .....May 6
May 15 New York, N. Y. .....May 13

Buildings—Educational, Religious

May 15 Lorain, O. .....May 13
May 17 Dayton, O. .....Apr. 29
May 17 Punta Gorda, Fla. .....May 6
May 18 Corning, Ia. .....May 6
May 19 Danbury, Conn. .....May 6
May 20 Brighton (sta. Boston), Mass. .....May 13
May 21 Portsmouth, O. .....May 6
May 25 Underwood, Ia. .....May 6
May 25 Oakland, Calif. .....May 6
May 25 Sioux City, Ia. .....May 13
May 26 Greeley, Colo. .....May 13
May 26 Chicago, Ill. .....May 13
May 26 Lansing, Mich. .....May 13
May 26 Waltham (Ind. br. Boston), Mass. .....May 13
May 27 Iowa City, Ia. .....May 6
May 31 Little Rock, Ark. .....May 13
June 4 Akron, O. .....May 13

Federal Government Work

May 14 Pipe Line—Wash., D. C. ...Apr. 15
Adv. Apr. 15 to May 13.
May 17 Storehouse—Baltimore, Md. .....May 13
May 18 Recreation—Augusta, Ga. ..Apr. 15
May 18 Generators—Wash., D. C. ...Apr. 22
May 18 Curbs, etc.—Camp Custer (Br. Battle Creek), Mich. ..Apr. 29
May 18 Extension—Anderson, Ind. ..May 6
May 18 Refrigeration and Ice Making Machinery—Rutland Height, Mass. .....May 13
May 19 Mezzanine—Great Lake (br. Waukegan), Ill. .....May 13
May 20 Levees—New Orleans, La. ..May 13
May 20 Current Retards—Missouri. May 13
May 24 Dam—Fort Meade, S. O. ...May 13
May 24 Dredging—Washington ...May 13
May 25 Needle Valves—Oregon ...Apr. 29
May 25 Dredging—Michigan .....May 6
Adv. May 6 and 13.
May 25 Sand, etc.—Illinois .....May 13
Adv. May 13.
May 25 Road—California .....May 13
May 26 Generator Sets—Pearl Harbor, T. H. .....May 13
May 27 Remodeling—Lynn, Mass. ..May 13
Adv. May 13.
May 27 Sewer—Wash., D. C. .....May 6
May 29 Dwellings — Nashville, Tenn. .....May 13
June 1 Steel Barges—Memphis, Tenn. .....May 6
Adv. May 6 and 13.

Bids close *See Eng. News-Record*

June 1 Pier—Charleston, S. C. ....May 6
Adv. May 6 and 13.
June 7 Operating Machinery—Louisville, Ky. .....May 13
Adv. May 13.
June 9 Compass Station — Empire, Ore. .....May 13
June 8 Hospital, etc.—North Chicago, Ill. .....May 6
Adv. May 6 and 13.
June 9 Gates—Pittsburgh, Pa. ...May 13
Adv. May 13.
June 9 Boilers — Terre Haute, Ind. .....May 13
Adv. May 13.
June 21 Hospital, etc.—Palo Alto, Calif. .....May 6
July 7 Motors, etc.—Wash., D. C. ..May 13
Adv. May 13.
July 15 Dredging—Hawaii .....May 13
Adv. May 13.

Unclassified

May 15 Heating, etc.—London, Ont. Apr. 29
May 17 Foundations, etc. — Hull, Mass. .....May 13
May 18 Cable—Hartford, Conn. ...May 13
May 18 Signal System—Buffalo, N. Y. .....Apr. 1
May 18 Borings—Phila., Pa. .....May 6
May 19 Heating, etc.—Buffalo, N. Y. .....May 6
May 19 Fire Alarm System, etc.—Utica, N. Y. .....Apr. 29
May 21 Timber Piles, etc.—Albany, N. Y. .....May 13
Adv. May 13.
May 24 Ornamental Lighting System —Los Angeles, Calif. .....May 13
May 25 Stadium—Austin, Tex. ....May 6
May 26 Heating, etc.—Kings Park, N. Y. .....May 6
Adv. May 6 and 13.
May 28 Waterproofing Standpipe, etc. —Walpole, Mass. .....Apr. 29
May 31 Wharf—Mobile, Ala. .....Apr. 29
Adv. Apr. 29 to May 13.
June 3 Heating and Sanitary Work—Raybrook, N. Y. .....May 13
Adv. May 13.

Materials

May 14 Lumber—New York, N. Y. .May 6
May 17 Ties—Columbus, O. .....May 13
May 17 Coal Tar Patching — Boston, Mass. .....May 13
May 17 Castings — New York, N. Y. .....May 13
May 17 Conduit Pipe — Kenosha, Wis. .....May 13
May 18 Road Oil and Tar — Minnesota .....May 6
May 18 Gravel—Louisiana .....May 13
May 21 Refined Tar—Minneapolis, Minn. .....May 13
May 21 Rails, etc.—Phila., Pa. ....May 13
May 25 Cement Blocks—Albany, N. Y. .....May 13
Adv. May 13.

News of New Work

Waterworks

Proposed Work

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Pa., Duquesne — Soon takes bids rein.-con. reservoir, 145 ft. diam. and 18 ft. high, with concrete slab roof. $100,000. R. Dell, city engr.

Va., Luray — Making plans pumping water from spring and new reservoir. $100,000. G. H. Massey, Dickson Bldg., Norfolk, engr.

Tenn., Portland—Plans new waterworks, incl. mains, steel storage tank, etc. $40,000.

O., Massillon — City Council soon takes bids extending mains in various streets. $121,750. C. E. Rice, Massillon, engr.

Mich., Detroit—Dept. Water Supply, making plans improving waterworks incl. 20 m.g. clear water reservoir, tunnels and connections with present system at Water Works Park. $900,000. G. H. Fenkell, 176 East Jefferson Ave., gen. mgr.

Mich., Wayne—Michigan Investment Co., made plans water distribution system, including 9,060 ft. 6 in. c.i. mains, valves, hydrants, etc., for Harroun Park subdivisions. $20,000. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs

Ill., Highland Park — Plans distribution system in west side new annexed territory. $250,000. Windes & Marsh, Winnetka, engrs.

Ill., Winnetka — Making plans waterworks for Alles and Daughaday subdivision. $67,000. Windes & Marsh, Winnetka, engrs.

Kan., Geneseo — Making preliminary plans new waterworks. $35,000. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, Mo., engrs.

Mo., St. Louis—Water Dept. making preliminary plans improving with rein.-con., brick and stone superstructures of boiler house, coal receiving house, pumping plant, and intake house at Howards Bend Plant, St. Louis Co., $1,000,000; also constructing grit and mixing chambers and settling basins, $1,000,000. A. Pritchard, City Hall, dir. Pub. Utilities.

Texas—D. Reinstra & associates, Nederland, making preliminary surveys, etc., waterworks system in Nederland and Port Neches. $35,000-$40,000 each. G. O'Neil, 2906 Maple St., Dallas, engr.

Tex., Childress — Election soon $35,000 bonds, extending waterworks. Address Mayor.

Okla., Clinton—Election in June to vote on bonds, 16 mi. 16- to 20-in. mains, dam, reservoir, filtration plant, etc. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, Mo., engrs. Noted Apr. 21.

Okla., Covington — Voted $35,000 bonds for waterworks extensions. C. A. Wood, Stillwater, engr. Noted Apr. 29.

Okla., Jennings — Making preliminary plans extending 12,300 ft. 4- to 8-in. c.i. mains in various streets. $20,000. A. W. Rogers, mayor. Engineer not announced.

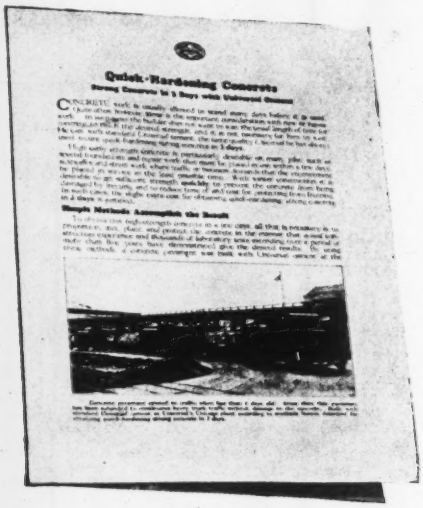
Okla., Mill Creek — Making preliminary plans new waterworks. $40,000. T. D. Lane, mayor. Engineer not selected.

Calif., Palo Alto—Voted $200,000 bonds, extending water system. J. F. Bxybee, Jr., city engr.

Calif., Sacramento — Making estimates extending filter beds at filtration plant (probably 8 new filters). $300,000 or more. H. C. Bottorff, city mgr.

Calif., Santa Ana — Orange Co. made plans 100,000 gal. elevated steel tank, 6,720 lin.ft. 4 and 6 in. c.i. pipe, 1,000 lin.ft. 2 in. steel pipe, deep well pump, etc. W. K. Hillyard, Santa Ana, engr.

See classified index on bids wanted on page 291


Quick-Hardening Concrete

Strong Concrete in 3 Days with Universal Cement

CONCRETE work is usually allowed to stand many days before it is used, or, in order that the builder does not wait for the required length of time for the concrete to reach the desired strength, and it is not necessary for him to wait. Universal cement is a quick-hardening cement, the same quality that has been in use for years, giving strong concrete in 3 days.

Simple Methods Accomplish the Result

For Rush Work

Strong Concrete in *3 Days*

On many of your rush jobs you do not like to wait the weeks usually required for concrete to reach the desired strength. You do not need to.

By using well-authenticated methods and standard *Universal* cement, the same quality *Universal* regularly used, you can obtain *strong* concrete in *3 days* and at the same time get a concrete that is much better and much stronger forever after.

The folder shown above explains the methods for obtaining this *time*-saving, high early strength concrete with standard *Universal* cement. A copy will be sent promptly upon request to

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Waterworks (Continued)

Calif., Ventura — Ventura Co. Water Works Dist. 2, voted $35,000 bonds, improving waterworks. C. W. Petit, Ventura, co. surv. Noted Apr. 1.

Bids Desired

Pa., Blairsville—May 25, by Boro Council, Municipal Bldg., 50 North Spring St., T. C. North, mgr., furnishing 10 in. Universal c.i. and 10 and 12 in. bell and spigot pipe, valves, etc., also installing above; adv. E. N.-R. May 13.

W. Va., Wheeling—May 25, by City, H. C. Lane, city clk., c.i. pipe and fittings, fire hydrants, etc. J. N. Chester, Engineers, Pittsburgh, Pa., engrs.; adv. E. N.-R. May 13.

S. C., York—May 27, by Town Clerk, 1 mg. purification plant, 1 earth dam, 150,000 gal. steel tank on 125 tower, 25,000 gal. steel tank on 35 ft. tower, 19,000 ft. 6- to 10-in. c.i. and 12,000 ft. 8-in. vitr. clay pipe. Carolina Eng. Co., 917 Johnson Bldg., Charlotte, N. C., engrs.

Ill., Lansing — May 18, by Bd. Local Impvts., 4,250 ft. 6 in. c.i. mains Ashdown, Williams & Co., 1530 Halsted St., Chicago Heights, engrs.

Wis., Appleton—May 17, by Water Comn., F. R. Morris, secy., furnishing two hundred to three hundred ⅝ in. disc water meters.

Wis., Kohler—May 17, by W. Nesemann, village clk., 8,900 ft. 6 in. c.i. mains in various streets. To exceed $15,000. J. Donahue Eng. Co., 608 North 8th St., Sheboygan, engrs. Noted Apr. 22.

Wis., Menomonie — May 15, by F. W. Rowe, city clk., 225,000 gal. rein.-con. saucer type reservoir, 48 ft. inside diam. and 17 ft. deep. To exceed $15,000. Noted Apr. 22.

Wis., Milwaukee—May 20, by Dept. Pub. Wks., R. E. Stoelting, comr., wrecking buildings west of engine room, etc., and constructing 60 x 176 ft., brick, concrete and steel addition to North Point Pumping Station. $400,000.

Que., St. Lambert — May 17, by City Council, pumping equipment, etc. Former bids rejected.

Bids Received

Pa., Phila.—Comrs. Fairmont Park, 127 City Hall, May 7, air lift pumping equipment at aquarium, East Fairmont Park, from Roberts Filter Mfg. Co., Darby, $4,480. Noted May 6.

California—State Hy. Comn., Sacramento, Apr. 26, widening and asphaltic concrete surfacing 2.8 mi. road between point 1 mi. south of Delano and north boundary, Kern Co. from Warren Constr. Co., Poplar and 28th Sts., Oakland, $49,419; also concrete widening and asphaltic concrete surfacing 5.1 mi. road between Santa Barbara and Goleta, Santa Barbara Co., from Cornwall Constr. Co., 227 Equestrian St., Santa Barbara, $134,709. Noted Apr. 8 and 15.

Contracts Awarded

Mass., Falmouth — Water Comrs., 6 mi. mains in various streets, to J. H. McCusker & Son, 62 Church St., Waltham. Engrs. est. $15,000 or more. Noted Apr. 15.

N. Y., Kingston—Bd. Water Comrs., City Hall, c.i. pipe Contr. A, to B. Nicoll & Co., 294 Madison Ave., New York City, $62,115, and valves, Contr. B, to Michigan Valve Co., 3631 Parkinson Ave., Detroit, Mich., $4,536. Noted Apr. 8.

N. Y., Nyack—Bd. Village Water Comrs., W. P. Bugbee, clk., improving waterworks, to J. L. Bried, West St., Englewood, N. J., $65,478; filter equipment, to J. E. Williams, New York City, $18,350; machinery, to Turbine Equipment Co., 30 Church St., New York City, $8,068; and tank and tower, to Tippet & Wood, Phillipsburg, N. J., $3,195. Grand total $95,091. Noted Apr. 8.

Ga., Atlanta—Waterworks improvements, incl. chemical house, mixing basin, 48 x 68 in. c.i. pipe, etc., to J. R. Cothran, Candler Bldg. Engrs. est. $140,000.

Mich., Detroit—Dept. Water Supply one hundred-fifty 12 in. D.W.S. gate valves, to Michigan Valve & Fdry Co., 3631 Parkinson Ave. at $60.15 each; also fifty 16 in. and twelve 24 in. D.W.S. gate valves to Feils Brass & Machine Wks., Chicago, Ill., at $150 and $500 each respectively.

Ill., Chicago — Dept. Pub. Wks., City Hall, 48 in. c.i. pipe and fittings for Western Ave. Pumping Station, 49th St. and Western Ave., to Crane Co., 836 South Michigan Blvd., $78,709. Noted Apr. 15.

Tex., Corsicana—J. P. Welch, city secy., 32,560 ft. 8- to 36-in. mains in various streets to Agar & Gentry, San Benito, $39,970.

Okla., Okmulgee — A. Baker, comr. Finance, new water supply, incl. dam, etc., to A. A. Davis & Co., Grain Exch. Bldg., Oklahoma City, $277,070. Noted Apr. 29.

N. D., Harvey—See "Sewers."

Sewers

Proposed Work

N. J., Hawthorne (Ind. br. Paterson)—Takes bids about July 1, sewerage system. $512,000. H. J. Harder, 129 Market St., Paterson, engr. Noted Mar. 12.

Pa., Johnstown—Plans to issue $350,000 bonds, of which $235,000 to be used, extending sanitary sewer sub-mains in Walnut Grove and Central Ave., and balance for repaving work. H. L. Wilson, city engr.

O., Canton — Making plans sanitary sewers, etc. in Lake Blvd. N. W., 9th, 10th, 11th and 12th Sts. $100,000. W. E. Sarver, City Hall, engr.

O., Delaware—G. B. Gascoigne, sanitary engr., Leader News Bldg., submitted report sewage disposal plant for city. $200,000.

Mich., Detroit—Made plans 1,671 ft. 12- to 18-in. vitr. sewer in Lateral 4513, and 709 ft. in Lateral 4586; 1,833 ft. 12- to 20-in. in Lateral 4514 and 2,027 ft. in Lateral 4587; 460 ft. 15- to 18-in. in Lateral 4537; 2,507 ft. 12- to 24-in. in Lateral 4562, 12,197 ft. in Lateral 4579, 13,463 ft. in Lateral 4580, 13,548 ft. in Lateral 4581, 2,916 ft. in Lateral 4588 and 3,936 ft. in Lateral 4589; 1,111 ft. 15- to 20-in. in Lateral 4566; 1,310 ft. 18- to 24-in. in Lateral 4568; 10,427 ft. 12- to 33-in. in Lateral 4576; and 616 ft. 18- to 20-in. in Lateral 4592. P. A. Fellows, city engr.

Ill., Highland Park—Making plans sewers in west side new annexed territory. $450,000. Windes & Marsh, Winnetka, engrs.

Ia., Burlington — Made plans and soon takes bids 5 to 6 ft. rectangular shape concrete and rein.-con. storm sewers in various streets. $100,000 bonds voted. Burns & McDonnell Eng. Co., 401 Interstate Bldg., Kansas City, Mo., engrs.

Ia., Washington—Making plans 33,849 ft. 8- to 24-in. sewers, etc. in various streets. $60,000. Central Eng. Co., Muscatine, engrs.

Kan., Onago—Making preliminary surveys sanitary sewerage system. $40,000. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, Mo., engrs.

Kan., Wathena — Making preliminary plans sanitary sewerage system. $42,000. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, Mo., engrs.

Neb., Hastings — Voted $150,000 bonds, sewage disposal plant. Henningson Eng. Co., Natl. Bank Bldg., Omaha, engrs. Noted Mar. 25.

Mo., St. Louis — Soon takes bids complete sewerage system for Sect. F Ohio-Montrose Public Relief Sewer. $68,900. W. W. Horner, 300 City Hall, engr.

Tex., Childress—Election soon $100,000 bonds, sewer extensions. Address Mayor.

Tex., Haskell—Soon takes bids extending sewers in various streets and sewage disposal plant. $65,000. Douglas & Mitchell Corp. Inc., 409 Perkins-Snider Bldg., Wichita Falls, engrs.

Okla., Allen—Making preliminary plans 7 mi. new sanitary sewers in all streets. $46,000. J. P. Leonard, mayor. Engineer not selected.

Okla., Covington — Defeated $35,000 bonds, extending sewers in various streets. C. A. Wood, Stillwater, engr. Noted Apr. 29.

Okla., Coweta—Making plans new sewerage system. $50,000. W. E. Davis, Cole Bldg., Tulsa, engr. Noted Apr. 22.

Okla., Red Fork — Making plans new sewerage system. $95,000. W. E. Davis, Cole Bldg., Tulsa, engr.

Calif., Vallejo—Making plans 4,000 ft. 24- to 36-in. vitr. sewer in North Vallejo section. City and Solano Co. appropriate toward cost. F. A. Steiger, Fairfield, co. surv. Noted Jan. 29, 1925.

Ont., Crystal Beach—Plans 12,000 ft. 8 in. vitr. tile storm and sanitary sewers in various streets. $60,000. Ross & Scott, Welland, engrs.

Ont., Riverside—Plans 30,000 ft. vitr. tile and concrete storm drainage sewerage system in area from Watson to Westminster Aves. $270,000. A. Smith, Riverside, engr.

Ont., Thornbury — Reeve Hutchinson plans sewerage system. $50,000.

Ont., Toronto—East York Twp. plans 465 ft. 12 in. vitr. tile sewer in Bracebridge Ave., and 230 ft. in Cedervale Ave. $8,730, also 2,118 ft. in Lumsden Ave. $19,955; and 665 ft. 12 in. and 365 ft. 18 in. in Holborne Ave. $13,207. G. R. Jack, 443 Sammon Ave., engr.

Ont., Toronto—York Twp. plans 2,780 ft. storm and sanitary sewers in Raymond Ave. from Brummell Ave. to west end, Brummell Ave. from Raymond Ave. to north end Clinch Ave. from Brummell Ave. to west end, and Baby Point Rd. from Thornhill Ave. to Belt Line Ry. tracks. $31,055. F. B. Goedike, 40 Jarvis St., engr.

Bids Desired

Mass., North Andover (Ind. br. Lawrence)—May 15, by P. H. Ellis, engr., City Hall, 4,000 ft. various sizes c.i. sewers in various streets. $25,000.

Mass., Reading — May 14, by Bd. Pub. Wks., storm water drainage works. $15,000. Barbour & Dixon, Tremont Bldg., Boston, engrs.

Mass., Reading — May 14, by Bd. Pub. Wks., 600 ft. 8 in., 1,000 ft. 10 in., 600 ft. 12 in., 1,250 ft. 15 in., 1,125 ft. 18 in. and 220 ft. 20 in. vitr. salt glazed pipe. Barbour & Dixon, Tremont Bldg., Boston, engrs.

Mass., West Roxbury (sta. Boston) — May 19, by Dept. Pub. Wks., Boston, sewerage works in Williams and Ashland Sts., here. $25,000. J. H. Sullivan, comr.

N. Y., Akron—May 28, Bd. Sewer Comrs., W. Kelly, clk., sewerage system and disposal plant. G. C. Diehl, Inc., 577 Ellicott Square Bldg., Buffalo, engr.; adv. E. N.-R. May 13. Noted Jan. 7.

N. Y., St. George — May 19, by J. A. Lynch, pres. Richmond Boro, Boro Hall, sanitary sewer in Van Name Ave. from Heusden St. to sewer easement point 1,935 ft. southerly therefrom.

Pa., Westmont (Johnstown P. O.)—May 17, by Boro Council, H. P. Shomo, Greene St., secy., 275 ft. 4 x 4 rein.-con. box culvert, also 3,050 ft. 10- to 24-in. terra cotta storm and 9,650 ft. 8 and 10 in. terra cotta sanitary sewers, etc., in Menoher Highway, South, North and Yale Aves., Luzerne, Frances, West and Tioga Sts. O. P. Thomas, Park Bldg., Johnstown, boro engr. Noted Apr. 15 under "Streets and Roads."

S. C., York—See "Waterworks."

Ala., Selma—May 31, by City Council, 3 mi. concrete and brick sewers in various streets in East and West Selma. $250,000. W. O. Crisman, Selma, engr.

Tenn., Murfreesboro — May 20, by City Manager, and 118,710 ft. 6- to 21-in. sewers in various streets, concrete disposal plant. B. H. Klyce, 4th and 1st Natl. Bank Bldg., Nashville, engr.

O., Akron—May 20, by W. F. Peters, dir. Pub. Serv., building 170,000 ft. fill up to grade to carry outfall sewer leading to new disposal plant in Big Cuyahoga River Interceptor Subgrade, $80,000; constructing 2,627 ft. 8- to 24-in. vitr. clay sewer in Morgan Ave. $15,000, 3,030 ft. 8 in. in Hardesty Blvd. $12,300, and 2,600 ft. 8 in. in Dover St. $9,490. J. E. Root, Municipal Bldg., engr.

O., Cleveland — May 19, by Bd. Comrs. Cuyahoga Co., 8,300 lin.ft. 8- to 54-in. and 6,000 lin.ft. 8- to 36-in. sewers in vicinity Broadview and Brookpark Rds. Co. Sewer Dist. 2, Impvt. 75, Sects. "A" and "B." L. Simon, clk.

O., Cincinnati—May 17, by Director Pub. Serv., 587 ft. 24 in. vitr. clay and 1,956 ft. 33- to 51-in. brick or concrete sewer in ravine north Foley Rd. $26,700. C. O. Sherrill, City Hall, engr. Noted Feb. 11.

Mich., Detroit—May 19, by Dept. Pub. Wks., 4,207 ft. concrete sewer in Jefferson Ave. and on city property from Jefferson Ave. to Detroit River. P. A. Fellows, city engr.

Ill., Calumet Park (mail Chicago) — See "Waterworks."

Ill., Libertyville—May 18, outfall sewers and sewage disposal plant. $90,000. Former bids rejected. Kelker & De Leuw & Co., 111 West Washington St., Chicago, engrs. Noted Apr. 29.

Wis., Janesville—May 15, by H. Traxler, city mgr., 22,778 ft. 10- to 48-in. concrete sewers, etc. in various streets. C. V. Kerch, City Hall, engr.

Wis., Kohler—May 17, by W. Nesemann, village clk., 11,709 ft. 8- to 21-in. vitr. or concrete sewers in various streets. J. Donahue Eng. Co., 608 North 8th St., Sheboygan, engrs. Noted Apr. 22.

Minn., St. Paul—May 18, by A. E. Eggert, city purch. agt., constructing Trout Brook Sewerage System, Contr. B. $250,000. G. M. Shepard, city engr.

Mo., St. Louis—June 8, by Bd. Pub. Serv. 208 City Hall, 1,365 ft. 10- to 18-in. vitr. clay sewers in Glaise Creek Dist. 25, $2,650; 12,975 ft. 8- to 48-in. vitr. clay, brick and segmental block sewers in Glaise Creek Dist. 26, $73,000; and 6,115 ft. 12- to 39-in. sewers in Sect. "F" Ohio-Montrose Sewer Dist., $59,000. Noted Jan. 7.

Tex., Haskell—May 20, by Douglass & Mitchell Corp., Inc., engrs., 409 Perkins-Snider Bldg., sewer extensions and disposal plant, here, for City. $65,000. Noted May 13.

Bids Received

Me., South Portland (br. Portland)—W. E. Brown, secy. South Portland Sewerage Dist., City Hall, constructing Sect. 2 of

SHOES

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Sewers (Continued)

trunk sewer, Contr. B, from Forgione & Romano, Walnut St., high level, $102,794, and low level, $99,554. Noted Apr. 8.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., cutlet barrel stave sewer and pumping facilities at 5th Ave. near 10th St., Flushing Bay, College Point incl. pumping stations and connections between sewers, from Fischbach & Moore, Inc., 222 East 42nd St., New York City, $39,470. Noted Apr. 29.

Md., Baltimore—Mayor and City Council, May 5, constructing Presstman St. Division Drain, Storm Water Contr. 97, from Carozza-Rowe Constr. Co., 624 North Gilmor St., $479,972. Noted Apr. 22.

Wis., Wauwatosa—Bd. Pub. Wks., A. V. Brigham, secy., Apr. 30, 4,975 ft. 15- to 48-in. rein.-con. sewers in West North, Stickney, Clyde and Ludington Aves., etc., from Nevada Constr. Co., 466 Milwaukee St., Milwaukee, $46,570. Noted Apr. 22.

Wash., Seattle—Bd. Pub. Wks., from McHugh & Coluccio, 517 3rd Ave. N., sewers in 43rd Ave. S. et al., 3,575 lin.ft. 8 in. pipe at $1.74 per ft., 4,550 lin.ft. 10 in. $1.84, 3,227 lin.ft. 12 in. $2.10, 575 lin.ft. 15 in. $2.80, 185 lin.ft. 18 in. $3.50, 148 lin.ft. 24 in. $5.05, 258 lin.ft. 30 in. $7.37, 4,655 lin.ft. 6 in. side conn. $1.25, etc., total $42,-270.

Contracts Awarded

Mass., Boston—Dept. Pub. Wks., sewerage works in Colradi and Orlando Sts., Dorchester, to J. J. Conway, 19 Beethoven St., Roxbury, $14,361; and in Vose St., Hyde Park, to Zoppo & Civitarse, 48 Metropolitan Ave., Hyde Park, $16,416. Noted Apr. 22.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, repairing sewer basin culverts in various streets, to Manmill Constr. Co., 2035 Douglass St., $16,520. Noted Apr. 29.

Miss., Hattiesburg—For 13,000 ft. 6- to 10-in. vitr. clay sewers in various streets, to R. T. Meyers Constr. Co., Hattiesburg, $20,043; 2 septic tanks, etc., to T. M. Crymes, Hattiesburg, $2,150. Noted Oct. 8.

Tenn., Cookeville—For 12,900 ft. 8- to 18-in. vitr. clay sewers in various streets, to W. P. Morris, Cookeville, $20,949. Engrs. est. $25,000. Noted Apr. 29.

Ill., Phoenix — Improving sewers in various streets, to E. K. Ladd, Peotone, $234,901.

Wis., Milwaukee—W. Barbeau, town clk., Sta. D, 20,268 ft. 8 in. and 1,568 ft. 15 in. vitr. or concrete sewers in various streets, for Lake Twp., to Wenzel & Henoch Constr. Co., 498 27th St. at $1.89 to $3.45 per ft. and $2.70 and $7.89 per ft. respectively.

N. D., Harvey—L. W. Miller, city aud., improving sewers and water system, to Gjellefald-Chapman Constr. Co., Forest City, Ia. $87,000. Noted Apr. 8.

Mo., St. Louis—See "Streets and Roads."

Calif., Oakland—For 5,421 lin.ft. 12- to 18-in. vitr. sewer and 25 lin.ft. 15 in. vitr. sewer with concrete jacket, etc. in portion of Chabot Rd., to Fredrickson & Watson, 354 Hobart St., $39,635. Noted Apr. 22.

Ont., Toronto — To W. E. Taylor, 22 Falcon St., vitr. tile sanitary and storm sewers in Athletic Ave. $893 and Chaplin Crescent $1,627; to National Contg. Co., 9 Garnock Ave, Oriole Parkway $7,870 and Sydenham St. $1,298; to Ruscica Bros., 84 Woodycrest Ave., lanes near Gerard St. and Hastings Ave. $2,593, Tranner Ave. $2,509, Highbourne Rd. $2,678 and Eastbourne Ave. $2,775, to Grant Contg. Co., 47 Wellington St. E., Selwood Ave. $2,390, Hubbard Ave. $13,470, Scarboro Beach Blvd. $5,680, Glenmanor Dr. $5,280, Hammersmith Ave. $5,570, and Wineva Ave. $6,480, to city, by day labor, Bondfield Ave. $1,281. Grand total $62,394.

Waste Disposal

Bids Desired

Fla., Sanford — May 17, by City Comrs., purchasing 40 ton per 10 hr. incinerator, to be completed and tested. $25,000.

Bridges

Proposed Work

Mississippi — Bd. Supervs. Harrison and Hancock Counties, Chancery Court, Bay St. Louis, rejected bids creosoted bridge over Bay of St. Louis between Bay St. Louis and Pass Christian. Will re-advertise. Noted Apr. 29.

Miss., Greenwood—Voted $65,000 bonds, bridge and approaches over Tallahatchie River.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making designs and estimates rein.-con. bridge and approaches over Rock Creek, Marshall Co. To exceed $25,000. C. N. Bass, highway comr.

Tenn., Elizabethton—Voted $40,000 bonds, bridge over Doe River, at Elk Ave.

Kentucky — State Hy. Dept., Frankfort, plans seven 50 ft. span concrete deck girder bridge over Skeggs Creek, on Jackson Highway, Barren Co.; also one 180 ft. and four 50 ft. span concrete deck girder bridge on Jackson Highway, Barren and Allen Counties. E. N. Todd, highway engr.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids Mar. 31, steel superstructure on Route 24, Sect. 14-C, Sangamon Co., 179,-066 lb. reinforcing, etc. F. T. Sheets, ch. engr. Noted Apr. 15.

Ark., North Little Rock (br. Little Rock) —Viaduct Dist. 1, c/o J. Matthews, 120 West 2nd St., Little Rock, will receive competitive sketches from engineers on May 18, 1,300 ft. rein.-con. viaduct, 60 ft., with 40 ft. roadway and 10 ft. sidewalks, spanning 8 tracks Missouri Pacific R.R. and 1 of Chicago, Rock Island-Pacific R.R. $300,000. Engineer not selected.

Tex., Clarksville — See "Streets and Roads."

Calif., Los Angeles — Voted $1,900,000 bonds, constructing 4 new viaducts and renewing 10 existing bridges.

Ont., St. Thomas — City and Elgin Co. plan repairing concrete and steel bridge on Wilson Ave. $25,000. W. C. Miller, City Hall, and J. A. Bell, County Bldg., engrs.

Bids Desired

New York—May 25, by T. F. Farrell, comr. Canals & Waterways, Dept. Pub. Wks., 55 Lancaster St., Albany, highway bridge across Glens Falls feeder Canal, at Glen St., Glen Falls, Contr. M-19, and highway bridge over same canal, at Pearl St., Hudson Falls, Contr. M-20; adv. E. N.-R. May 13.

Pa., Mercer—June 1, by Comrs. Mercer Co., Bridge 1802, Pymatuning Twp., and Bridge 1012, Perry Twp., etc. F. P. Graham, Grove City, co. engr.; adv. E. N.-R. May 13.

Pa., Washington — See "Streets and Roads."

South Carolina—See "Streets and Roads."

Fla., Jacksonville—June 1, by F. Brown, clk., Duval Co., Court House, constructing Big Six Mile Creek and Trout Creek Bridges, on Kings Rd. 3. T. B. Carrick, 305 Court House, co. bridge engr.; adv. E. N.-R. May 13.

Ill., Maunie—See "Contracts Awarded."

Wisconsin—See "Streets and Roads."

Calif., Santa Cruz—June 1, by State Hy. Comn., Sacramento, constructing two 8 x 10 ft. rein.-con. box culvert extensions 14 ft. long, between Boulder Creek and California Redwood Park at Hess Brook; 6 x 8 ft. rein.-con. box culvert, 64 ft. long, at Maddocks Creek; 20 ft. span rein.-con. girder bridge across Boulder Creek; and 4 x 4 ft. rein.-con. box culvert, 86 ft. long, at unnamed creek. R. M. Morton, Forum Bldg., Sacramento, engr.

Bids Received

Louisiana—State Hy. Dept., Baton Rouge, Apr. 29, 80 ft. low riveted concrete and steel Leathermans Creek Bridge, 1 mi. south Athens, on Arcadia-Homer Highway, Federal Aid Project 85-D, Claiborne Parish, from Kulze Hampton Co., Fordyce, Ark., $19,209; also reconstructing and repairing Calcasieu River Bridge, at Lake Charles, on Lake Charles-West Lake Highway, State Aid Project 461, Calcasieu Parish, from Austin Bridge Co., 1813 Clarence St., Dallas, Tex., $180,460. Noted Apr. 8.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, May 5, one 30 ft. and two 40 ft. concrete girder bridges and substructure for 70 ft. steel span bridge on Route 13, Sect. 16-B, Perry Co., from G. H. Goodlink, Lawrenceville, $14,346; one 70 ft. steel superstructure on Route 13, Sect. 16-C, Perry Co., 51,380 lb. reinforcing, etc., from Vincennes Bridge Co., Vincennes, Ind., $3,964; and one 160 ft. steel superstructure on Route 24, Sect. 14-C, Sangamon Co., 179,-060 lb. reinforcing, etc., from Illinois Steel Bridge Co., Jacksonville, $11,627. Noted Apr. 29.

Texas—See "Streets and Roads."

Tex., Cameron—Milam Co., bridges on Highway 43, Federal Aid Project 494-A, from Davis-Pace Co., 1306½ Young St., Dallas, $71,000.

California—State Hy. Comn., Sacramento, 180 ft. open spandrel arch and four 32 ft. girder approach span rein.-con. bridge over Smith River, near Adams Station, Del Norte Co., from Smith Bros., Eureka, $39,-274. Engrs. est. $39,578. Noted Apr. 8.

Contracts Awarded

Maine — State Hy. Dept., Augusta, constructing Baileys Island Bridge in Harpswell, to F. W. Carlton, Woolwich, $103,570; Hobart St. Bridge in Edmunds, to Burbee Constr. Co., Gardiner, $37,602; Handy Brook Bridge in Readville, to Town of Readville, $2,419; Mill Bridge in Stetson, to Smith & Tweedie, Westfield, $4,759; Toddy Pond Bridge in Orland, and Woodman's Bridge in Searsmont, to Green & Wilson, Waterville, $4,752 and $10,964 respectively; Butler Bridge and Great Works Bridge in New Portland, to U. Netivier, Rumford, $9,315 and $9,972 respectively. Grand total $183,353. Noted May 6.

North Carolina — State Hy. Dept., Raleigh, rein.-con. bridge on Project 244, Jones Co., to E. A. Wood & Co., Andrews, $44,688. Noted Mar. 18.

South Carolina—See "Streets and Roads."

Fla., St. Petersburg — Snell Isles & Shores Acres Companies, 300 ft. concrete bridge, Smacks Bayou, to E. W. Coons Co., Hibbing, Minn., $100,000.

O., Cincinnati — Comrs. Hamilton Co., Court House, 2 span, 78 ft. concrete girder bridge, on Red Bank Rd., to United Constr. Co., 3342 Burnet Ave., $16,979. Engrs. est. $25,000. Noted Mar. 25.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, one 150 ft. span steel superstructure, incl. temporary road and bridge, Route 1, Sect. 2-C, Iroquois Co., 160,030 lb. reinforcing, etc., and steel superstructure on Route 43-A, Sect. 2-C, Menard Co., 1,444,910 lb. reinforcing, etc., to Vincennes Bridge Co., Vincennes, Ind., $22,180 and $88,389 respectively, rein.-con. bridge on Route 38, Sect., 3-B, and 3 rein.-con. bridges on Route 38, Sect. 6-B, Jersey Co., to Tritt Bros., Belleville, $20,092; rein.-con. bridge on Route 13, Sect. 4-B, Saline Co., to Riley & Tanner, Stonefort, $9,150; rein.-con. bridge on Route 43-A, Sect. 2-B, Menard Co., to I. D. Lain, Bloomington, $30,741; and sidewalks on bridge Route 36, Sect. 10-P, Adams Co., to H. L. Roberts, Rushville, $1,971. Grand total $332,853. Noted Apr. 15.

Ill., Maunie—Louisville & Nashville R.R. Co., Louisville, Ky., W. H. Courtnay, ch. engr., will build rein.-con. and steel bridge, here, by day labor, fabrication steel spans for same, to Amer. Bridge Co., Frick Bldg., Pittsburgh, Pa. $200,000.

Wisconsin—See "Streets and Roads."

Kan., Eldorado—Butler Co., one 150 ft. span, marsh arch bridge, 26 ft., 20 ft. roadway, and 6 ft. sidewalk, 57,336 lb. structural steel, 73,618 lb. steel bars, etc., here, to Western Bridge Co., Harrisonville, Mo., $34,768. Noted Apr. 1.

South Dakota—State Hy. Dept., Pierre, **(F. A. P. means Federal Aid Project and S. A. P. means State Project)**, to Pioneer Bridge Co., Mitchell, bridges on F. A. P. 158-B, Clay Co. $53,310, F. A. P. 162-C, Jackson Co. $26,606, 185-F, Jones Co. $7,213, and 206-B, Butte Co. $20,624; to Iowa Bridge Co., Des Moines, Ia., bridges on F. A. P. 183-B, Spink Co. 4,310; to W. A. Barnhart Constr. Co., Salem, F. A. P. 191-E, Kingsbury Co. $2,286, and 194-B, Hand Co. $3,460; to Diamond Eng. & Constr. Co., Grand Island, Neb., F. A. P. 194-C, Brule Co., $13,701; to Western Bridge & Constr. Co., Omaha, Neb., S. A. P. 133, Moody and Minnehaha Counties, $21,000; and to M. A. Stump, Mobridge, S. A. P. 42, Corson Co., $11,047. Grand total $163,557. Noted Apr. 15.

Tex., Boston—See "Streets and Roads."

Tex., Huntsville — See "Streets and Roads."

Tex., Sweetwater — See "Streets and Roads."

Calif., San Pablo — State Hy. Comn., Forum Bldg., Sacramento, three 34 ft. span, rein.-con. bridge over San Pablo Creek, here, to R. B. McKenzie, Gerber, $20,650. Engrs. est. $21,710. Noted Mar. 18.

Railways

Proposed Work

Texas—Panhandle & Santa Fe Ry. Co. (subsidiary of Atchison, Topeka & Santa Fe Ry. Co., C. F. W. Felt, ch. engr., 80 East Jackson Blvd., Chicago, Ill.), plans approximately 30 mi. branch line in Carson and Hutchinson Counties, here.

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We will gladly send you an ample supply of convincing testimony on paving cost, taken from official public records, the kind of facts and figures which will help you convince your business associates, neighbors and friends of the economy of paving with vitrified brick. Simply let us know that you are interested.

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Wilkes-Barre, Pa.
Cleveland Brick & Clay Company
Cleveland, Ohio
Clydesdale Brick & Stone Co.
Pittsburgh, Pa.
Coffeyville Vitrified Brick & Tile Co.
Coffeyville, Kans.
Collinwood Shale Brick Company
Cleveland, Ohio
Corry Brick & Tile Company
Corry, Pa.
Francis Vitric Brick Company
Boynton, Okla.
Georgia Vitrified Brick & Clay Co.
Augusta, Ga.
Globe Brick Company
East Liverpool, Ohio
Hisylvania Coal Co.
Columbus, Ohio
Hocking Valley Brick Company
Columbus, Ohio
Independence Paving Brick Co.
Independence, Kans.
McAvoy Vitrified Brick Company
Philadelphia, Pa.
Metropolis Paving Brick Co.
Pittsburg, Kansas
Metropolitan Paving Brick Co.
Canton, Ohio
Mineral Wells Brick Co.
Mineral Wells, Texas
Moberly Paving Brick Company
Moberly, Mo.
Murphysboro Paving Brick Co.
Murphysboro, Ill.
Nelsonville Brick Co.
Nelsonville, Ohio
Peebles Paving Brick Company
Portsmouth, Ohio
Peoria Brick & Tile Company
Peoria, Ill.
Purington Paving Brick Company
Galesburg, Ill.
Southern Clay Mfg. Company
Chattanooga, Tenn.
Springfield Paving Brick Company
Springfield, Ill.
Sterling Brick Company
Olean, N. Y.
Streator Clay Mfg. Company
Streator, Ill.
Thornton Fire Brick Co.
Clarksburg, W. Va.
Thurber Brick Company
Ft. Worth, Texas
Toronto Fire Clay Company
Toronto, Ohio
Trinidad Brick & Tile Company
Trinidad, Colo.
Veedersburg Paver Company
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Western Shale Products Company
Fort Scott, Kans.
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Baltimore, Md.

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The Pavement That OUTLASTS The Bonds

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Miss., Bay St. Louis—Hancock Co. Road Protection Com., R. C. Engman, chn., making preliminary plans for 11 mi. seawall, incl. Waveland Wall and extending to Bayou Caddo, and connecting Bay St. Louis seawall on North and Bay Ladosse near south of Jordan. J. W. Billingsley, Interstate Bldg., New Orleans, La., engr.

Mo., Cape Girardeau — Supervs. Little River D.D., rejected bids Apr. 19, concrete spillway, 2,500 cu.yd. excav., 8,000 ft. sheet piling, 160 cu.yd. slope paving, etc. Will readvertise. Morgan Engr. Co., 622 Goodwyne Institute, Memphis, Tenn., engr. Noted Apr. 8.

Tex., Port Arthur — Election June 15, $50,000 bonds shell revetment on banks Sabine-Neches Canal. O. M. Bower, city engr.

Calif., Long Beach — Plans deepening 2,900 ft. connecting channel between Long Beach and Los Angeles Harbors 32 ft. deep. $125,000 or more.

Bids Desired

Mass., Falmouth—May 20, by Dept. Pub. Wks., Div. Waterways, Boston, 402 lin.ft. creosoted timber breakwater at entrance West Falmouth Harbor. $25,000. W. F. Williams, comr.

N. Y., Albany—June 4, by T. F. Farrell, comr. Canals & Waterways, stone breakwater, etc., at Sylvan Beach, Erie Canal-Sect. 5, Contr. 233; adv. E. N.-R. May 13.

New Jersey—May 27, at office Bd. Commerce & Navigation, State House, Trenton, V. Gelineau, dir., dredging Inland Waterway Channel from Atlantic City through Great Bay to Grassy Channel near New Inlet, Atlantic Co.; adv. E. N.-R. May 13.

Fla., Bradentown—May 31, by M. D. McElroy, secy. Bd. Supervs. Manatee Valley D. D., Manatee Co., 32 Giddens Bldg., Tampa, constructing mains and laterals, etc., 392,374 cu.yd. excav. $40,000. McElroy Eng. Co., 32-34 Giddens Bldg., Tampa, engr.

Mo., St. Louis — June 15, by Bd. Pub. Serv., 208 City Hall, approximately 7,500 ft. revetment work in Missouri River at Howards Bend Waterworks, St. Louis Co. $150,000. J. Pritchard, City Hall, dir.

Contracts Awarded

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rip-rap embankment, outside and adjacent to timber bulkhead along Beach Channel Dr. from Beach 130th to 141st Sts., to Vouker Contg. Co., 17 State St., New York City. $48,950. Noted Apr. 8.

Miss., Sardis—Comrs. Sand Bayou D.D., drainage work, to J. L. McWilliams, Exch. Bldg., Memphis, Tenn., at $0.14 per cu.yd. Noted Apr. 1.

Streets and Roads

Proposed Work

Connecticut—See "Unclassified."

Pa., Bristol—Rejected bids concrete paving, etc., 8,000 ft. Otter, Mill and Radcliffe Sts. Will readvertise. Noted Apr. 8.

Pa., Johnstown—See "Sewers."

W. Va., Morgantown — Grant Dist., Monongalia Co., voted $465,000 bonds, improving roads. A. J. Baritell, Morgantown, co. engr.

W. Va., Richwood—Election in June $70,000 bonds, improving various streets. J. Bennett, street comr.

Ga., Atlanta—Plans concrete paving 2 mi. Marietta Rd. $50,000.

Fla., Tampa—Plans granite curbing and vitr. brick paving and repaving Highland Ave. from Keyes to 26th Aves., and Lee St. from Parker to Bay Sts., $29,572; 34th St. from 21st to 30th Aves., $55,448; Grand Central Ave. from Magnolia to Plant Aves., $28,867; Morgan St. from Whiting to Water Sts., $39,931; 2nd Ave. from 13th to 22nd Sts., $90,319; Jefferson St. from Polk to Whiting Sts., $59,107; Jefferson St. between Whiting and Cumberland Aves., and Bay St. from Lee to Platt Sts., $33,400; also Jefferson St. from Cumberland to Water Sts., $28,135. R. D. Martin, City Hall, engr.

Miss., Laurel—Making preliminary plans grading, curbing and paving 5th Ave. from 13th and 15th Sts., Magnolia St. from Queen to Holmes Sts., South 5th St. from Van Buren to Jefferson Sts., and 3rd Ave. from 10th to 15th Sts. To exceed $25,000.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 15 mi. Huntington-Gibson Co. line Rd., Carroll Co. C. N. Bass, highway comr.

Tennessee—State Dept. Highways & Pub. Wks., NaNshville, takes bids about June 11, grading, etc., 7 mi. Bartlett-Memphis Rd., Shelby Co., 5 mi. La Follette-Klysth Rd., Campbell Co., and 6 mi. road from State Aid Project 322 to Madisonville, Monroe Co.; and grading and probably asphalt on concrete paving 8 mi. National Cemetery-Manskers Rd., Davidson Co. C. N. Bass, highway engr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, plans asphalt surfacing 30 mi. Memphis-Bristol Highway, from Dickson to Tennessee River. To exceed $25,000. C. N. Bass, highway comr.

Tenn., Carthage—Smith Co. election soon $150,000 bonds, improving 11 mi. Carthage-Putman Co. line Rd. State appropriates toward cost. C. N. Bass, highway comr.

Tenn., Clarksville—Election soon $27,000 bonds paving various streets.

Kentucky — State Hy. Dept., Frankfort, takes bids in June, high type surfacing 5 mi. Owingsville-Farmers Rd. Bath Co., 7 mi. West Dixie Highway from Upton to Bonnieville Hart Co., and 2.5 mi. same highway from Horse Cave to Barren Co. line, Hart Co.; waterbound macadam, bituminous macadam or rock asphalt on limestone surfacing 9 mi. Jeff Davis Highway from Hopkinsville to Fairview, Christian Co., Franklin-Bowling Green Rd., Simpson Co. (cost not to exceed $50,000), and Bowling Green-Franklin Rd., Warren Co. (cost not to exceed $50,000); gravel surfacing 13 mi. Louisville-Paducah Rd., Crittenden Co., 9.1 mi. Louisville-Paducah Rd., Livingston Co., and 8 mi. Edmonton-Glasgow Rd., Metcalf Co.; grading 2.5 mi. Owensboro-Leitchfield Rd., and 4 mi. Utica-McLean Co. line Rd., both Daviess Co., 6.5 mi. Mayo Trail from Prestonberg to Allen Floyd Co., 5 mi. Elizabethtown-Leitchfield Rd., Hardin Co., 11 mi. Whitesburg-Hazard Rd., Knott Co., and 1.5 mi. Whitesburg-Hazard Rd., Letcher Co. E. N. Todd, highway engr.

Ky., Flemingsburg — Fleming Co. voted $300,000 bonds, improving roads.

Ky., New Castle—Henry Co. voted $400,000 bonds, improving roads.

Ky., Paducah—City and McCracken Co. voted $500,000 bonds, constructing roads. State appropriates $750,000 towards cost. Noted Mar. 4.

O., Alliance — City Council soon takes bids paving and widening Union Ave. $35,000. H. Anderson, Alliance, engr.

O., Alliance — Bd. Control soon takes bids asphalt resurfacing South Liberty Ave. from Summit to College Sts. $41,200. H. Anderson, Alliance, engr. Noted Mar. 25.

O., Cincinnati—Hamilton Co. plans improving Drake Rd. from Indian Hill Rd. to point 2,900 ft. north Shawnee Run Rd., 14,000 cu.yd. grading, 4,800 sq.yd. 6 in. tar macadam base course, and 18,900 sq.yd. 3 in. tar macadam top course, etc., $36,348. E. A. Gast, Court House, engr.

O., Columbus—Made plans grading, curbing, laying necessary sewer and water connections and paving with (a) brick (b) asphalt 407 ft. Winner Ave. from Granville St. to Mt. Vernon Ave., (a) $5,283 (b) $4,694, 2,250 ft. Campbell Ave. from Sandusky St. to Avondale Ave. (a) $37,169 (b) $33,011, 381 ft. Markison Ave. from High St. to west terminus (a) $7,628 (b) $6,899, and 503 ft. Ellsworth Ave from Columbus St. to South terminus (a) $12,696 (b) $11,680, all foregoing 24 ft., 1,005 ft. Binns Blvd. from Sullivant Ave. to Dartmoor Rd. (a) $22,016 (b) $20,106, 420 ft. Kimball St. from Mitchell St. to alley west of Belle St. (a) $8,353 (b) $6,430, 714 ft. Salisbury Ave. from Sullivant Ave to South terminus (a) $17,130 (b)$15,690, and 850 ft. Powell Ave. from Broad to Olive Sts. (a) $13,688 (b) $12,176; all foregoing 26 ft.; 949 ft. Washington Ave. from Broad to Long Sts., 33 ft. (a) $16,093 (b) $14,038; also 173 ft. Mitchell St. from Broderick to Kimball Sts., 30 ft. (a) $3,197 (b) $2,777. R. H. Simpson, city engr.

Ind., Anderson — Madison Co. making plans grading, curbing and concrete paving West 16th St. from Locust to Arron Aves., 30 ft., $20,000; and ¾ mi. Kimberling Rd. (38th St.), 28 ft., $28,000. M. A. Steele, Court House, engr.

Mich., Detroit—Making plans grading and 3½ in. sheet asphalt on 8-in. concrete paving 10,300 sq.yd. Turner Ave., $41,280; 5,360 sq.yd. Leslie St. $21,460; 11,950 sq.yd. Haverhill Ave. $47,770; 9,180 sq.yd. Hartwell Ave., $36,670; 12,670 sq.yd. Liddesdale Ave., $50,690; 8,120 sq.yd. Gitre Ave., $32,510; 3,940 sq.yd. Ferry Ave., $15,780; 2,100 sq.yd. Faircrest St., $8,600, 4,340 sq.yd. Wark St., $17,370; 1,400 sq.yd. Neal St., $6,200; 3,110 sq.yd. Kentucky Ave., $12,460; 2,700 sq.yd. Hollywood St., $10,930; 3,520 sq.yd. Milton St., $14,080; 1,700 sq.yd. Miles Ave., $6,810; 8,750 sq.yd. Welland Ave., $35,040; and 26,110 sq.yd. Northwestern Dr., $104,440. P. A. Fellows, City Hall, engr.

Ill., Glencoe — Plans concrete paving Sheridan Rd. $200,000. Windes & Marsh, Winnetka, engrs.

Ill., Graysville—Phillips Twp. voted $30,000 bonds, gravel surfacing 12 mi. roads; Burnt Prairie voted $25,000 bonds, gravel surfacing 5.25 mi. road, and Gray Twp. voted $4,000 bonds improving 1.75 mi. road, all in White Co. G. H. Brown, Carmi, co. supt.

Ill., Highland Park—Making plans concrete paving 2 mi. various streets, 19 ft., in Raimie Highlands sub-division. $100,000. Windes & Marsh, Winnetka, engrs.

Ill., Winnetka — Plans concrete paving Center St. $200,000. Windes & Marsh, Winnetka, engrs.

Wis., La Crosse—C. C. Congdon, engr., City Hall, rejected bids Apr. 23, one and two course rein.-con. paving, etc., approximately 72,000 ft. various streets, and 34,097 sq.ft. various alleys, for City. Will readvertise.

Wis., Manitowoc—A. H. Zander, city clk., rejected bids Apr. 2, paving, etc., 39,607 sq.yd. various streets. F. Alter, City Hall, engr. Will readvertise. Noted Mar. 25.

Ia., Sioux City—Plans grading, curbing and hard paving 12,450 sq.yd. Wall St. from 6th to 14th St. L. N. Hintgen, City Hall, engr.

Ia., Washington—Washington Co. election June 7th, $962,160 bonds, grading, bridging gravel surfacing, etc. 137 mi. roads. W. P. Rawn, Washington, co. engr.

Kan., Coldwater — Comanche Co. plans grading, etc. 4.593 mi. Federal Aid Project 337-A, 28 ft. L. M. Leiter, Coldwater, co. engr.

Kan., Kansas City—Wyandotte Co. making plans concrete surfacing 6.549 mi. various roads, 18 ft. To exceed $25,000. O. K. Williams, Court House, engr.

Kan., Valley Falls—Making plans paving various streets. $25,000. Shockley Eng. Co., 800 Graphic Art Bldg., Kansas City, Mo., engrs.

Mo., Mexico—Takes bids about May 15, grading, and 6 in. rein.-con. paving, etc. 11,000 sq.yd. Wade St. and Western Ave. M. M. Edwards, Mexico, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, soon takes bids Warrenite paving 16,375 sq.yd. Hartford Ave. $66,500, and 76,320 sq.yd. Kingshighway $244,000; vibrolithic concrete paving 2,180 sq.yd. Tiffany St., $14,500; amiesite paving 2,445 sq.yd. Penrod St. $18,300, 1,310 sq.yd. Adkins St. $11,300, 2,215 sq.yd. Bischoff St. $19,300, 1,125 sq.yd. 38th St. $7,950, 1,915 sq.yd. Wyoming St. $14,050 and 2,890 sq.yd. Tamm Ave. $25,960; asphaltic concrete paving 2,160 sq.yd. Wanda St., $12,700; also asphalt paving 23,160 sq.yd. 9th St. $55,000, and 9th St. between Bremen and Angelies Sts. $13,400. W. W. Horner, 300 City Hall, engr.

Ark., Bentonville — Making preliminary plans paving various streets. To exceed $25,000. Black & Veatch, 701 Mutual Bldg., Kansas City, Mo., engrs.

Ark., Helena—Soon takes bids resurfacing 9,000 sq.ft. Cherry St. L. R. Parmelee, city engr.

Tex., Anson — Jones Co. making plans bituminous macadam surfacing 15.27 mi. Highway 18, Federal Aid Project 477-C, Unit 2. $140,000. J. W. Puckett, Stamford, engr.

Tex., Anson — Jones Co. making plans bituminous macadam surfacing 17.8 mi. Highway 93 from Hamlin to intersection with Highway 30, 18 ft. $160,000. J. W. Puckett, Stamford, engr.

Tex., Bay City—Matagorda Co. making plans shell paving 2½ mi. highway from Palacios to State Military Camp, 20 ft. $30,000. E. N. Gustafson, Bay City, engr.

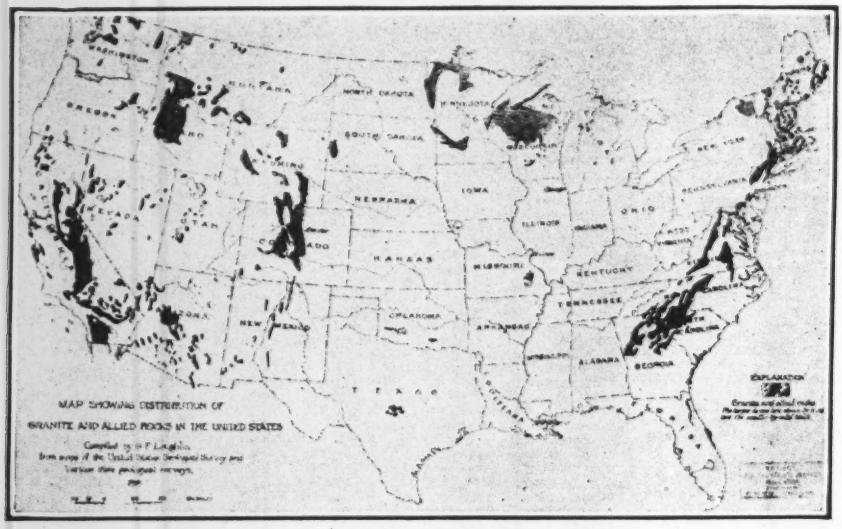
Tex., Clarksville—Red River Co. making plans grading and bridging 6.269 mi. Highway 5-A, $50,000. M. P. Homeyer, Clarksville, engr.

Tex., Hillsboro—Hill Co. takes bids after May 15, bituminous surfacing 4.85 mi. Highway 2-E, $27,400; also 3.91 mi. Highway 6, $25,000, both 18 ft. D. Morris, Waco, div. engr.

Tex., San Juan — Voted $60,000 bonds hard paving various streets. Address Mayor.

Oklahoma — State Hy. Dept., Oklahoma City, made surveys grading, etc. 8 mi. Ripley-Stillwater Rd. 18, Payne Co. $45,000. J. M. Page, highway engr.

Oklahoma—State Hy. Dept., Oklahoma City, making surveys grading, etc., 12 mi. Barnsdall-Avant Rd., and 11 mi. Avant-Skiatook Rd., both State Highway 11, 30 ft., Osage Co.; $40,000 each, also 9 mi. Oil-



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Streets and Roads (Continued)

ton-Shamrock Rd., 30 ft., Creek Co., $45,000; and concrete or brick surfacing 94,000 sq.yd. State Roads 1 and 6, $200,000. J. M. Page, highway engr.

Okla., Atoka—Plans grading and concrete paving 10,300 sq.yd. Main and Caddo Sts. $75,000. B. McCleen, Atoka, engr.

Okla., Carnegie—Defeated $90,000 bonds, paving various streets. Grant, Fulton & Lotton, 213 Magnolia Bldg., Oklahoma City, engrs. Noted Apr. 22.

Okla., Chandler—Making plans and takes bids latter part May, brick paving 7,500 sq.yd. various streets. $25,000. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, Mo., engrs.

Okla., Elk City — Making plans brick paving various streets in new district. $100,000. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, Mo., engrs. Noted Mar. 11.

Okla., Pauls Valley — Plans grading, curbing and concrete paving 12,610 sq.yd. North Chickasaw St. $38,210. W. J. Harris, city clk. Engineer not announced.

Okla., Stillwater — Plans grading and concrete paving 10,430 sq.yd. Hester, Duck and Lowry Sts. $37,319. C. A. Wood, Stillwater, engr.

Okla., Weatherford—Plans grading and concrete paving 37,400 s.qdy. Bway., State and Commerce Sts. $117,200. J. H. Fisher, Weatherford, engr.

Okla., Yale—Making preliminary plans grading and concrete paving 15,400 sq.yd. various streets in residential section. $46,000. J. L. Garrison, city clk. Engineer not announced.

Calif., Fresno—Making plans Warrenite paving, etc., Los Angeles St. between Butler Ave. and Bway. To exceed $25,000. A. M. Jensen, city engr.

Calif., Los Angeles — Los Angeles Co. making surveys, etc., constructing roadway from Glendora Mountain Rd. to San Gabriel Dam site. $100,000 or more. G. W. Jones, Los Angeles, co. road comr.

Calif., Pasadena—Municipal Impvt. Dist. 5, plans election $1,150,000 bonds, widening Holly St. between Marengo Ave. and Bway., etc. B. Chamberlain, city clk. Noted June 23.

Calif., Sacramento — Wright & Kimbrough, 817 J St., making plans grading, curbing, guttering, walks and paving, etc., section south of Y St. from Front St. easterly. To exceed $75,000.

Calif., Santa Barbara — Plans concrete paving, etc. Montana Ave. To exceed $250,000. H. B. Carter, city engr.

Ont., Chatham—Kent Co. plans concrete paving 1½ mi. various streets, near here. $40,000. W. D. Colby, Harrison Hall, engr.

Ont., Saulte Ste. Marie — Plans asphalt, macadam or concrete paving 9,000 sq.yd. various streets. $35,000. L. R. Brown, City Hall, engr.

Ont., Toronto — East York Twp. plans grading and opening 836 ft. lane between Exeter and Talbot Sts., $7,400; concrete sidewalks and 6 in. curbing 780 ft. Sammon Ave., $1,837; and curbing, guttering and asphalt paving 961 ft. Woodbine Ave., 28 ft., $21,663. G. R. Jack, 443 Sammon Ave., engr.

Ont., Toronto—York Twp. plans 12 in. brick block guttering and bituminous concrete paving 630 ft. Belvidere Ave., 24 ft., $10,030; and 2,000 ft. Beresford Ave., 28 ft., $34,380. F. B. Goedike, 40 Jarvis St., engr.

B. C., Point Grey — Municipal Council takes bids about May 21, paving Dunbar St. from 16th to 41st Aves. $60,000 bonds voted for same. W. B. Greig, 5851 West Blvd., Vancouver, engr.

B. C., Point Grey — City Council takes bids about June 11, grading various streets and lanes. $50,000 bonds voted for same. W. B. Greig, 5851 West Blvd., Vancouver, engr.

Bids Desired

Maine—May 20, by State Hy. Comn., Augusta, grading, concrete paving, etc., North Kennebunkport and Biddeford, Wells-Kennebunk, Ellsworth-Trenton, and Waterville. P. D. Sargent, ch. engr.

Mass., Athol — May 18, by Dept. Pub. Wks., Boston, bituminous macadam paving 8,429 ft. highway, here. W. F. Williams, comr.

Mass., Boston—May 20, by Park Dept., sheet asphalt or bitulithic paving Arbor Way (West Drive) and Commonwealth Ave. (Main Drive). $25,000. J. B. Shea, chn. Park Dept., 33 Beacon St.

Mass., Brookline (br. Boston)—May 17, by Bd. Selectmen, sheet asphalt or warrenite bitulithic paving Beacon St. between Park St. and Washington Sq. $25,000. Private plans.

Mass., Dartmouth — May 25, by Dept. Pub. Wks., Boston, rein.-con. paving 15,300 ft. highway, here. W. F. Williams, comr.

Connecticut—May 18, by State Hy. Dept., Hartford, rein.-con. paving roads in Greenwich, Fairfield, Rocky Hill, Windham, Norwalk, Wilton, Milford, Orange and West Haven; bituminous macadam paving in Bridgeport, Trumbull, Branford and Groton; waterbound macadam paving in Guilford and Saybrook. J. A. Macdonald, highway comr.; adv. E. N.-R. May 13.

Conn., Norwich—May 15, by Bd. Selectmen, bituminous macadam paving 9,100 ft. various streets $65,000.

New York — May 25, by A. W. Brandt, comr. highways, Albany, constructing highways in Cayuga, Chautaugua, Chenango, Niagara, Saratoga and Ontario Counties; reconstructing highways in Broome, Chautauqua, Clinton, Fulton, Montgomery, Niagara, Orleans, Oswego and Suffolk Counties; adv. E. N.-R. May 13.

N. Y., Buffalo—Taking bids asphalt repaving 1.5 mi. Front Ave., 42 ft. To exceed $40,000. J. P. Moore, City Hall, comr.

N. Y., Freeport—May 28, by Bd. Village Trustees, 50 West Merrick Rd., permanent paving approximately 67,600 sq.yd. various streets. Smith & Malcomson, Inc., 177 Olive Blvd., engrs.; adv. E. N.-R. May 13.

N. Y., Johnstown — May 17, by G. E. Yerdon, city clk., rein.-con. paving 5,627 sq.yd. Pearl, West, Yost, Veghte, Prospect and West Madison Sts. Noted May 6.

N. Y., New York—May 20, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading, curbing and sidewalks on Wallace and Edison Aves.; grading Paulding Ave.; curbing La Salle Ave.; and sheet asphalt on concrete paving and repaving East Tremont Ave.

N. J., New Brunswick—May 20, by Middlesex Co., concrete paving ¾ mi. Stelton-New Market Rd. W. F. Buchanan, 175 Smith St., Perth Amboy, engr.

N. J., Pompton Lakes—May 20, by Boro Council, J. F. Cornelius, clk., Municipal Bldg., concrete sidewalks on various streets. E. N. Millen & Son, engrs.; adv. E. N.-R. May 13.

Pennsylvania — May 20, by State Hy. Dept., Harrisburg, **(A. means Application and R. means Route)**, one course rein.-con. paving 52,751 ft. R. 41, Adams Co. and A. 3253, Cumberland Co.; 11,310 ft. R. 75, A. 4040, Butler Co.; 15,600 ft. R. 214, Sect. 1, Clarion Co.; 21,872 ft. R. 337, A. 3700 and 3915, Indiana Co.; 32,736 ft. R. 226, 285, A. 3795, 3796 and 4197, Lehigh and Berks Counties; 22,650 ft. A. 2842 and 2588, Northampton Co.; 8,055 ft. A. 3528, Somerset Co.; 8,203 ft. A. 4009, Westmoreland Co.; and 16,253 ft. A. 2003-A, York Co. W. H. Connell, eng. executive and deput. secy. highways.

Pa., Clearfield—May 17, by Boro Council, J. D. Connelly, secy., concrete or 2.5 in. sheet asphalt on concrete paving, etc. approximately 3 mi. Gulick Ave. and West 1st, West 2nd, Locust, Pine, 5th, Walnut and Witmar Sts., 20 ft. E. W. Hess, boro. engr. Noted Apr. 22.

Pa., Phila.—May 18, by Dept. Pub. Wks., Bureau of Highways, grading, asphalt paving, vitr. block and redressed granite block repaving various streets and improving country roads, etc. G. H. Biles, dir.

Pa., Phila.—May 24, by Dept. Pub. Wks., Bureau of Highways, improving York Rd., Chelton and 65th Aves. G. H. Biles, dir.

Pa., Washington — May 20, by Comrs. Washington Co., rein.-con. paving 8,518 ft. Valley Inn Sect. Monongahela Pike, 7,920 ft. Burgettstown-Eldersville Rd., 8,076 ft. Canonsburg-Thomas Rd., Sect. 3, 8,584 ft. Beallsville-Zollarsville Rd., Sect. 3, and 600 ft. Taylors Run Intersection; also Patterson Mills Bridge over Cross Creek 10, Jefferson Ave. Bridge over Chartiers Creek 33, and Wylie Ave. Bridge over Chartiers Creek 56. T. J. Underwood, controller.

Pa., Westmont—May 21, by Boro Council, H. P. Shomo, Greene St., pres., improving Luzerne St., 16,000 cu.yd. excav., 15,000 sq. yd. 6 in. rein.-con. paving, 11,000 lin.ft. 6 x 24 in. concrete curb, etc. O. P. Thomas, Park Bldg., Johnstown, boro engr. Noted Apr. 15.

Maryland—May 25, by State Rd. Comn., Baltimore, macadam resurfacing 3.3 mi. Constr. W-40, Washington Co.; concrete paving 1.25 mi. Contr. P-62, Prince George Co., and 1.2 mi. Contr. T-23, Talbot Co.; graveling 1.75 mi. Contr. AA-47, Anne Arundel Co., and 2.37 mi. Contr. Sm-36, St. Marys Co.; also concrete shoulders on 3.4 mi. Contr. Ce-10-A, Cecil Co., and 3.35 mi. Contr. M-10-C, Montgomery Co. J. N. Mackall, chn.; adv. E. N.-R. May 13.

N. C., Siler City — May 26, by Mayor and Bd. City Comrs., curbing, guttering, sewers, and concrete or asphaltic paving, etc., 32,100 sq.yd. various streets. E. C. Olsen, Inc., Raleigh, engrs.

South Carolina—May 18, by State Hy. Dept., Columbia, concrete paving, etc., 20,461 sq.yd. State Route 21, State Project S-508, 6,363 sq.yd. Paris Mountain Rd., and 28,662 sq.yd. State Route 20, State Project S-618, Greenville Co., also 67,600 sq.yd. State Route 2, Federal Aid Project 49, Newberry Co.; improving 5.7 mi. State Route 8, Federal Aid Project 243-A, Spartanburg Co.; sand clay surfacing, etc., 11.5 mi. State Route 50, Federal Aid Project 266-A, Kershaw Co.; and six 15 ft. span treated timber bridge over Lightwood Creek, State Route 24, State Project S-545, Lexington Co. 9ddress State Highway Engineer, Columbia, engr.

South Carolina—May 18, by State Hy. Dept., Columbia, grading, topsoiling, etc. 9,504 cu.yd. State Route 9, State Project S-622-A, Chester Co., State Highway Engineer, 1708 Sumter St., Columbia, engr.

Florida — May 20, by State Rd. Dept., Tallahassee, clearing, grubbing, grading, etc. 14.2 mi. road in Seminole Co., 30 ft. J. L. Cresap, Tallahassee, engr. Noted May 6.

Fla., Fellsmere—June 11, by City Council, curbing, surfacing, sub-grading and paving streets. F. W. Dole, city clk.; adv. E. N.-R. May 13.

Fla., La Belle—May 28, by W. T. Hull, clk. Hendry Co., hard surfacing 3 mi. road, $45,000; and two 2½ mi. roads, $38,000 each. J. H. Caldwell, Jr., La Belle, engr.

Fla., West Palm Beach—May 19, by J. E. Bell, chn. Palm Beach Co., paving, etc., 1¼ mi. road from Hosleys Point north to Martin Co. line. $30,000. A. O. Taylor, engr.

Alabama—May 19, by State Hy. Dept. Montgomery, **(F. A. P. means Federal Aid Project, and S. A. P. means State Aid Project)**, clearing, grubbing, grading, gravel, concrete and 2 in. bituminous concrete surfacing 81.3 mi. roads on F. A. P. 151 Cullman Co., S. A. P. 70-B Pickens Co., S. A. P. 23-B Dallas Co., S. A. P. 113 Winston Co., F. A. P. 157 Limestone Co., S. A. P. 67-B and S. A. P. 67-C, Macon Co., also F. A. P. 166, Monroe Co. W. A. McCalla, highway engr.

Ala., Eufaula—May 18, by City Council, curbing, guttering and paving 67,000 sq.yd. various streets. H. S. Jandon Eng. Co., Elberton, engrs.

Miss., Durant—May 24, by Mayor & Bd. Aldermen, grading, curbing, guttering and various types paving 20,000 sq.yd. West Depot, Mulberry and Magnolia Sts. Massena L. Culley, 1st Natl. Bank Bldg., Jackson, consult. engr.

Louisiana—May 20, by Hy. Comn., Baton Rouge, completing roadway embankment on 1.857 mi. Vinton-Orange Highway, Federal Aid Project 43-D, Unit 1, Calcasieu Parish, 350,000 cu.yd. earth borrow. W. B. Robert, highway engr.

O., Akron—May 24, by Comrs. Summit Co., improving Kenmore-Mogadore Rd. 44-E, 18,100 cu.yd. earth excav., 34,000 sq. yd. vitr. brick or concrete on 6 in. concrete paving, etc. Brick $178,000, concrete $133,000. H. G. Sours, Court House, engr. Noted Apr. 8.

O., Akron—June 7, by W. F. Peters, dir. Pub. Serv., walks, paving, etc. 20,200 sq.yd. Hillside Terrace, Packard Dr., Whitney, Orlando, and Peerless Aves. E. A. Kemmler, highway engr. Noted Apr. 8.

O., Bexley (Columbus P. O.)—May 19, by S. W. Roderick, village clk., grading, curbing, brick, asphalt or concrete paving Ardmore, Cassingham, Cassady and Stanwood Rds., Huhl, Columbia and Drexel Aves. $158,500. Jennings-Lawrence Co., Hartman Bldg., Columbus, engrs.

O., Cleveland—May 19, by City, grading, curbing, paving, etc., Gilbert Court S. W., Munn Rd. N. W., Oliver Rd. S. W., Woodworth Rd. N. E., Canova Ave. S. W., Curran S. W., Gifford S. W., Havel S. E. Aves., and East 22nd, East 37th, East 171st, East 172nd, West 47th, West 117th and West 152nd Sts. $250,000. R. Hoffman, City Hall, engr.

Ind., Anderson—May 15, by Comrs. Madison Co., curbing and concrete paving, etc. 1¼ mi. Locust and 1st Sts., 28 ft. $45,000 M. H. Steele, Court House, engr.

Ind., Anderson — June 15, by Comrs Madison Co., curbing and concrete paving, etc., 1 mi. Noble and 31st Sts., 28 ft. $35,000. M. A. Steele, Court House, engr.

Ind., Ft. Wayne—May 25, by Comrs. Allen Co., constructing Oetting Rd., Wayne Twp., $45,276; and Trier Seddlemeyer Rd., Adams Twp., $53,946. J. H. Johnson, aud.

Ind., Wabash—June 8, by Comrs. Wabash Co., improving highway on line between Pleasant and Paw Paw Twps. $35,992. W. Beauchamp, aud.

Michigan—May 24, by State Hy. Dept., at office Comrs. Clinton Co., Saginaw, grading 6.495 mi. Federal Aid Rd. 142. G. C. Dillman, Lansing, highway engr.

Michigan—May 26, by State Hy. Dept., at office Comrs. Alcona Co., Halpena, graveling 11.033 mi. State Rd. 72-3. G. C. Dillman, Lansing, highway engr.

Michigan—May 27, by State Hy. Dept., at office Comrs. Kent Co., Grand Rapids, concrete paving 1.607 mi. Federal Aid Rd.

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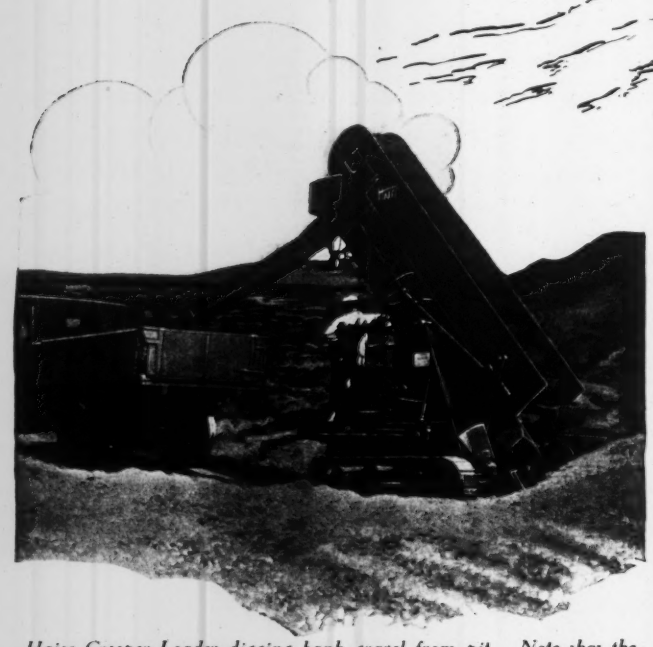

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Streets and Roads (Continued)

210. G. C. Dillman, Lansing, highway engr.

Michigan—May 27, by State Hy. Dept., at office Comrs. Kent and Mountcalm Counties, at Grand Rapids, concrete paving 4.836 mi. Federal Aid Rd. 132, Sect. D. G. C. Dillman, Lansing, highway engr.

Mich., Fruitport—May 17, by Bd. Comrs. Muskegon Co., Court House, Muskegon, grading and 6 in. concrete paving 12,800 sq. yd. 3rd Ave., here. $30,000. L. H. Nielsen, Court House, Muskegon, engr.

Mich., Fordson — May 18, by Hubbell, Hartgering & Roth, engrs., 2640 Buhl Bldg., Detroit, grading, curbing and concrete paving 4,537 sq.yd. Assessment Dist. 125, 4,571 sq.yd. Dist. 129, and 4,515 sq.yd. Dist. 130, here, for City.

Mich., Grand Haven—May 18, by Bd. Rd. Comrs. Ottawa Co., Court House, grading, 6 in. concrete surfacing, etc., 1½ mi. 3rd Ave. Rd. South of Muskegon-Ottawa Co. line, 20 ft. $45,000. C. T. Bowen, Court House, engr.

Wisconsin — May 20, at Div. Office 2, Stephenson Bldg., Milwaukee, grading, concrete paving, etc., 46,498 sq.yd. Federal Aid Project 427-A, Fond du Lac Co., and constructing Denevue Bridge, 45 ft. plate girder; Denevue Drainage Bridge, 24 ft. and Halter Bridge, 25 ft., both rein.-con. girder spans, also extending Mickeljohn Bridge, Sta. 70 plus 60.2; and grading, concrete paving, bridging, etc., 34,400 cu.yd. State Project 2667, Walworth Co. J. T. Donaghey, ch. engr.

Wis., Milwaukee—May 15, by Dept. Pub. Wks., R. E. Stoelting, comr., sheet asphalt resurfacing, etc. 8,573 sq.yd. 2nd Ave.; and asphaltic concrete on vibrolithic concrete paving, etc. 8,566 sq.yd. 35th St. J. W. Schwada, city engr.

Ia., Humboldt — May 18, at office K. J. Smith, maintenance supt., graveling primary road, 3,100 cu.yd. gravel 1 mi. haul, 23,050 units ½ mi. haul, etc.

Ia., Dakota City — May 18, by Auditor Humboldt Co., improving Secondary and Primary Projects Div. C1, S-80 and S-81, 82,500 cu.yd. excav., etc. K. J. Smith, Dakota City, co. engr.

Ia., Sibley—May 19, by Auditor Osceola Co., improving 13.7 mi. Primary and Secondary Project S-22, 9,200 cu.yd. stripping, 17,436 cu.yd. gravel, 127,459 units overhaul, etc. J. H. Turnbull, Sibley, engr.

Minnesota—May 25, by State Hy. Dept., St. Paul, grading, graveling, etc., approximately 38,400 cu.yd. State Project 6-40, Sect. 1 between Ada and Perley, Norman Co. $30,000. Eng. Dept. of owner, engr.

Minn., Minneapolis—May 24, by A. P. Erickson, aud. Hennepin Co., grading, etc., Forest Lake cutoff between Lowry Ave. and Minneapolis State Highway 1, through New Brighton. $125,000. Noted Nov. 26.

Kan., Coldwater — June 11, by Clerk Comanche Co., improving 4.593 mi. Federal Aid Project 337-A, 43,156 cu.yd. excav., 26,870 lb. reinforcing, etc. L. M. Leiter, Coldwater, co. engr. Noted May 13.

Kan., Columbus — June 4, by Clerk Cherokee Co., grading, and gravel surfacing 6.482 mi. Federal Aid Project 299-A, 18 ft., 81,186 cu.yd. excav., 36,054 lb. reinforcing, etc. H. W. Tyrrell, Columbus, co. engr. Noted Apr. 22.

Kan., Concordia — May 18, by E. J. Alexander, curbing, guttering, and concrete, rein.-con., asphalt, asphaltic concrete or brick paving 14,648 sq.yd. various streets. Haskins & Crawford, 802 Finance Bldg., Kansas City, Mo., engrs. Noted Dec. 31.

Kan., Eldorado—June 8, by Clerk Butler Co., improving 6.84 mi. Federal Aid Project 205-G, 12,861 ft. hedge, 37,608 cu.yd. excav., 29,936 lb. reinforcing, etc. E. S. Elcock, Eldorado, co. engr. Noted May 6.

Kan., Garnett—May 31, by Anderson Co., concrete and gravel surfacing incl. 30 ft. subway span on 0.173 mi. Federal Aid Project 113-C.

Kan., Olathe—June 11, by Clerk Johnson Co., grading, guttering, removing hedge, and concrete surfacing, etc. 56,484 sq.yd. Federal Aid Project 315-B. E. J. Terrill, Olathe, co. engr. Noted Mar. 4.

Kan., Salina — June 7, by Clerk Saline Co., grading, etc. 6.018 mi. Federal Aid Project 196-B, 65,537 cu.yd. excav., 208 ft. hedge, 18,832 lb. reinforcing, 4,950 lb. c.i. covers, etc.; and 6.914 mi. Sect. C, 53,262 cu.yd. excav., 2,005 ft. hedge, 20,867 lb. reinforcing, 3,300 lb. c.i. covers, etc. W. H. Cost, Salina, co. engr. Noted May 6.

Neb., Omaha—May 18, by J. P. Hoctor, city clk., paving approximately 40,000 sq.yd. in Dists. 2406, 2833, 2882, 2883, 2922, 2925, 2938, 2944, 2971, 2984, 2995, 2996, 2998, 3002, 3003, 3004, 3017 and 3033.

Mo., St. Louis — May 18, by Bd. Pub. Serv., 208 City Hall, asphalt paving, etc. 10,090 sq.yd. Glasgow St. $44,000, 9,240 sq.yd. Leffingwell St. $42,000, 39,685 sq.yd. Kingshighway $184,520, and 27,325 sq.yd. Hawthorne and Longfellow Places $108,000; Warrenite paving, etc. 3,300 sq.yd. Thekla St., $28,120; asphaltic concrete paving, etc. 1,790 sq.yd. Bowen St. $10,120, 1,005 sq.yd. Duke St. $6,320, 1,330 sq.yd. Dunnica St. $9,600, 2,720 sq.yd. Lucille St. $19,200, 985 sq.yd. Sexauer St. $7,120, 1,940 sq.yd. 37th St. $11,000, and 1,430 sq.yd. Wall St. $9,480; concrete paving, etc. 2,680 sq.yd. Cutter St. $13,720, and 720 sq.yd. Wilcox St. $6,320; also brick paving, etc. 1,155 sq.yd. Newstead St. $7,600. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis — June 1, by Bd. Pub. Serv., 208 City Hall, concrete paving, etc. 4,435 sq.yd. Lowell St., $23,920; asphaltic concrete paving, etc. 1,085 sq.yd. Art Hill Pl. $9,320, 1,255 sq.yd. Frieda St. $8,400, 775 sq.yd. Hoffman St. $4,520, Hoffman St. between Tamm and Clifton Sts. $8,160, 1,865 sq.yd. Nicholson St. $11,520, 1,155 sq.yd. Winnebago St. $7,600, and 2,900 sq.yd. Shreve St. $18,600. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—June 8, by Bd. Pub. Serv., 208 City Hall, grading, concrete paving, etc., approximately 20,000 sq.yd. alleys in City Blocks 2690, 2807, 2955, 3603, 3604, 4146, 4147, 4407, 4416-B, 5135, 5323, 5506, 5528, 5554, 5559, 5569 and 5613. $55,230. W. W. Horner, 300 City Hall, engr. Noted Feb. 16.

Okla., Hennessey—May 17, by E. Brewer, city clk., grading and concrete paving 10,100 sq.yd. Oklahoma Ave. $34,440. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Feb. 18.

Idaho — May 21, by Comr. Pub. Wks., Court House, Sand Point, improving 5.24 mi. Federal Aid Project 100-B, North and South Highway, Bonner Co., 22.39 acres clearing, 24,150 cu.yd. earth, 7,515 cu.yd. solid and 11,631 cu.yd. loose rock excav., 28,845 sta.yd. overhaul, 12,290 cu.yd. gravel surfacing, etc. P. E. Oxley, Lewiston, dist. engr.

Calif., Los Angeles—May 24, by Supervs. Los Angeles Co., grading, and 189,409 sq.ft. 6 in. and 96,874 sq.ft. 5 in. waterbound macadam paving, etc., 81 Monte St., Impvt. 260. G. Jones, Hall of Records, engr.

Calif., Los Angeles—May 24, by Supervs. Los Angeles Co., improving portions Peck Rd. and Covina Blvd., 26,018 cu.yd. excav., 584,809 sq.ft. 6- to 8-in. concrete and 10,911 sq.ft. 8 in. concrete paving, 184,409 sq.ft. 6 in. and 96,874 sq.ft. 5 in. waterbound macadam paving, etc. G. W. Jones, co. rd., comr.

Calif., Santa Cruz—Supervs. Santa Cruz Co., taking bids oil macadam paving, etc. 80,000 sq.ft. Sect. 1 East Corralitos Rd.; 55,944 sq.ft. Sect. 2 Holohan Rd.; and 64,895 sq.ft. Sect. 3 Beach Rd. L. Bowman, Santa Cruz, co. surv.

Calif., San Diego—May 24, by Common Council, improving Woolman Ave., 358,124 sq.ft. 5 in. concrete paving, 10,125 lin.ft. concrete curbing, 49,337 sq.ft. concrete sidewalk, etc. F. A. Rhodes, city engr. Noted Apr. 22.

Calif., San Rafael — May 24, by J. C. Oglesby, surv. Marin Co., grading rock surfacing, etc. 1,000 cu.yd. Novato-Hicks Valley Rd. Noted Oct. 22.

Bids Received

Maine—State Hy. Comn., Augusta, May 4, concrete paving 4.94 mi. road in Bangor, from Berini & Son, Ashland, Mass., $154,036, and 7.39 mi. in Paris, from J. McCormick Co., Providence, R. I., $301,065; bituminous macadam paving 1.81 mi. in Auburn, from Ford & Smiley, Skowhegan, $48,891, 1.08 mi. in Ft. Fairfield, from Boone & Bewer, Presque Isle, $35,694, and 1.49 mi. in Mt. Desert, from J. H. Kerr, Rumford, $47,096; graveling 5.25 mi. in Steuben, from Wyman & Simpson Co., Waterville, $93,576, 3.5 mi. in Orland-Penobscot, from Burbee Constr. Co., Gardner, $75,502, 6.88 mi. in Cornish-Limerick, from C. Haggerty, Webster, Mass., $97,751, and 5.58 mi. in Jonesboro-Whitneyville-Machias, from McCabe & Giovannini, Inc., 20 Central St., Boston, Mass. Noted Apr. 29.

Massachusetts—Dept. Pub. Wks., Boston, May 4, bituminous macadam paving highway in Sharon, from C. E. Horne, Milbury, $21,900, and 1,900 ft. in Holbrook, from Powers Bros., 161 Montello St., Brockton, $13,131; also rein.-con. paving 18,498 ft. in Somerset and Swansea, from Callan Constr. Co., 208 Franklin St., Bristol, R. I., $276,792. Noted Apr. 22.

Mass., Boston — Sheet asphalt paving Arlington St., etc., from J. A. Singarella, 110 High St., $51,776. Noted Apr. 29.

Mass., Roxbury (Boston P. O.) — Dept. Pub. Wks., Boston, Apr. 30, sheet asphalt paving Huntington Ave., here, from J. F. Kennedy Constr. Co., 6 Beacon St., Boston, $57,217. Noted Apr. 22.

Conn., Bridgeport — Grading, concrete curbing, Warrenite paving, etc., 119,500 sq. yd. various streets, from Leverty & Hurley, 500 Waterview Ave., $182,701. Noted Apr. 15.

N. Y., Brooklyn — J. A. Guider, pres., Brooklyn Boro, Boro Hall, May 5, asphalt resurfacing Chester, Clayer and other streets, from Cranford Co., 9th St., $124,688; asphalt repaving Court St., from Brooklyn Alcatraz Paving Co., Hamilton Ave., $9,483. Noted Apr. 29.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., May 4, from W. P. Macdonald Constr. Co., Lawrence St., Flushing, repaving on existing concrete Jackson Ave., $1,933, asphalt block repaving Franklin St., etc. $36,634, Jamaica Ave. from Main to Sanford Sts. $21,360, and sheet asphalt repaving Sutphin Blvd. $92,660; from Eastern Contg. Co., 367 Fulton St., Brooklyn, granite block repaving Myrtle Ave. to Cooper Ave., $221,510. Noted Apr. 29.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., May 10, grading and repaving Betts Ave. (58th St.), from Uvalde Asphalt Paving Co., Inc., 1 Bway., New York City, $51,355; grading, curbing and sidewalks on Honeywell St., etc. and grading and sheet asphalt paving 8th Ave., etc. from Welch Bros., 14 Queens St., $4,745 and $22,091 respectively; sheet asphalt repaving Astoria Ave., from W. P. McDonald Constr. Co., Lawrence St., Flushing $23,921 and 130th St. from Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $22,830. Noted May 6.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., May 10, grading, curbing, flagging and stone filled asphalt paving Riverside Dr., from Remo Realty Co., 645 East Tremont Ave., $124,173. Noted May 6.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Croto a Park, 3rd and Tremont Aves., May 4, sheet asphalt on concrete paving Leland Ave. and Chislom St., from Asphalt Constr. Co., 208 Bway., $69,963 and $8,444 respectively; asphalt block on concrete repaving La Fountaine Ave., from L. De Minna, 2366 Lorillard Pl., $55,069; and granite block on concrete repaving East 152nd St., from St. George Paving Co., 90 West St., $30,582. Noted Apr. 29.

New Jersey—State Hy. Dept., Trenton, grading and concrete paving 70,256 sq.yd. Whitehorse Pike, Route 3, Sect. 13-A, from Absecon to Egg Harbor, Atlantic Co., from Comerford Constr. Co., 125 South 5th St., Phila., Pa., $313,044; and double line rein.-con. paving etc., 32,807 sq.yd. Buttzville-Belvidere Highway, Route 5, Sect. 17, Warren Co., from F. H. Smith, Hackensack, $158,440. Noted Apr. 15.

N. J., Bayonne—Hudson Co. Park Comn., Jersey City, May 3, grading at Bayonne Co. Park, from E. J. Flaherty Contg. Co., 76 Montgomery St., Jersey City, $112,770; bulkhead, from G. B. Spearing, Inc., 90 West St., New York City, $22,700; shelter, from J. Jewkes & Sons, 676 Montgomery St., Jersey City, $18,400.

N. J., New Brunswick — City, May 14, sheet asphalt paving Suydam and Bethony Sts., from Utility Constr. Co., 5 Spring St., $30,723; and Bristol and Hales Sts., from T. H. Riddle, New Brunswick, $32,572. Noted Apr. 29.

Maryland — State Roads Comn., Baltimore, concrete paving 1 mi. Contr. Ce-55, Cecil Co., from Sutton Constr. Co., Jefferson Bldg., Phila., Pa. $20,185, 2 mi. Contr. B-78, Baltimore Co., from H. D. Campbells Sons Co., Towson $65,743, 1.75 mi. Contr. Wo-37, Worcester Co., from Hanneman-Burroughs Co., Salisbury $30,800, and 1.44 mi. Contr. Wi-34, Wicomico Co., from P. D. Phillips & Bros., Salisbury $30,686; macadam resurfacing 1.2 mi. Contr. F-60, Frederick Co., from Poffinberger & Mause, Myersville $19,121, and 2.4 mi. Contr. W-45, Washington Co., from Bester, Long Co., Frederick $28,894. Noted Apr. 22.

Md., Baltimore—Bd. Awards, May 5, concrete paving 9,840 sq.yd. Contr. 338, from H. H. Hershberger, 3723 Reistertown Rd., $26,155. Noted Apr. 29.

La., Shreveport — City Council, from Southern Roads Co., Whitney Bldg., New Orleans, asphaltic concrete paving 8,696 sq. yd. Fulton St. $33,447, 2,470 sq.yd. Logan St. $10,070, 1,400 sq.yd. Lavacca St. $5,108, and 912 sq.yd. Jacinto St. $3,200; from E. S. Girault, c/o City Council, 2,500 ft. cement sidewalks on Stoner Ave. at $0.155 per sq. ft.; and from Hankin Bros., Shreveport, concrete paving 545 sq.yd. alley south Common St., $2.52 per sq.yd.

O., Cleveland—City, Apr. 28, paving, etc. with (a) brick (b) asphalt (c) concrete (d) medina stone (e) granite block (f) bituminous concrete, (1) Kazimer Ave. (2) Dillewood Ave. (3) Abell Ave., (1 to 3 inclusive) involves 4,460 cu.yd. excav., 9,790 sq.yd. paving, 6,220 ft. stone curbing, etc. (4) East 30th St. "A" (5) 2 sections "B," (4 and 5) involves 3,200 cu.yd. excav., 4,100 sq.yd. paving 850 ft. stone curbing, etc. (6) East 18th St. (7) East Blvd. and

Streets and Roads (Continued)

(8) Burnside Ave. (6 to 8 inclusive) involves 7,645 lin.ft. curbing, 7,840 lin.ft. 4 in. drain tile gutter, 10,920 cu.yd. earth excav., 17,970 sq.yd. paving **(9)** Albers Ave. and **(10)** Alger Ave. (9 and 10) involve 4,070 lin.ft. stone curbing, 4,170 lin.ft. 4 in. drain tile guttering, 7,000 sq.yd. paving, etc. **(11)** Adeline Ave. **(12)** Mt. Vernon Ave. **(13)** Western Ave. **(14)** Schiller Ave. (11 to 14 inclusive) involve 8,650 lin.ft. stone curbing, 9,350 lin.ft. 4 in. drain tile guttering, 8,740 cu.yd. earth excav. and 15,410 sq.yd. paving, etc., from Cleveland Trinidad Paving Co., The Arcade **(a1)** $21,-338 **(e1)** $18,976 **(a2)** $7,956 **(b2)** $6,417 **(c2)** $6,419 **(a3)** $26,894 **(b3)** $24,064 **(c3)** $20,441; from Bentley Bros., 3030 Euclid Ave. **(d4)** $33,812 **(e4)** $35,362 **(f4)** $28,-152 **(d5)** $12,392 **(f5)** $10,212; from Rieley Bros., The Arcade **(a6)** $45,211 **(b6)** $40,-487 **(c6)** $39,683 **(f7)** $71,749; from H. G. Herring, Wayside Rd. **(a8)** $10,335 **(b8)** $8,877 **(e8)** $7,215; from Baldwin Bros., 4500 Euclid Ave. **(a9)** $11,462 **(b9)** $9,869 **(c9)** $8,691 **(a10)** $27,547 **(b10)** $24,827 **(c10)** $21,904; from Rochl Bros. Paving & Constr. Co., 7002 Denison Ave. **(a11)** $9,797 **(b11)** $8,304 **(c11)** $7,480 **(a12)** $2,039 **(b12)** $2,076 **(c12)** $1,523 **(a13)** $44,296 **(b13)** $39,952 **(c13)** $38,352 **(a14)** $29,947 **(b14)** $25,198 **(c14)** $22,295. Noted Apr. 22.

O., Marion — Marion Co., improving Mt. Olive Green Camp and Essex Rd., also Prospect and Upper Sandusky Rd., from S. M. Wooley, $27,873 and $38,281 respectively. Engrs. est. $27,000 and $43,113 respectively.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, May 5, concrete paving 6.71 mi. Route 2, Sect. 53, De Witt Co., from E. Berns & Co., 3048 North Illinois St., Indianapolis, Ind. $110,254, 0.26 mi. Route 2, Sect. 73-X, and 0.49 mi. Route 18, Sect. 22-X, both LaSalle Co., from H. Xolpher & Sons, Mendota $14,850, 4.28 mi. Route 3, Sect. 5, Cass Co., from Dobson & Robinson, 809 1st Natl. Bank Bldg., Lincoln, Neb. $73,747, 0.07 mi. Route 1, Sect. 20-X and 0.14 mi. Route 1, Sect. 21-X, both Crawford Co., from O. Arnold, Casey $8,384, 2.57 mi. Route 3, Sect. 16, Whiteside Co., and 1.09 mi. Route 3, Sect. 33, Warren Co., from J. L. Wells Co., Rock Island $42,-403 and $21,730 respectively, 1.31 mi. Route 3, Sect. 49, Greene Co., from Nelson Constr. Co., Jerseyville $24,940, 1.67 mi. Route 4, Sect. 63, St. Claire and Madison Counties, from W. C. Johnson, Belleville $53,870, 6.01 mi. Route 13, Sect. 15, Jackson and Perry Counties, and 5.91 mi. Route 13, Sect. 16, Perry Co., from J. W. Jones, Benton $225,-000, 1.33 mi. Route 9, Sect. 27, Fulton Co., from Hartman-Clark Bros. Co., Peoria $27,-311, 2.57 mi. Route 20, Sect. 14, McHenry Co., from E. H. Merrick, Kenosha, Wis. $91,395, 0.13 mi. Route 25, Sect. 16-X, Coles Co., from J. N. Shinn Co., Mattoon $2,516, 8.71 mi. Route 31, Sect. 18, Fulton Co., from Kerr & Murphy, Bloomington, Ind. $163,956, 4.86 mi. Route 36, Sect. 17, Pike Co., from E. J. Eiff Co., Quincy $96,-214, all above roads 18 ft. wide, 1.01 mi. Route 46, Sect. 464-M, 20 ft., Cook Co., from Chicago Heights Coal Co., Chicago Heights $35,000, 0.68 mi. Sect. 29-X, 0.9 mi. Sect. 29-Y, 0.65 mi. Sect. 30-Y, and grading 0.32 mi. Sect. 29-G, all Route 5, Jo Daviess Co., from Matthes Coal & Constr. Co., Davenport, Ia. $92,336; grading 2.96 mi. Sect. 1 Copperas Creek-Lock-Banner Rd., 24 ft., from C. E. Bradbury, Canton $64,495, and 2.01 mi. Route 13, Sect. 16-A, Perry Co., from M. E. McGuire, 401 College Ave., Indianapolis, Ind. $27,516. Noted Apr. 29.

Kan., Manhattan — Riley Co., Apr. 30, grading, brick surfacing, etc., 1.068 mi. Federal Aid Project 327-A, 24 ft., from M. R. Ammerman, 248 North Market St., Wichita, $58,480. Noted Apr. 15.

Texas—State Hy. Comn., Austin, clearing, grubbing, bridging and grading 15.067 mi. Highway 43, Federal Aid Project 494-A, from D. H. Buchanan, Temple, $43,827. Noted Apr. 15.

Tex., Hondo — Medina Co., bituminous paving 34.08 mi. Highway 3, Federal Aid Project 270, Unit 2, from Colglazier & Hoff, 922 Austin St., San Antonio, approximately $190,000.

Colo., Denver—From Gordon Constr. Co., Barclay Blk., concrete paving Alley Paving Dist. 140 $13,480, Dist. 139 $13,697, Dist. 138 $12,090, and Dist. 137 $15,535; from Monaghan-Cunningham Constr. Co., Railroad Bldg., curbing, grading and surfacing Montclair Impvt. Dist. 3, $88,385; from Levy Constr. Co., Symes Bldg., furnishing all material, labor, etc. to sustain all expenses incurred in construction of rein.-con. abutments, retaining wall and pedestal of the West Iowa Ave. Subway., $39,589.

Wash., Seattle—Bd. Pub. Wks., Apr. 23, from F. N. Badolato, Box 561, improving Dexter Ave. et al, 4,000 ft. concrete sidewalks at $1.30 per ft., 9,000 cu.yd. subgrade $0.55, 16,000 sq.yd. 9 in. concrete paving $2, 15 ft. 7 in. asphaltic concrete paving $1.90, etc., total $62,230. Engrs. est. $67,040.

Calif., Berkeley — City Council, Apr. 27, from J. F. Knapp, East Main St., Turlock, improving Sacramento St. between Dwight Way and city limits, etc., 11,000 cu.yd. grading at $1 per cu.yd., 281,000 sq.ft. 6 in. concrete paving $0.20, total $96,586. Noted Jan. 21.

Calif., Hayward—Grading, curbing, guttering and ½ in. Warrenite-bitulithic on 3 in. asphalt paving, A St. between Western Pacific R.R. tracks and Filbert St., from Jones & King, Hayward, $31,660. Noted Apr. 22.

Calif., Los Angeles — Bd. Supervs. Los Angeles Co., Apr. 26, from United Concrete Pipe & Constr. Co., Ventura, improving Rd. Dist. Impvt. 286 (portion of Artesia Ave.), 14,426 cu.yd. excav. at $0.48 per cu.yd., 327,153 sq.ft. concrete paving $0.19 per sq. ft., 343,290 sq.ft. 5 in. disintegrated granite sub-base $0.045, etc., total $85,415. Noted Mar. 25.

Contracts Awarded

Conn., New Haven—Removing present wood block pavement and replacing same with asphalt on Broadway, Whalley and Whitney Aves., to C. W. Blakeslee & Sons, Waverly St., $52,410, also asphalt paving Union Ave. from Carlisle to State Sts., to Conn. Natl. Paving Co., 173 Orange St., $26,725. Noted May 6.

N. Y., Albany — Bd. Contr. & Supply repaving Bway. and Clinton Ave., to H. Dumary, 119 State St., $182,563. Noted Jan. 21.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, to Leonard Paving Co., 233 Bway., New York City, granite paving Waverly Ave., $18,094; to F. Persicano, 350 Fulton St., and grading East 31st St. $2,618, to A. E. Castle, 3313 Tilden Ave., grading Caton Pl. $1,993 and East 34th St., $1,543, to F. De Vito 158 17th St. Georgia Ave. $3,550, Avenue S $1,514, 9th Ave. $1,197, 21st Ave. $2,115, to W. J. McHale, 1250 Jefferson Ave., Rockaway Parkway $4,725, Snyder Ave. $10,071, West 10th St. $3,089 and East 31st $2,058; to B. Turecamo Contg. Co., 8706 16th Ave., grading and asphalt paving Colonial Rd., $8,142, East 77th St. $5,425, West 9th St. $7,337, 10th Ave. $10,601, 24th Ave, $9,432, 59th St. $6,600, 63rd St. $7 590, 72nd St. $6,647, East 31st St. $8,131, 21st Ave. $6,905, and 72nd St. $8,278, to Uvalde Asphalt Paving Co., 1 Bway., New York City, East 34th St. $4,905, East 34th St. $3,389, Livonia Ave. $12,706, Pennsylvania Ave. $62,136, Riverdale Ave. $2,513, to Cleveland Trinidad Paving Co., Flushing, Hegeman Ave. $4,320, to Borough Asphalt Co., 1301 Metropolitan Ave., Pulaski St. $1,852, to Brooklyn Alcatraz Asphalt Co., Hamilton Ave., 7th Ave. $17,217, 9th Ave. $3,170, 48th St. $6,893, 71st St. $1,957, New York Ave. $8,474, and ½ in. concrete paving Avenue S $17,539. Grand total $284,726. Noted Apr. 29.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing and sidewalks on 74th (17th) St., to O'Brien & Kurth, Inc., 8625 137th St., Richmond Hill, $6,379; grading and restoring bituminous macadam paving over trenches in Rockaway Beach Blvd., to Sprague Constr. Co., Plaza Bldg., Far Rockaway, $6,542; repairing sheet asphalt paving in 1st and 2nd Wards, to Sicilian Asphalt Paving Co., 41 Park Row, New York City, $16,657. Grand total $29,578. Noted Apr. 8.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to L. Di Minna, 2366 Lorillard Pl., grading, curbing and sidewalks on East 172nd St. $20,164, and Lafayette Ave. $4,585; to Remo Realty Co., 530 East Tremont Ave., Barnes Ave., $5,105; to F. Gabrielle, Inc., 2750 Creston Ave., East 194th St. $8,436, and Pugsley Ave. $7,631; to P. J. Donovan, 30 Church St., Edison Ave., $9,920; to A. Musumeci, 277 East 146th St., Needham Ave. $2,073, Hering Ave. $4,437, and Mulford Ave. $6,292; to F. Spadaro, 2913 Creston Ave., Underhill Ave. 4,001, and East 177th St. $18,981; to J. V. Timoney Constr., 320 East 201st St., Morris Ave., $15,336; and to P. Tedesco, Westchester Ave., Laconia Ave., $3,530. Grand total $110,491. Noted May 6.

N. J., North Bergen (Ind. br. Weehawken)—Twp. Com. grading, paving, etc., 38th St. and Hudson River Turnpike, to T. C. Constr. Co., North Bergen. Engrs. est. $58,675 and $4,320 respectively.

N. J., Toms River—Ocean Co., 400,000 gal. road oil for various roads, to Asphalt Serv., Inc., New Brunswick, $0.0915 per gal.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to Gudknecht & Cullison, Torresdale and Robbins Sts., grading Afton (sidewalks) between Verree Rd. and Rising Sun Ave. $432, to J. J. McHugh, 1617 R[illegible] St., Algard St. $245, Kennedy and Tu[illegible] Sts. $1,478, Kerper St. $499, Tyson St. $691, paving and repaving alleys in Dists. 1 and 2 $24,553; to McCarrick Bros., 32[illegible] Fox St., grading Anderson, Nippon and [illegible]ndsworth Sts. $3,450, and Glen Echo Rd. $2,-613, to Curtis Bros., State and Unruh Rds., Arthur, Ashville, Meridian and Sol[illegible] Sts. $5,384, Aubrey Fitler, Leon and Primrose Sts. $22,199, E, Emerson and Hoffnagle and Ryers Sts. $2,356, to Morrissey Bros., [illegible] North 7th St., Benner St. $1,590, 65th Ave., Edna, Fern, Franklin, Front, Gale, Lawrence, Spencer, 2nd, 4th, 9th, 11th and 12th Sts., $36,742, to Frank Mark Contg. Co., North and Winghocking Sts., Tulpehocken St. $4,307, to Wilson, Martin, Inc., 7 South 17th St., Howard St. $394, to Dewees Bros., 7200 Shelbourne St., sidewalks on K St. $2,126, to E. Mullen, 5512 Vine St., Regent St. $1,707, to Barber Asphalt Paving Co., 239 North 30th St., asphalt paving Apple St. $2,291, Chelwynde, Garmen and 64th Sts. $18,162, Coleman St. $12,422, Middleton and Woolston Sts. $20,-264, Pacific St. $6,757, Smedley St. $5,946, Woodcrest St. $2,201, 46th St. $38,987, asphalt repaving Beulah, Daly and Franklin Sts. $12,419, Courtland St. $38,948, Larchwood St. $9,077, Latona St. $3,758, Reed St. $21,263, 16th St. $8,122, widening, paving and repaving 10th St. $12,843, and 16th St. $14,667; to Eastern Asphalt Paving Co., Penn Bldg., asphalt paving Ardleigh St. $16,842, Merrick St. $2,993, Queen St. $5,669, Sharp St. $3,292, Sprague St. $15,-274, asphalt repaving Chadwick St. $7,492, Dauphin, York and Marshall Sts. $32,936, Mifflin, Mildred and Tree Sts. $19,414, Rose and Reese Sts. $4,893 and Russell, Tioga and 3rd Sts. $20,131, to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., Belgrade St. $14,674, Dauphin and 3rd Sts. $31,574, to Union Paving Co., 30th and Locust Sts., resurfacing streets in 1st, 5th, 6th Highway Dists. and portion of 3rd Highway Dist. $118,864; to United Paving Co., Real Estate Trust Bldg., redressed granite block repaving Emery, Hope and Wildey Sts. $14,774, Fountain and Umbria Sts. $15,966, Sansom St. $4,506, Tacony St. $6,484, grading, paving and repaving Flat Rock Rd. and Leverington St. $31,073; to Municipal Paving Co., 702 Catharine St., redressed granite block repaving 2nd St. $19,367, and to J. Salvucci, 512 North 65th St., 8th St. incl. track area $23,925; to B. Fosher Co., 20th and Venango Sts., improving Passyunk Rd. between Bridge over Schuylkill River to 63rd St. $12,567, and 63rd St. $10,100; to J. S. E. Pardee, 700 Schuylkill Ave., furnishing vitr. blocks $2,539. Grand total $770,644. Noted Apr. 22.

Maryland—State Rd. Comn., Baltimore, concrete paving 1 mi. Contr. Cl-26, Carroll Co., to Poffinberger & Mause, Myersville, $21,337; and 1 mi. Contr. Wl-35, Micomico Co., also concrete shoulders on 4 mi. Contr. Wo-5-B, Worcester Co., to P. D. Phillips & Bros., Salisbury, $19,294 and $13,774 respectively; and 4.95 mi. Contr. AB-1-B, Anne Arundel Co., to Development & Constr. Co., Amer. Bldg., Baltimore, $34,639; concrete shoulders and resurfacing 4.72 mi. Contr. P-3-B, Prince Georges Co., to Thomas, Bennett & Hunter, Westminster, $75,260. Grand total $164,304. Noted Apr. 29.

Maryland—State Rds. Comn., Baltimore, concrete paving 0.42 mi. Contr. G-32, Garrett Co., to Tri-State Eng. Co., Cumberland, $13,176; macadam resurfacing 0.54 mi. Contr. F-88, to E. C. Valentine, Rocky Ridge $6,092, and 0.54 mi. Contr. F-87, to L. R. Waesche, Thurmont, $10,748, both Frederick Co.; concrete shoulders on 4.1 mi. Contr. M-69, Montgomery Co., to Corson & Gruman Co., 33rd and K Sts., Wash., D. C., $27,798, and 5.6 mi. Contr. H-3-A, Harford Co., to Thomas, Bennett & Hunter, Westminster, $45,030; graveling 1.5 mi. Contr. C-24, Calvert Co., to E. R. P. Smith, Hyattsville, $13,191; and grading, etc. 2.1 mi. Contr. G-30, Garrett Co., to H. W. Kaylor, Cumberland, $28,059. Grand total $144,094. Noted May 6.

Md., Baltimore — Bd. Awards, concrete paving footways listed in Footway Contr. 92, to A. Apicella, 2006 Bank St., $33,837. Noted May 6.

West Virginia — State Hy. Comn., Charleston, grading, gravel surfacing, etc., 5.5 mi. Mercers Bottom-Ben Leonard Rd., Mason Co., to Miller Bros., Gallipolis, O., $32,132.

W. Va., Morgantown—Brick and asphalt paving 7,715 ft. Pleasants and 6 other streets, 20-28 ft., to Cole Bros. Constr. Co., Morgantown, $102,196.

W. Va., Wellsburg—Street Com., asphalt paving 46,000 sq.yd. Main and other streets, to Federal Asphalt Paving Co., Hamilton, O., $105,000. Noted Apr. 22.

North Carolina—State Hy. Dept., Raleigh, grading and concrete paving, etc. 5.3 mi.

Streets and Roads (Continued)

Project 886, Rutherford Co., to Wilson Constr. Co., Rutherfordton, $164,547, and clearing, grubbing, grading, etc. 11.11 mi. Project 591, Rockingham Co., to G. F. Cornatzer, Winston-Salem, $55,889. Noted Apr. 15.

South Carolina—Sand clay surfacing 3.6 mi. Route 46, State Project 566-B, Berkeley Co., to Mayfield Constr. Co., Denmark, $18,507, and 6.8 mi. Route 311, State Project S-614-A, Berkeley Co., to J. L. Carroll, Columbia, $35,839; also rein.-con. bridge across Pacolet River, Route 10, State Project 628, to Latimer & Peake, Columbia, $28,797. Grand total $83,143.

Ga., Atlanta — To MacDouglas Constr. Co., 180½ Spring St., sheet asphalt paving 7,084 sq.yd. Irwin St. at $2.03 per sq.yd., total $14,381, 2,936 sq.yd. Mortimer St. $2.04 total $5,990, 10,723 sq.yd. Forsythe St. 32,698, and vibrolithic paving 1,559 sq. yd. Archer St. $2.12, total $3,305. Grand total 56,374.

Ga., Thomaston—Grading, curbing, sidewalks and concrete paving 16,600 sq.yd. various streets, to Davis Constr. Co., Walton Bldg., Atlanta, $65,845.

Florida — State Rd. Dept., Tallahassee, grading and concrete paving 10.2 mi. road in Bay Co., 30 ft. to Noonan-Lawrence, Box 1071, Pensacola, $327,235; clearing, grubbing, grading, etc. 8.73 mi. in Martin Co., to Boone & Wester, St. Augustine $54,245, and 5.16 mi. in Polk Co., to W. P. Mcdonald Constr. Co., Lakeland, $233,609; also 8 in. compacted rock base on 10.2 mi. in Putnam Co., to Whitney Constr. Co., St. Augustine $190,932, and 11.82 mi. in Hamilton Co., to Duval Eng. & Contg. Co., 216 Dyal Bldg., Jacksonville, $219,536. Grand total $1,025,557.

Florida — State Rd. Dept., Tallahassee, clearing, grubbing, grading, etc. 14.39 mi. Project 676-B, to McLeod Constr. Co., 211-215 Stovall Bldg., Tampa, $126,333; also 9.95 mi. Project 676-A, to Gilbert & Hadsock, Newberry, $44,432, both Levy Co. Noted Apr. 22.

Miss., Walthall — Bd. Supervs. Webster Co., c/o Chauncery Clerk, gravel surfacing Calhoun-Ackerman Rd., Federal Aid Project 157-B, Webster Co., to M. S. Boyd, Columbia, $36,000. Noted Apr. 15.

La., Lecompte — Grading, curbing, guttering and graveling Weems Ave., Hardy, Earnest, Smith Add, St. Martin, Union, Canal, and Cody Sts., to Carbo & Wilks, Alexandria, $21,073; washed gravel, to Cocodrie Gravel Co., Lecompte, $5,300; and sand clay gravel, to Pelican Gravel Co., Lecompte, $1,575. Grand total $27,948.

Kentucky — State Hy. Dept., Frankfort, grading and gravel surfacing 3.8 mi. Liberty-Hustonville Rd., Federal Aid Project 149-A, to Cundiff & Corigan, Liberty, $71,452; and grading and bituminous macadam surfacing 7.3 mi. Hustonville-Danville Rd., Federal Aid Project 149-B, to Connolly Constr. Co., Somerset, $156,543, both Lincoln Co. Noted Mar. 11.

O., Akron—W. F. Peters, dir. Pub. Serv., (**e. e. means engrs. est.**), grading, curbing, walks and vitr. brick paving, etc., 5,650 sq.yd. Gertrude St. et al, to Hollinger & Davidson, 435 South Bway., $39,429, e. e. $44,400; grading, walks and cindering 2,000 cu.yd. Stanton Ave., et al, to J. Hurak, 617 Brown St., $17,945, e. e. $23,500; grading, curbing, ornamental lighting system and vitr. brick paving 6,055 sq.yd. Bacon Ave., and 7,700 sq.yd. Sunset View and Stadelman Aves., to Columbus Asphalt Paving Co., 304 Buckeye Bldg., $31,400 and $57,047 respectively, e. e. $38,900 and $72,000 respectively. Grand total $145,821. Noted Apr. 29.

O., Canton — Curbing and brick paving Harrison Ave. extension and concrete paving 1.03 mi. Marlboro-Bolton Rd., 16 ft., to E. Vogt Paving Co., Massillon, $49,512 and $39,296 respectively, engrs. est. $50,000 and $40,000 respectively; also monolithic paving, etc. 1.5 mi. Canton-Sherman Rd., 16 ft., to Wise Bros. Co., 1126 11th St. N. W., $62,682, engrs. est. $60,000. Grand total $151,490. Noted Feb. 18.

O., Canton—Bd. Control, asphalt paving 23rd St. N. W., from Frazer to Cleveland Aves. N. W., to Wise Bros., 1126 11th St. N. W., $41,287. Engrs. est. $40,000. Noted Mar. 25.

O., Cincinnati—Hamilton Co. (**e. e. means engineers estimate**), to J. Slone, 2312 Mound Ave., Norwood, improving Creek Rd. from Plainfield to Madisonville Rds., 2,000 cu.yd. grading at $0.30 per cu.yd., 10,400 sq.yd. tar macadam (base course 6 in.) $1.10 per sq.yd. (top course 3 in.) $0.50, and 26,000 gal. tar $0.15, total $21,790 e.e. $25,000, and Plainfield Rd. from Creek to Sycamore Rds., 4,000 cu.yd. grading $0.30, 31,200 sq.yd. tar macadam (base course 6 in.) $1.10, (top course 6 in.) $0.50, and 80,000 gal. tar $0.15, total $64,823 e.e. $73,000; from Pickelheimer & Slone, 406 Palace Theatre Bldg., improving Old Indian Hill Rd. 2,000 cu.yd. grading $0.50, 14,400 sq.yd. tar macadam (bottom course 6 in.) $1.10 (top course 3 in.) $0.50, 36,000 gal. tar $0.15, total $30,603, e.e. $33,630, and State Rd. from Nagel Rd. to Clough Pk., 3,000 cu.yd. grading $0.50, 16,900 sq.yd. tar macadam (base course 6 in.) $1.10, (top course 3 in.) $0.50, 43,000 gal. tar $0.15, total $35,960, e.e. $39,835. Grand total $153,176. Noted Feb. 18.

O., Cincinnati—Comrs. Hamilton Co., to O. E. Radabaugh, Hazelwood, improving road from Cincinnati-Dayton Rd. to Cincinnati-Zanesville Rd., 6,000 cu.yd. grading at $0.30 per cu.yd., 29,400 sq.yd. tar macadam (base course 6 in.) $1 per sq.yd. (top course 3 in.) $0.50, and 76,000 gal. tar $0.145, total $57,956. Engrs. est. $70,230. Noted Apr. 22.

O., Cleveland — Grading and concrete curbing, etc., Rockefeller Park, to V. Q. Galier, Builders Exch., Rose Bldg., $40,385.

O., Millersburg — Holmes Co., grading, curbing and paving, etc., Sect. "B" Winesburg Walnut Creek Rd., to Griggs Anderson Co., Mullersburg, $26,250, engrs. est. $25,000; also Sect. "A" above road, to Holmes Constr. Co., Millersburg, $25,291, engrs. est. $30,000.

O., New Philadelphia — Tuscarawas Co., waterbound macadam paving 6 mi. Newport-Gilmore Rd., to C. G. Fuller, Dover, $95,495. Noted May 6.

O., Youngstown — Asphalt paving Taft St., to Kelley & Meyer Co., Youngstown, $27,188. Engrs. est. $30,000.

Ind., Evansville—Bd. Pub. Wks., asphalt paving, etc., Gum St., Runnymeade and Beninghof Aves., to L. Reichert Constr. Co., 705 Furn Bldg., approximately $40,000. Noted Apr. 22.

Mich., Muskegon — H. L. Brown, engr., 711-13 Union Bank Bldg., concrete paving, etc., 18,440 sq.yd. McGraft St. in Glenside sub-division, to Whitlow & Hobeck, South Haven, $46,234. Engrs. est. $54,557. Noted May 6.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, to Edwardsville Constr. Co., Edwardsville, concrete surfacing 1.65 mi. Route 4, Sect. D-1 $34,686, and 3 ft. widening 0.11 mi. Route 4, Sect. D-2 $575, both Macoupin Co.; to F. W. Smith & Co., Rensselaer, Ind., concrete surfacing 7.3 mi. Route 16, Sect. 23 and 23-X, Madison and Macoupin Counties $122,486, to Cameron Joyce-Smith-Elder Co., Keokuk, Ia., 0.75 mi. Route 9, Sect. 30, Hancock Co. $16,370, to W. F. Sell, Pana, 0.38 mi. Route 16, Sect. 12-X, Shelby Co. $7,693, to Harrison Eng. & Constr. Corp., Mutual Bldg., Kansas City, Mo., 1.96 mi. Route 30, Sect. 1 $17,108, 4.21 mi. Route 30, Sect. 2 $76,722, 4.73 mi. Route 30, Sect. 7 $107,928, 7.08 mi. Route 30, Sect. 8 $142,881, all Peoria Co., 9.22 mi. Route 40, Sect. 10, Joe Daviess Co. $165,885, and 9.64 mi. Route 40, Sect. 11, Carroll and Joe Daviess Counties $184,113; to Keating Bros., Auburn, grading 1.36 mi. Route 1, Sect. 42-A, Saline Co. $15,782, to Hamilton-Huffman Constr. Co., Carbondale, 0.64 mi. Route 13, Sect. 13-A, Jackson Co. $16,794, and to Smith Bros. Constr. Co., Decatur, 0.5 mi. Route 12, Sect. 17-V-1, Marion Co., $18,848. Grand total $927,872. Noted Apr. 15.

Ill., East St. Louis — Concrete curbing and rein.-con. paving 7,720 sq.yd. 75th St., to Louis Rich Constr. Co., Arcade Bldg., $36,475. Engrs. est. $39,800. Noted Apr. 1.

Ill., Elmhurst — Paving various streets, to W. Black, 1928 Monterey Ave., Chicago, $162,000. Noted Jan. 28.

Wisconsin — State Hy. Dept., Madison, graveling, etc. 775 cu.yd. F.A.P. 417-A, Green Co., to P. Fess, Madison $303,652, 13,956 cu.yd. F.A.P. 372-B, Rusk Co., and F.A.P. 372-A, Barron Co., to D. H. Clough & Co., 405 Palladio Bldg., Duluth, Minn. $97,246 and $70,305 respectively, F.A.P. 377-C, Washburn Co., and F.A.P. 438-A, Polk Co., to V. Nelson, 2002 Maryland Ave., Superior, $122,276 and $28,121 respectively; also constructing Amnicon Bridge, on F.A.P. 377-B, to A. Prine, Ellsworth $9,630. Grand total $631,230. Noted Apr. 15.

Wisconsin—State Hy. Dept., Div. Office 1, Capitol Annex, Madison, concrete paving, etc., 75,288 sq.yd. Federal Aid Projects 428-A and B, Jefferson and Rock Counties, to Schuster Constr. Co., Denmark, $184,601. Noted Apr. 22.

Wis., Madison—Hy. Comn. Dane Co., concrete paving, etc., Madison-Verona Rd., to R. R. Birdsall & Sons, Racine, $136,578.

Wis., Madison—Hy. Com. Dane Co., concrete paving Madison-Oregon Rd., to F. Hayes, Janesville, $150,635.

Wis., Madison — Dane Co. Hy. Comn., graveling, etc., 7,597 cu.yd. Waunakee-Token Creek Rd., and 8,131 cu.yd. Verona-Oregon Rd., to Kutzke & Gallagher, Oregon, $24,232 and $9,351 respectively, 6,500 cu.yd. State Trunk Highway 30, and 2,800 cu.yd. State Trunk Highway 73, to R. Foll, Deerfield, $6,305 and $7,935 respectively, 1,000 cu.yd. Lake View Rd., to F. H. Muenkel, Oregon, $1,950, 4,452 cu.yd. Burke Marshall Rd., and 2,300 cu.yd. Marshall-Cottage Grove Rd., to P. W. Ryan & Sons, Janesville, $28,467, 6,445 cu.yd. Edgerton-Cambridge Rd., to F. M. Limpke, Edgerton, $18,750, 3,500 cu.yd. Gaston School-Seminary Rd., Job D-99-09, and 2,500 cu.yd. Trunk Highway 41 west from Mazomanie, to A. W. Gallagher, Madison, $3,675 and $2,850 respectively, 5,600 cu.yd. State Trunk Highway 10, to E. M. Koenig, Sauk City, $12,376, 7,286 cu.yd. Dane-Morrisonville Rd., to Drew & Garry, Evansville, $25,206, 2,000 cu.yd. Trunk Highway 81 north from Mazomanie, to G. Hughes, Highland, $1,600, 5,000 cu.yd. Trunk Highway 73, to P. Berg, Cambridge, $5,500, and 1,725 cu.yd. Ashton-Marxville Rd., Job D-96-02, to C. M. Stravaaldsen, Madison, $6,609; crushed stone surfacing, etc., 4,293 cu.yd. Mt. Vernon-Belleville Rd., to C. H. Olson & Co., Blanchardville, $19,933. Grand total $150,513.

Wis., Stevens Point — Hy. Com. Portage Co., concrete paving, etc., 154,537 sq.yd. Nelsonville-Stevens Point Rd., State Project 4059, to J. F. Bloomer, Appleton, $373,805.

Wis., Wausau—Hy. Com. Marathon Co., grading, etc., 99,954 cu.yd. Abbotsford-Wausau Rd., State Project 4231, to Potter Dredging Co., Wisconsin Rapids, $34,017.

Wis., West Allis—A. L. Wichner, supt. Bd. Pub. Wks., to McGucken & Vender Hayden Co., 314 Fowler St., Milwaukee, improving 21 streets, 40,000 sq.yd. vibrolithic concrete paving at $2.10 per sq.yd., 11,000 sq.yd. rein.-con. $2, and 19,000 sq.yd. amiesite asphalt $2.56; also to Milwaukee General Constr. Co., 427 Mitchell St., Milwaukee, 2,400 sq.yd. amiesite asphalt at $2.56. Noted Apr. 22.

Ia., Boone—Boone Co., gravel surfacing 14 mi. secondary road, to E. C. Melohn, Nevada, $28,876. Noted Apr. 15.

Ia., Chariton—Lucas Co., to J. H. Miller & Son, Monroe, improving Federal Aid Project 63-B and F, 89,033 cu.yd. excav. at $0.28 per cu.yd., and 590 ft. culvert labor $0.20.

Ia., Des Moines—To Des Moines Asphalt Paving Co., 2nd and New York Sts., improving various streets, 17,000 sq.yd. concrete paving at $2.15 per sq.yd., and 3,800 sq.yd. brick paving $3.26.

Ia., Des Moines—Polk Co., to J. H. Miller & Son, Monroe, improving roads, 88,000 cu.yd. excav. at $0.27 per cu.yd., 1,000 cu.yd. loose rock excav., $0.75 and 1,000 cu.yd. solid rock excav. $1.50.

Ia., Ft. Dodge—Webster Co., to H. R. Maudlin, Nevada, improving Dist. 1, 2,000 cu.yd. gravel 1 mi. haul at $0.27 per cu.yd., 15,000 units ½ mi. haul $0.0675, 500 cu.yd. stripping, $0.17; Dist. 2, 2,500 cu.yd. gravel 1 mi. haul $0.27, 47,000 units ½ mi. haul $0.065; Dist. 3, 2,500 cu.yd. gravel 1 mi. haul $0.27, 22,500 units ½ mi. haul $0.075, 650 cu.yd. stripping $0.17; and County System, 8,000 cu.yd. gravel 1 mi. haul $0.27, 10,500 cu.yd. 1 mi. haul $0.02, 20,450 units ½ mi. haul 0.0675, 2,450 cu.yd. stripping $0.17.

Ia., Garner — Hancock Co., grading Hutchins-Corwith and Hutchins-Waden Rds., to A. J. Fleckenstein, Independence, $26,571. Noted Apr. 22.

Ia., Grundy Center—Grundy Co., to P. Jensen, Waterloo, improving Federal Aid Project 266, 5,396 ft. 6 in. tile drain at $0.0119 per cu.yd., 1,500 ft. 8 in. $0.175, 625 ft. 10 in. $0.25, 2 intakes at $15 each; to Shirley-Caldwell Co., Omaha, Neb., 57,922 cu.yd. excav. $0.279, 325 cu.yd. rock excav., $2, 60,940 sta.yd. overhaul $0.02, 280 ft. 15 in. culvert labor $0.40, 100 ft. 18 in. $0.50, clearing right-of-way $955.50. Noted Apr. 8.

Ia., Nevada—Story Co., improving Dists. 13, 43 and 47, 23,000 cu.yd. gravel hauling, to Moore & Eldridge, Clemons, $28,846.

Ia., Newton—Jasper Co., grading 6.9126 mi. Kellogg-Poweshie Rd., Federal Aid Project 64-F and G, 161,380 cu.yd. excav., etc., to J. H. Miller, Cordova, $51,442. Noted Apr. 8.

Ia., Red Oak—Montgomery Co., grading, etc., 7.008 mi. primary road north of Villisca, 193,302 cu.yd. excav., etc., to G. W. Condon, 514 Federal Reserve Bldg., Omaha, Neb., at $0.198 per cu.yd. Noted Apr. 22.

Ia., Rock Rapids — Lyons Co., to V. Schaaf & V. Stouwe, Hull, improving Secondary Dist. 8, 7,800 cu.yd. gravel at $0.30 per cu.yd., 55,900 units ½ mi. haul $0.07, and 2,000 cu.yd. stripping $0.15.

Ia., Sioux City—Woodbury Co. ,to Lynch & Rhinehart, Sioux City, 3,556 cu.yd. stripping at $0.17 per cu.yd., 5,625 cu.yd. gravel 1 mi. haul $0.45, 21,000 units ½ mi. haul $0.085, 11,250 cu.yd. gravel 1 mi. haul $1.50, 65,700 units ½ mi. haul 0.085. Noted Apr. 15.

Ia., Spirit Lake—Dickson Co. to Schaaf & Jacobsen, Lake Park, improving Crossing Project 416, 1,378 cu.yd. Type A paving at $3.07 per sq.yd., 152 cu.yd. excav. $0.90, 216

Streets and Roads (Continued)

sq.yd. sidewalks $1.89, 350 ft. guard rail $0.57, and 2 paving intakes $22.50 each.

Ia., Waterloo — Black Hawk Co., to Mackie & Co., Waterloo, improving County Road System, 17,628 cu.yd. excav. at $0.30 per cu.yd., 2.95 mi. blade grading at $445 per mile, and 2.58 mi. at $410; to C. Hansen, 8,010 ft. 6 in. standard tile drain at $0.12 per ft., 3,424 ft. 6 in. at $0.14, and 4,000 ft. 10 in. vitr. tile drain at $0.14.

Minn., Duluth—F. W. Borgen, aud. St. Louis Co., grading, etc., 250,000 cu.yd. North Line Rd. between Miller Trunk Highway and Hibbing, to E. W. Coon, Hibbing, $150,830.

Minn., Duluth—F. W. Borgen, aud. St. Louis Co., grading, 67,000 cu.yd. Duluth Heights between 6th and 9th Aves., to A. N. Nelson, 1001 East 10th St., $47,072.

Minn., St. Paul—A. E. Eggert, city purch. agt., 11,878 sq.yd. 2.5 in. brick and 2,449 sq.yd. tarvia or penetration asphalt paving Dale St. between Como Ave. and Wheelock Parkway, to Thornton Bros., 318 Endicott Bldg., $46,731. Noted Apr. 29.

Kan., Kingman—For 3 in. vitr. brick with asphalt filler on 5 in. concrete paving various streets, to H. Taylor, Salina, $125,-000.

Kan., Lyons—Rice Co., concrete surfacing, etc. 2.064 mi. Federal Aid Project 331-A, to M. R. Ammerman, 248 North Market St., $61,550. Noted Apr. 15.

Kan., Manhattan—Riley Co., brick surfacing, etc. 1.068 mi. Federal Aid Project 327-A, to M. R. Ammerman, 248 North Market St., Wichita, $58,480.

Kan., Topeka—For 2 in. asphalt on 7 in. concrete paving 60,000 sq.yd. various streets, to Kaw Paving Co., 616 N. E. Bldg., $211,553.

South Dakota—State Hy. Dept., Pierre, **(F. A. P. means Federal Aid Project, and S. A. P. means State Aid Project)**, grading, etc., 270,000 cu.yd. F. A. P. 158-B, Clay Co., and 100,000 cu.yd. S. A. P. 133, Moody-Minnehaha Counties, to W. R. Larson Constr. Co., Sioux Falls, $57,805 and $38,-733 respectivley, 160,000 cu.yd. F. A. P. 162-C, Jackson Co., and 61,600 cu.yd. F. A. P. 181-D, Dewey Co., to N. J. Alson, Scenic, $72,876 and $28,884 respectively, 105,700 cu.yd. F. A. P. 181-B, Potter Co., to N. W. Engineer Co., Kadoka, $24,209, 95,000 cu.yd. F. A. P. 183-B, Spink Co., and 88,000 cu.yd. F. A. P. 191-E, Kingsbury Co., to Dowd Bros. & Noonan-Hyde Co., Watertown, $36,-557 and $30,650 respectively, 100,000 cu.yd. F. A. P. 194-C, Brule Co., to R. P. England, Mitchell, $48,115, 90,000 cu.yd. F. A. P. 194-B, Hand Co., to Tobin & Maloney, Madison, $37,980, 175,000 cu.yd. F. A. P. 185-F, Jones Co., to G. W. England & Son, Murdo, $59,945, and S. A. P. 137, Mellette Co., to Gilmore & Hollenbeck, Kennebec, $5,630; graveling, etc., 16,700 cu.yd. F. A. P. 161, Hanson Co., and 16,400 cu.yd. F. A. P. 166, McCook Co., to Summit Constr. Co., Summit, $15,417 and $9,419 respectively. Grand total $466,455. Noted Apr. 15.

Mo., Hannibal — Sheet asphalt on brick resurfacing 28,000 sq.yd., also brick paving 4,250 sq.yd. Bway. between Main and North Maple Sts., curbing and 6 in. rein.-con. paving 11,292 sq.yd. Hope St., and 4,682 sq.yd. Sycamore St., to Hannibal Contr. Co., Hannibal. Noted Apr. 8.

Mo., St. Louis—Bd. Pub. Serv. 208 City Hall, shallow granite block paving 6,055 sq.yd Walnut St., to Eyermann Constr. Co., 1216 South Grand Blvd. $50,313, Warrenite paving, etc. 53,060 sq.yd. Lindell Ave., to Granite Bituminous Paving Co., Ry. Exch. Bldg. $204,335, and 4,025 sq.yd. Compton Ave., to Central Paving & Constr. Co., 6161 Maple Ave. $32,924; Willite asphalt paving, etc. 1,555 sq.yd. Nashville St., and asphalt paving, etc. 2,619 sq.yd. Botanical St., to Webb-Boone Paving Co., 5103 Fyler Ave. $10,418 and $20,922 respectively, 7,860 sq.yd. Clark St., and 1,210 sq.yd. California St., to C. A. Moreno, Syndicate Trust Bldg., $52,174 and $5,799 respectively, 8,285 sq.yd. Cook Ave. and 1,795 sq.yd. Cook St., to Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., $52,364 and $12,050 respectively, 3,900 sq.yd. Plover St., to Bridges Asphalt Paving Co., Buder Bldg., $22,942. Grand total $464,240.

Tex., Boston—Bowie Co. grading, bridging and gravel surfacing 6.965 mi. Highway 98, State Aid Project 644, to W. Fooshee & H. G. Gafford, Paris, $35,972. Noted May 6.

Tex., Ferris — Collin Co., 1½ in. Uvalde rock asphalt on 5 in. concrete paving various streets, to W. E. Dozier, 230 Austin Natl. Bank Bldg., Dallas, $124,871. Engrs. est. $135,000. Noted Feb. 18.

Tex., Galveston—Permanent paving 21st St. from Ave. F to Ave. J, Ave. I from 23rd to 25th Sts., Ave. F to Ave. J, Ave. I from 23rd to 25th Sts., and Ave. F from 20th to 21st Sts., to W. A. Kelso & Co., 2220 C St., approximately $26,000.

Tex., Hondo — Walton & Arneson, engrs., c/o Gunter Bldg., San Antonio, 1 in. limestone rock asphalt surfacing 35.3 mi. Highway 3, Medina Co., to Colglazier & Hoff, 922 Austin St., San Antonio, $171,003. Noted Apr. 15.

Tex., Houston—For 2 in. rock asphalt paving Caroline St. from Pierce Ave. to Holman Aves., to Uvalde Rock Asphalt Co., 829 Bankers Mortgage Bldg., $104,956.

Tex., Huntsville — Walker Co., grading and bridging 17.273 mi. Highway 45, State Aid Project 664-B, to Smith-Boyette Co., Bryan, $74,016. Noted Mar. 11.

Tex., Sweetwater — Nolan Co., grading and bridging 7.82 mi. Highway 70, State Aid Project 524-C, to R. B. Stroup, Oklaunion, $27,534; also sledged stone on bituminous paving, 15.22 mi. Highway 1, Federal Aid Project 444-B, Unit 2, to Atex Constr. Co., Eastland, $240 837. Noted May 6.

Tex., Uvalde—H. C. King, judge Uvalde Co., 1 in. rock asphalt surfacing 27 mi. Highway 3, to Lone Star Constr. Co., c/o Alamo Natl. Bank Bldg., San Antonio, $121,574. Noted Apr. 8.

Tex., Wichita Falls—For 1½ in. asphalt paving 5 blocks York Ave., to West Texas Constr. Co., c/o Staley Bldg., at $2.76 per yd.

Okla., Hollis—Grading and concrete paving 8,710 sq.yd. Street Impvt. Dist. 1, to E. W. Baker, 414 Medical Arts, Oklahoma City, $25,614. Engrs. est. $29,316. Noted Apr. 20.

Idaho—State Hy. Dept., Boise, improving 3.377 mi. Federal Aid Project 86-B, Canyon Co., to O. Nelson, Logan, Utah, $88,421. Noted Mar. 18.

Idaho—State Hy. Dept., Boise, grading, etc., 0.547 mi. Emmet branch of Payette State Highway, State Aid Project 95, Gem Co., to Hollerbach Constr. Co., Boise, $16,-869. Noted Mar. 25.

Nevada — State Hy. Dept., Carson City, **(F. A. P. means Federal Air Project)**, improving F. A. P. 90-E, Elko Co., Contr. 138, and F. A. P. 100-A, Churchill Co., Contr. 140, to A. D. Drumm, Jr., Fallon, $36,547 and $30,427 respectively; F. A. P. 90-D-A-B, Elko Co., Contr. 139, to Reynolds Ely Constr. Co., Springfield, Utah, $54,337; and F. A. P. 89-B and C, Douglas Co., Contr. 141, to Tieslau Bros., Reno, $45,806. Grand total $167,117. Noted Apr. 15.

Arizona — State Hy. Dept., c/o W. C. Lefebvre, ch. engr., improving Holbrook-Winslow Highway, Federal Aid Project 40-Reo, to G. W. McMillan, El Paso, Tex., $34,578.

Wash., Chehalis — Grading, crushed graveling, etc., 11,000 cu.yd. Permanent Highway 14, to H. E. Doering, Portland, Ore., $35,187. Noted Apr. 15.

Wash., Seattle—Paving 15th Ave. St. et al, to Moceri Bros., 924 23rd Ave. $61,944.

Calif., Hayward — Curbing, guttering, Warrenite bitulithic on asphalt paving A St. between Western Pacific R.R. and Filbert St., to King & Jones, Hayward, $31,660.

Calif., Los Angeles—Bd. Pub. Wks., to Boulevard Land Co., 111 West 4th St., curbing portion De La Guerra St., etc., 13,189 ft. heavy at $0.60 per ft., 34,032 ft. light $0.50, Buena Ventura Ave., etc., 4,782 ft. heavy $0.60, 44,004 ft. light $0.50, Rigoletto St., etc., 1,780 ft. heavy $0.60, 16,344 ft. light $0.50, and 225,605 sq.ft. cement walk $0.175 per sq.ft.; to J. M. Shull, 1260 Locust Ave., grading, sidewalks, concrete paving, etc., 70th St. between Hoover and Vermont Aves., $31,250; to C. W. Sparks, 142 North Commonwealth Ave., curbing, sidewalks, concrete paving, retaining walls, etc., on Argosy Way between Tuxedo Terrace and Canyon Dr., $33,315; to H. A. McCray, Amer. Bank Bldg., 10 in. concrete paving 170,912 sq.ft. Cahuenga Pass Rd., at $0.285 per sq.ft. Noted Apr. 15.

Calif., Los Angeles — Grading, curbing, rock and oil surfacing and concrete paving, etc., portion of Crescent Heights Blvd., to G. H. Oswald, 366 East 58th St., $41,542.

Calif., Los Angeles — Grading, curbing, walks and concrete paving, etc. Fargo St. between Alvarado and Allesandro Sts., to O'Brien & Collins, 1566 Murray Circle, $51,869; also grading, curbing, guttering, asphalt and concrete paving, etc. Neptune St. between Anaheim St. and Inner Bay Exception Line, to G. H. Oswald, 366 East 58th St., $404,480. Noted Apr. 15 and 29.

Calif., Newport Beach — City Council, grading, curbing, guttering, walks and concrete paving Coast Blvd., etc., to J. P. Benson, 943 South Windsor Blvd., Los Angeles, $281,895.

Calif., Santa Barbara—First Natl. Bank, curbing, walks, etc. on Samarkand Hills Tract, to C. T. Richardson, 525 West Haley St., $36,540.

Calif., Santa Cruz — Grading, curbing, walks and paving, etc., Cayuga, Hiawatha Sts., etc., to Thompson Bros., Fresno, $33,-098.

Ont., Beaverton — Curbing, guttering, bitulithic concrete on concrete paving 1 mi. various streets, to Warren Bituminous Paving Co., 54 University Ave., Toronto. Engrs. est. $50,000. Noted Apr. 1.

B. C., Point Grey — For 7 in. concrete paving one side Dunbar St. from 37th to 41st Aves., to Armstrong, Morrison & Co., 543 Granville St., Vancouver, $25,[illegible]

Buildings—Commercial

Proposed Work

New Hampshire — ARMORIES — State, State House, Concord, rejected bids Apr. 29, 2 story and basement, 62 x 91 ft., armory at Keene, and 88 x 115 ft. armory at Berlin, both brick and stone. To exceed $150,000. Will probably readvertise. Butterfield-Gretin Co., Beach St., Manchester, archts. Noted Apr. 22.

Vt., Barre—ARMORY—State of Vermont, H. T. Johnson, genl. Montpelier, having revised plans prepared by F. L. Austin, 240 College St., Burlington, 3 story, 76 x 124 ft., rein.-con. and stone armory. $150,000. Former bids rejected. Noted Apr. 8.

Mass., Boston — HOSPITAL — Commonwealth of Massachusetts, Health Dept., State House, plans Massachusetts Sanatarium to care for cancer patients. $500,-000. Engineer and architect not selected.

Mass., Boston — HOTEL — Corporation, c/o W. I. Schell, atty., 73 Tremont St., plans probably 14 story hotel, or site of old Youngs Hotel. To exceed $150,000. Engineer and architect not selected.

Mass., Lawrence—AUDITORIUM—City, Auditorium Com., having plans prepared by J. E. Allen, 283 Essex St., for auditorium. To exceed $150,000.

Mass., Malden (br. Boston)—MARKET—J. B. Blood Co., 94 Summer St., Lynn, plans 1 story and basement, brick, 414-424 Main St., here. To exceed $150,000. Engineer and architect not selected.

Mass., Worcester—AUDITORIUM—City, Pub. Building Dept., will not construct auditorium, 5,000 seating capacity, Lincoln Sq. $2,500,000. Project abandoned. Noted Apr. 15.

Conn., Bridgeport — BANK — West Side Bank, 1418 State St., having plans prepared by E. B. Caldwell, 886 Main St., 2 story and basement, 55 x 110 ft., brick and stone bank. $150,000.

Conn., Hartford — COURT HOUSE — Hartford Co. Building Com., S. H. Graham, secy., receiving competitive plans court house, Washington St. $1,500,000. Noted June 11.

Conn., New Haven — STORE and OFFICE—F. W. Woolworth Co., 834 Chapel St., having plans prepared by Westcott & Mapes, Inc., 207 Orange St., 6 story, 75 x 75 ft., brick and steel, Chapel St. $200,000.

N. Y., Brooklyn—APARTMENT—Owner, c/o McCarthy & Kelly, archts. and engrs., 159 Remsen St., having plans prepared 6 story, brick and stone, plain foundation, Ft. Hamilton Ave. $350,000.

N. Y., Buffalo—STORE and OFFICE—A. B. Watson, Fidelity Bldg., had plans prepared by Bly & Lyman, 505 Delaware Ave., 3 story, 150 x 190 ft., store and office, Elmwood Ave. $190,000.

N. Y., Long Beach—HOTEL—L. Saltzman, S. Ash, and T. Schwarzman, c/o F. E. Quimby, engr. and archt., 110 William St., New York, having plans prepared brick and steel, plain foundation, Boardwalk. $4,000,-000.

N. Y., New York — CLUB HOUSE — Rutgers Club, 314 West 91st St., soon take bids 5 story, brick and stone, plain foundation, West 91st St. $150,000. C. Whinston & Bro., 2 Columbus Circle, engrs. and archts.

N. Y., New York — HOSPITAL — State Hospital Comrs., Albany, soon takes bids brick and stone, plain foundation, 168th St. and Haven Ave., for Psychiatric Hospital, 168th St. and Bway. $2,000,000. Noted Dec. 31.

N. Y., Rochester—STORE and OFFICE—S. Firestone, engr., 59 South Ave., soon take bids 4 story and basement, 36 x 165 ft., brick and steel, plain foundation, 202 East Main St., for Neisner Bros., 49 East Ave. $300,000.

N. Y., Rochester — STORE, THEATRE and OFFICE—L. Lempert, archt., 1154 Mercantile Bldg., preparing plans 2 story and basement, 127 x 160 ft., brick, steel and stone, South Clinton St., for Greater Rochester Properties, 207 Lafayette Bldg., Buffalo. $1,125,000.

N. Y., Yonkers—HOTEL—Bardley Realty Co., c/o Deutsch & Schneider, engrs. and archts., 35 Maiden Lane, New York City, having plans prepared brick, steel and stone, plain foundation, Park Hill, here. $1,300,000.

N. J., Elizabeth—Y. M. C. A., 1164 East Jersey St., C. N. Durrie, chn., 530 Madison

Buildings—Commercial (Continued)

Ave., plans new building. $500,000. Engineer and architect not selected.

Pa., Phila.—STORE—W. H. Gravell & A. W. Hall, archts., Otis Bldg., soon lets contract 4 story and basement, 40 x 153 ft., rein.-con., brick and steel, plain foundation. 1915-19 Chestnut St. $200,000. Owner's name withheld.

Pa., Pittsburgh—APARTMENT HOTEL—Hamilton Impvt. Co., takes bids about July 1, 4 story and basement, irregular shaped apartment hotel, Penn Ave. and Fairmont St. $230,000. F. Giffen, Magee Bldg., archt.

Pa., Pittsburgh — CLUB HOUSE — East Liberty Bowling Assn., Collins Ave. and H. C. Hodgkins, archt., take bids about May 10, 3 story and basement, 100 x 187 ft. clubhouse, Collins Ave. $150,000.

Pa., Pittsburgh—Y. M. C. A. having plans prepared by R. M. Trimble, Ferguson Bldg., 4 story and basement, 60 x 100 ft. building North Ave. and Monterey St. $250,000. Former bids rejected. Noted Apr. 15.

Fla., Ft. Myers—HOTEL—C. W. Russell and associates, having plans prepared by W. H. Thomas, Ft. Myers, for Community Hotel. $1,100,000.

Fla., Perry—HOTEL—Griner Hotels, Inc., and associates, soon lets contract for Dixie-Tayler Hotel, steel and rein.-con. $260,000. F. A. Winn, Jr., 706 Franklin St., Tampa, arch. Noted Mar. 11.

Fla., St. Petersburg—HOTEL—B. Ely purchased site and plans hotel on site of Old Christian Church. $1,000,000.

Miss., Jackson — HOSPITAL — State Impvt. Com., Jackson, appointed N. W. Overstreet, archt., Jackson, to prepare plans hospital for insane, near here. $2,500,000. Noted Apr. 18.

O., Cleveland — APARTMENT — and LODGE — G. Stewart, archt., Pittsburgh Bldg., St. Paul, Minn., takes bids about June 1, 10 story and basement, brick, steel and concrete, East 40th St. and Windsor Ave., for Fraternal Order of Eagles, Aerla 135, T. J. Long, pres. $1,400,000.

O., Cleveland—AUTO SALES and SERVICE—Barnes Motor Co., (Dodge Bros. Agency), c/o W. P. Barnes, pres., 1938 East 21st St., purchased 100 x 376 ft. site and plans 3 or 4 story, brick and rein.-con., 2830 Prospect Ave. $300,000. Engineer and architect not selected.

O., Massillon—OFFICE—Ohio Pub. Serv. Co. soon takes bids 4 story and basement, 66 x 90 ft. modern construction, Mill and Plum Sts. $160,000-$175,000.

Ind., Gary—HOTEL—Gary Land Co., 6th St. and Bway., having preliminary plans prepared 12 story and basement hotel. $2,000,000.

Ind., Indianapolis — THEATRE — O. Markum, 4020 East New York St. takes bids about May 14, 2 story and basement, 82 x 137 ft., brick, steel and rein.-con., 1,600 seating capacity, 3432 North Illinois St. $150,000. Noted Apr. 29.

Mich., Detroit—APARTMENT—Owner, c/o G. W. Graves, archt., 41 John St., had plans prepared 9 story and basement, 92 x 156 ft., rein.-con. and brick, plain foundation. $300,000.

Ill., Chicago—HOSPITAL—Garfield Park Hospital, 3813 West Washington Blvd., having plans prepared by Schmidt, Garden & Martin, 104 South Michigan Ave., 8 story and basement, 75 x 158 ft., rein.-con., brick and steel, 3821-3825 West Washington Blvd. $650,000.

Ill., Chicago — HOSPITAL — Ridge General Hospital, Inc., having plans prepared by P. T. Johnstone, 190 North State St., 6 story and basement, X shaped, 385 ft. long, rein.-con., brick, tile and terra cotta, 6542-6614 Ridge Blvd. $1,500,000.

Ill., Chicago — OFFICE and STORE — Medical Arts Club, 30 North Michigan Ave., having plans prepared by D. H. Burnham & Co., 160 North State St., 23 story and basement, 100 x 120 ft., fireproof, Lake St. and Wabash Ave. $3,000,000.

Ill., Chicago—THEATRE, STORE and APARTMENT — A. Cotter, c/o Chicago Electrical Equipment Co., 9 West 22nd St., having plans prepared by E. P. Rupert, 170 North State St., 3 story and basement, 198 x 210 ft., brick and terra cotta, 91st St. and Cottage Grove Ave. $750,000. National Theatres Corp., 310 South Michigan Ave., lessee.

Ill., Joliet—HOTEL—Zimmerman, Saxe & Zimmerman, archts., 212 East Superior St., preparing plans and take bids in June or July, 8 story and basement, 70 x 140 ft., brick and stone, Scott and Clinton Sts., for Clinton Square Hotel Co., 415 Clinton St. $350,000. Foundation for above, to Chicago Heights Constr. Co., Chicago Heights.

Wis., Manitowoc—HOTEL—M. Tullgren & Sons Co., archts., 9 Waverly Pl., Milwaukee, takes bids about May 17, 6 story and basement, 92 x 120 ft., rein.-con., brick, and terra cotta, plain foundation, North 8th St., for Manitowoc Hotel Corp., G. Vits, 15th and Franklin Sts., pres. $300,000. Noted Mar. 18.

Mo., St. Louis—EMPLOYES—Bd. Pub. Serv., 208 City Hall, soon takes bids group 2 story and basement, rein.-con., brick and stone buildings at City Sanitarium, Arsenal St. $466,000. L. R. Bowen & H. Updike, engrs., and L. R. Bowen & A. Osburg, archts., all 301 City Hall.

Tex., San Antonio—BUSINESS—McCrory Stores Corp., 1107 Bway., New York City, takes bids about May 18, 2 story and basement, 140 x 190 ft., rein.-con. and brick, plain foundation, Houston and Navarro Sts., here. $200,000. Private plans. Noted Jan. 7.

Wash., Seattle—CLUB—Rainier Club, J. Collins, pres., takes bids about May 26, 4 story, 56 x 66 ft., brick and terra cotta addition, 4th and Marion Sts. $150,000. Bebb & Gould, Denny Bldg., archt.

Calif., Santa Barbara—COURTHOUSE—Santa Barbara Co. plans election $700,000 bonds, fireproof courthouse. Previous election defeated. Noted Jan. 21.

B. C., Vancouver—OFFICE—W. Dicks, 45 Hastings St. E., takes bids about Sept. 7, 4 story, 52 x 120 ft., rein.-con. and terra cotta, Hastings and Homer Sts. $150,000. Townley & Matheson, 325 Homer St., archts.

Bids Desired

Mass., Boston — STORE and SALESROOM—See "Contracts Awarded."

Mass., Brookline (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Worcester — THEATRE, STORE and APARTMENT—M. J. Steinberg, Main St., Webster, taking bids 3 story and basement, 75 x 95 ft., brick and steel, Peidmont St., here. $150,000. Blachall & Elwell, 44 Bromfield St., Boston, archts.

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York—LOFT—See "Contracts Awarded."

Pa., Phila. — APARTMENT — I. Dozer, 5649 Sansom St., taking sub-bids 4 story and basement 100 x 150 ft., brick and steel, plain foundation, Chestnut St. between West 62nd and 63rd Sts. $300,000. Private plans.

Pa., Phila. — HOTEL — W. L. Charr, archt., Victory Bldg., taking sub-bids 5 story and basement, 55 x 235 ft., rein.-con., brick and steel, plain foundation, 915-17 Walnut St., for J. E. Becker & D. Rosen, 411 Walnut St. $400,000. Work will be done by separate contracts.

O., Youngstown — GARAGE — E. W. Leedy, Stambaugh Bldg., taking bids 6 story and basement, 107 x 161 ft., brick and rein.-con. garage. $300,000. B. E. Brooke, Park Theatre Bldg., archt. and engr.

Mo., Kansas City — APARTMENT — See "Contracts Awarded."

Mo., Kansas City—OFFICE, THEATRE and BUSINESS—See "Contracts Awarded."

Mo., Maplewood (br. St. Louis)—HOTEL—See "Contracts Awarded."

Calif., Brawley — HOTEL — O. C. Frye, archt., Grosse Bldg., Los Angeles, taking bids 4 story and basement, rein.-con. hotel, here, for Brawley Hotel Co. $200,000.

Calif., Inglewood—HOTEL and STORE—C. C. Frye, archt., Grosse Bldg., Los Angeles, taking bids 4 story and basement, 90 x 185 ft., brick and rein.-con., Queen and Locust Sts., here, for Income Community Properties Co., Inc.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles — THEATRE — Chotiner Amusement Corp., 3000 West 8th St., taking bids 2 story, 130 x 137 ft., brick, Northwest 9th St. and La Brea Blvd. $275,000. R. D. King, 1124 Van Nuys Bldg., archt. Noted Oct. 1.

Calif., Los Angeles—THEATRE, STORE and OFFICE—L. O. Macloon, 940 South Figuero St., taking bids 3 story, 120 x 141 ft. theatre, 44 x 141 ft. store and office, rein.-con., 736-46 South Figueroa St. $150,000. L. A. Smith, Film Exch. Bldg., archt.

Calif., Oakland — APARTMENT — See "Contracts Awarded."

Calif., Oakland — CATHEDRAL — C. Werner, archt., Santa Fe Bldg., San Francisco, taking bids steel and stone, Oak St. facing Lake Merritt, for Masonic Cathedral Assn. of Oakland. $1,000,000. Noted Jan. 21.

Calif., Oakland — HOSPITAL — E. W. Cannon, archt., 1924 Bway., taking bids 2 story, brick and steel, 51st and Dover Sts., for Baby Hospital of Alameda Co., c/o architect. $200,000. Noted Feb. 4.

Calif., San Francisco — WAREHOUSE and OFFICE — H. J. Brunnier, engr., Sharon Bldg., taking bids 2 story, concrete, 4th and Townsend Sts., for Amer. Radiator Co., 2nd and Townsend Sts. $150,000 or more. Noted Mar. 18.

Bids Received

N. Y., New Rochelle—BATH HOUSE—Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, May 10, bath house at Glen Islands Park, here, Contr. 58, from Kenneth Mackay Co., Inc., Hook Rd., Yonkers, $207,525. Noted Apr. 22.

N. J., Trenton—FIRE HEADQUARTERS—City Comn., general contract 2 and 4 story fire headquarters, Perry St., from General Constr. and Con. Co., Broad St. Bank Bldg., $276,500. Noted Apr. 22.

Tenn., Murfreesboro—HOSPITAL—City, Rutherford Co. and endowment, S. E. Christy, chn., brick, stone and concrete hospital, from Foster-Creighton & Co., 4th and 1st Natl. Bank Bldg., Nashville, approximately $150,000. Noted Mar. 4.

Neb., Omaha — SERVICE—Metropolitan Utilities Dist., City Hall, Apr. 27, 4 story, 140 x 172 ft., steel, 20th and Center Sts., from Parsons Constr. Co., Grain Exchange Bldg., $307,376. Noted Feb. 4.

Calif., Berkeley—LODGE—I. O. O. F. Hall Assn., general contract 3 story and basement, steel and rein.-con., Bancroft Way, from Conner & Conner, 1726 Grove St., $135,500. Noted Apr. 29.

Contracts Awarded

N. H., Littleton — THEATRE — H. B. Eames, 2 story, 60 x 125 ft. steel and stucco, to I. F. Pennock & Son, Littleton. Archts. est. $150,000. Noted Aug. 20.

Mass., Amherst — THEATRE — Lawler Bros., Federal St., Greenfield, 2 story and basement, brick and steel, Amity and Pleasant Sts., to M. J. Walsh & Sons, 1412 Dwight St., Holyoke. Archts. est. $150,000. Noted Apr. 1.

Mass., Boston — APARTMENT — The Embassy, Inc., c/o J. S. Draper, 209 Summer St., 11 story and basement, 150 x 150 ft., brick and steel, 390 Beacon St., to W. H. Whitcomb Constr. Co., 6 Beacon St. Archts. est. $1,250,000. Noted Apr. 29.

Mass., Boston—MARKET—Boston Real Estate Trust, c/o Shepard & Stearns, archts., 65 Franklin St., 4 story and basement, 65 x 107 ft., brick, Union and North Sts., to Archdeacon & Sullivan, 5 East Concord St. Archts. est. $160,000. First Natl. Stores, 5 East Concord St., lessees. Noted Apr. 15.

Mass., Boston — STORE and SALESROOM—Carlin & Cheney, 333 Washington St., will build 9 story and basement, 60 x 75 ft., 39-49 Portland St. $200,000. Work will be done by separate contracts. G. N. Jacobs, 4 Park St., archt. Noted Apr. 22.

Mass., Brookline (br. Boston)—APARTMENT—Berch & Cadigan, 62 Dover St., Boston, will build 3 story and basement, brick and stone, Thatcher St. $170,000. Work will be done by separate contracts. F. A. Norcross, 46 Cornhill, Boston, archt.

Mass., Brockton — BANK — Brockton Natl. Bank, C. R. Fillebrown, pres., 2 story and basement, rein.-con., brick and stone, Main and Church Sts., to H. C. Briggs Co., 695 Belmont St. Archts. est. $150,000. Noted Apr. 15.

Mass., Hyannis—TOWN HALL—Town, E. W. Lovell, chn. com., 2 story, basement and 2 wings, 65 x 95 ft., brick and stone, to C. A. Batson Co., 25 Arlington St., Brockton. Archts. est. $150,000. Noted Apr. 22.

Mass., Peabody—CLUB—Salem Country Club, R. Lawson, chn., 2 story, brick, to Pitman & Brown, 11 Washington St., Salem. Archts. est. $150,000. Noted Apr. 22.

Conn., Guilford—THEATRE and STORE—United Theatres, Inc., c/o J. Weinstein, archt., Metropolitan Bldg., Chapel St., New Haven, 2 story, brick and steel, plain foundation, Water St., here, to F. D. Spencer, 43 South Fair St. Archts. est. $150,000. Noted Feb. 11.

N. Y., Brooklyn—THEATRE—Emblum Holding Co., 292 Flatbush Ave., brick and stone, plain foundation, Sutter Ave., to M. Shapiro & Son, 1560 Bway., New York City. Archts. est. $400,000.

N. Y., Buffalo—THEATRE—J. Rosing & Sons, Lafayette Theatre, for theatre, Bway. and Detroit St., to Chase Paris Constr. Co., c/o H. L. Spann, archt., 52 West Chippewa St. $350,000.

N. Y., New York — APARTMENT — C. Gioffi, c/o L. Pisciotta, archt. and engr., 565 East Tremont Ave., archt., will build 5 story, brick and stone, plain foundation, Cypress Ave., by day labor. Archts. est. $200,000.

N. Y., New York—APARTMENT—Spoffard Impvt. Co., c/o L. Pisciotta, archt. and engr., 565 East Tremont Ave., will build 5 story, brick and stone, plain foundation, Tremont Ave., by day labor. Archts. est. $200,000.

N. Y., New York—LOFT—Realty Constr. Co., c/o Shampan & Shampan, archts and engrs., 188 Montague St., Brooklyn, archts., will build 21 story, brick and stone, 309 7th

Buildings—Commercial (Continued)

Ave. $2,000,000. Work will be done by separate contracts, under supervision of architects.

Pa., Beaver Falls — HOTEL, BANK, OFFICE, etc.—G. Davidson, 1st Natl. Bank Bldg., 5 and 6 story and basement, 108 x 136 ft., to H. Wimer, Butler. Archts. est. $250,000. Noted Nov. 12.

Pa., Phila.—HOTEL—See "Bids Desired."

Pa., Pittsburgh — HOSPITAL—Columbia Hospital Assn., Wilkinsburg, general contract 4 story and basement, irregular shaped addition West St., to C. H. Kerr Co., Vanadrum Bldg. Archts. est. $150,000.

Pa., Pittsburgh—STORE and OFFICE—L. A. Meyron & H. H. Heene Estate, c/o E. G. Hartje, Nicholas Bldg., 5 story and basement store and office building 5th Ave., to F. W. Woolworth Co. (contractor and lessee), 233 Bway., New York City, N. Y. Archts. est. $350,000.

Pa., Wilkinsburg — HOTEL — Jansen & Cocken, archts., Century Bldg., Pittsburgh, general contract 6 story and basement, 122 x 128 ft. hotel, Penn and Center Aves., here, to E. Z. Peffer, Hill Ave., for Penn Lincoln Hotel. $600,000. Noted Apr. 15.

Ala., Birmingham—HOTEL—D. O. Whilldin, archt., Birmingham, 19 story, 100 x 125 ft., steel and terra cotta, 2nd Ave., to Foster-Creighton Co., 4th and 1st Bldg., Nashville, for Jefferson Hotel Co. 1,500,000. Noted Apr. 1.

Tenn., Memphis—WAREHOUSE—W. E. Stansbury, 244 Stonewall Pl., branch contract 2 story warehouse, Front St., to Wessels Constr. Co., North Front St. Archts. est. $150,000. Pittsburgh Steel Co., Exch. Bldg., lessee.

Ill., Chicago—APARTMENT—W. Wallen & Sons, 6712 North Clark St., masonry and concrete contract 8 story and basement, 150 x 225 ft., rein.-con. and brick, Sheridan Rd. and Foster Ave., to Shellberg Constr. Co., 6712 North Clark St.; plumbing, to Nelson Bros., 3530 North Clark St. Archts. est. $2,000,000. Noted Apr. 8.

Ill., Chicago—APARTMENT—H. Lanski of Sheridan Building Corp., 77 West Washington St., masonry contract 7 story and basement, 60 x 250 ft., 1148-1152 Sheridan Rd., to J. Troff, 3735 North Clark St. Archts. est. $750,000. Noted Apr. 29.

Ill., Chicago — APARTMENT — Edsall Manor Apartment Building Corp., c/o A. Proskaner, archt., 159 North State St., terra cotta contract 6 story and basement, 50 x 143 ft., 915 Glengle Pl., to Midland Terra Cotta Co., 105 West Monroe St.; masonry contract, to N. S. Constr. Co., 4440 North Kedzie Ave.; steam fitting, to Kohlbry Howlett Co., 63 West Ontario St. Archts. est. $350,000.

Ill., Chicago — BANK — W. H. Lantz, archt., 806 West 79th St., masonry contract 2 story, 50 x 117 ft., rein.-con., brick and stone, Halsted St. between 78th and 79th Sts., to Olson Bros., 6901 Euclid Ave., for Mutual Natl. Bank, 7829 South Halsted St. Archts. est. $250,000. Noted Feb. 4.

Ill., Chicago — HOSPITAL — D. G. Wallace, archt., 22 West Monroe St., general contract 6 story and basement, 50 x 174 ft., fireproof, 6970 North Clark St., to Ebenholtz & Jorgensen, 1720 California Ave., for S. P. Machler, 159 North Lake St. Archts. est. $450,000.

Ill., Chicago — THEATRE, STORE, OFFICE and APARTMENT — Northwestern Amusement Co., 4750 Milwaukee Ave., general contract 3 story and basement, 125 x 158 ft., Menard Ave. and Irving Park Blvd., to S. L. Cooper, 139 North Clark St.

Wis., Fond du Lac — COURT HOUSE — Fond du Lac Co., 3 story and basement, brick, stone and concrete plain foundation, general contract, to L. F. Schroeder Constr. Co., 13 East 1st St., $98,921. Noted Apr. 15.

Wis., Milwaukee—THEATRE and BUSINESS—Bay View Theatre Co., c/o F. Rigas, 174 2nd St., 2 story and basement, 160 x 182 ft., brick, concrete and terra cotta, plain foundation, Kinnickinnic Ave., to Czaplewski Bros., 613 Mitchell St. Archts. est. $300,000.

Kan., Abilene—PASSENGER STATION —See "Buildings—Industrial."

Neb., Grand Island — THEATRE — E. Wolbach, for Capitol Theatre, for Universal Films Corp., to Goehring-Sothman Co., Grand Island, $175,000. Noted Apr. 1.

Neb., McCook — COURT HOUSE — Red Willow Co., 4 story, 70 x 100 ft., rein.-con. and brick, plain foundation, to F. Swanson, McCook, $169,896. Noted Feb. 18.

Mo., Kansas City—APARTMENT—G. L. Williams, Peoples Trust Co., R. A. Long Bldg., will build 2 story and basement, 118 x 158 ft., brick, 10th and Penn. Sts., by day labor, under supervision of R. J. DeLano, Land Bank Bldg. $200,000.

Mo., Kansas City—OFFICE, THEATRE and BUSINESS—Lowes Inc., 1540 Bway., New York City, N. Y., 5 and 12 story and basement, 121 x 138 x 255 ft., rein.-con., steel and terra cotta, 13th, Main and Baltimore Sts., to Midland Investment Co., 18 East 14th St. Archts. est. $4,000,000. Work will be done by separate contracts. Noted Jan. 28.

Mo., Maplewood (br. St. Louis)—HOTEL —Brown Realty Co., 7161 Manchester Ave., will build 7 story and basement, 135 x 155 ft., rein.-con., brick and terra cotta, Manchester and Yale Aves., by day labor. $500,000. Private plans.

Calif., Los Angeles—APARTMENT—D. Lazar, 3871 West 6th St., will build 4 story and basement, 115 x 126 ft., brick, South Lake St., by day labor. $150,000.

Calif., Los Angeles—APARTMENT—E. M. Frasier, Insurance Exch. Bldg., 4 story and basement, brick and steel, Western Ave., to J. P. Taylor, 1117 Insurance Exch. Bldg., $150,000.

Calif., Los Angeles — APARTMENT — P. W. Howles, 5 story and basement, 70 x 120 ft., rein.-con., South St. and Andrews Pl., to N. H. Dickerman, 2795 West 8th St., $150,000.

Calif., Los Angeles — APARTMENT — Union Eng. Co., Bartlett Bldg., will build 4 story and basement, 50 x 115 ft., brick and steel, Ocean View Ave., by day labor. $150,000.

Calif., Los Angeles — STORE — Ralphs Grocery Co., 926 West 7th St., general contract 2 story, 150 x 200 ft., rein.-con., 7th Ave. and Washington St., to Bradbury Constr. Co., 1925 East 16th St., $132,500.

Calif., Los Angeles — STORE, OFFICE and GARAGE — M. Winter, c/o N. W. Alpaugh, archt., 2404 West 7th St., 13 story and basement, concrete and steel, Spring St., to Winter Constr. Co., 2404 West 7th St. Archts. est. $500,000.

Calif., Los Angeles—THEATRE—Morgan, Walls & Clements, archts., Van Nuys Bldg., rein.-con., Hollywood Blvd., to W. Simpson Constr. Co., Bank of Italy Bldg., for Hollywood Music Box, Inc. $168,500. Noted Feb. 25.

Calif., Oakland — APARTMENT — Sommarstrom Bros., 1536 Franklin St., will build 4 story, brick and steel, Bay Pl. and Montecito St., by day labor. $250,000. Noted Jan. 21.

Calif., San Francisco—APARTMENT and STORE—M. A. Hunt, 916 Van Ness Ave., 6 story and basement, rein.-con., Fern Ave. and Franklin St., to Helbing Co., 916 Van Ness Ave., $150,000.

Buildings—Industrial

Proposed Work

N. Y., Arcade—SHOE FACTORY—O'Dell & Eddy, Arcade, plans rebuilding shoe last factory, recently destroyed by fire, $100,000.

N. Y., Brooklyn — SERVICE, REPAIR SHOP and GARAGE — F. Savignano (owner, archt. and engr.), 6005 14th Ave., preparing plans rein.-con., brick and steel, plain foundation, 8124 18th Ave. $100,000.

N. Y., Kenmore — AIR PRODUCTS PLANT—Air Reduction Sales Co., Inc., 730 Grant St., Buffalo, plans rein.-con. and brick, plain foundation. $40,000.

N. Y., Kenmore—PEROXIDE PLANT—Buffalo Electro-Chemical Co., River Rd., plans plant. $200,000.

N. Y., Messena — WIRE MILL — Aluminum Co. of America, Oliver Bldg., Pittsburgh, Pa., having plans prepared 1 story, 150 x 310 ft., brick and steel mill, here. $350,000. Private plans.

N. Y., New York—SERVICE, REPAIR SHOP and GARAGE—Jardine, Hill & Murdock, archts. and engrs., 347 Madison Ave., preparing plans rein.-con., brick and steel, plain foundation, 250 West 25th St. $80,000. Owner's name withheld.

N. Y., New York—SHOP and STORAGE, etc.—Dept. Water Supply, Gas & Electricity, Municipal Bldg., plans rein.-con., brick and steel shop, storage and distributing building, plain foundation, Jerome Ave. $100,000.

N. Y., Pittsford—POWER HOUSE—Sisters of St. Joseph, c/o J. Flynn, archt., 217 East Ave., Rochester, soon take bids 4 story and basement, rein.-con., brick and stone, power house and boiler room, plain foundation. $750,000.

N. Y., Ray Brook—POWER PLANT—State Hospital Comn., Albany, having plans prepared by State Architect, Albany, brick and stone, plain foundation, here. $[illegible]. Noted Apr. 29.

N. Y., Rochester—GARAGE—St[illegible] & Stone, 208 Natl. Bank Bldg., having plans prepared by R. O. Derrick, 120 Madison Ave., Detroit, Mich., and Gordon & [illegible], associated archts., Sibley Blk., 6 story and basement, 106 x 150 ft., rein.-con., [illegible] and Stillson Sts. $300,000.

N. Y., Yonkers—LABORATORY—Amer. Radiator Co., 40 West 40th St., New York City, having plans prepared by L. [illegible], engr. and archt., South Bway., rein.-con., brick and steel, plain foundation, Bronx River Rd. $100,000.

N. J., Trenton—ELECTRICAL BUILDING—Pub. Serv. Corp., plans electrical building at Pauls Grove. $60,000. Engineer and architect not selected.

O., Marion—FACTORY and OFFICE—Fairfield Eng. Co., takes bids about May 31, 1 story and basement, factory and office, etc., Barnhart St. $40,000.

Ill., Chicago — POWER HOUSE — Graham, Anderson, Probst & White, archts., 80 East Jackson Blvd., soon lets contract 2nd section Crawford Ave. power plant, 1 story, 180 x 213 ft., incl. boiler and turbine rooms, transformer house, etc., for Commonwealth Edison Co., 72 West Adams St. $2,000,000.

Ill., Chicago—DAIRY—Lantz & Christensen, archts., 806 West 79th St., soon takes bids 2 story, 125 x 125 ft. dairy, and 60 x 100 ft. barn, fireproof, West 69th St. and Hoyne Ave., for Clover Leaf Dairy Co., c/o architects. $250,000.

Ill., Chicago — PIE FACTORY — Littler-Davis Pie Co., 113 Ann St., having plans prepared by Mundie & Jensen, 39 South La Salle St., and takes bids about June 2, 2 story and basement factory. $700,000.

Wis., Milwaukee—FACTORY—F. Achaff, 71 2nd St. and Henschien & McLaren, archts., 1637 Prairie Ave., Chicago, Ill., take bids about May 17, 3 story and basement, 86 x 120 ft., brick and concrete, plain foundation, Clybourn St. $75,000.

Mo., St. Louis—BOILER HOUSE— See "Waterworks."

Que., Levis — PAPER MILL — Canadian International Paper Co., Three Rivers, making plans paper mill. $5,000,000. A. H. White, c/o owner, engr.

Bids Desired

Mass., Brighton (Boston P. O.) — REPAIR and SERVICE GARAGE—Warren Eng. Co., engrs., 50 Terminal St., Boston, taking bids 2 story, 40,000 sq.ft. floor space, rein.-con. and brick addition, North Beacon St., here, for Mack Motor Truck Co., 75 North Beacon St. $150,000.

Mass., Cambridge (Boston P. O.)—FACTORY—Lever Bros., Bway., taking bids 3 story and basement, 90 x 90 ft., brick addition. $50,000. C. R. Main, 220 Devonshire St., Boston, engr.

N. Y., New York—SERVICE STATION —May 15, by A. Kahn, archt., 1000 Marquette Bldg., Detroit, Mich., 5 story and basement, 100 x 200 ft., rein.-con., brick and steel, plain foundation, Columbus Ave. and 61st St., here, for Packard Motor Car Co., East Grand Blvd., Detroit, Mich.

Pa., Phila. — DYE FINISHING and POWER PLANT — May 14, by W. E. T. Dyer, archt., Land Title Bldg., 1 story, 54 x 257 ft., rein.-con. and brick, plain foundation, Umbria and Lemonte Sts., here, for Manayunk Plush Co., 109 Levering St., Manayunk.

O., Cleveland—FACTORY—G. S. Rider Co., archts., Century Bldg., taking bids 1 story, 90 x 120 ft., brick and steel addition, East 49th St., for Cleveland Wire Spring Co., J. W. Campbell, secy. and treas., 1281 East 31st St. $50,000.

O., Cleveland — FACTORY — Sawyer Gear & Mfg. Co., W. R. Sawyer, pres., 5122 St. Clair Ave., taking bids 2 story and basement, 100 x 100 ft., brick and steel, 5122 St. Clair Ave. $50,000. Private plans.

Ind., Marion—FACTORY—Suraltz Glove Co., taking bids 1 story, 131 x 161 ft., brick and steel factory. $45,000. Private plans.

Ind., Michigan City—FOUNDRY—Josam Co. taking bids 1 story, 130 x 160 ft., brick and steel foundry. $45,000. Private plans.

Ill., Chicago—MACHINE SHOP, WAREHOUSE, etc.—See "Contracts Awarded."

Wis., Sheboygan — FACTORY — E. A. Juul, archt., Security Natl. Bldg., taking bids 4 story, 40 x 108 ft., rein.-con., brick and steel addition, plain foundation, for Northfield Co., 18th St. and Martin Ave. Noted Apr. 29.

Wis., Stevens Point — FACTORY — See "Contracts Awarded."

Buildings—Industrial (Continued)

Kan., Abilene — FREIGHT and PASSENGER STATION — See "Contracts Awarded."

Mo., St. Louis — BAG FACTORY — See "Contracts Awarded."

Tex., Beaumont—REFINERY—See "Contracts Awarded."

Calif., San Francisco — SHOPS — See "Contracts Awarded."

Bids Received

Tex., San Antonio—CANDY FACTORY—G. A. Duerler Mfg. Co., 325 West Commerce St., 6 story and basement, 140 x 160 ft., rein.-con. and brick, plain foundation, Camp St. near Southern Pacific R.R. tracks, from E. Oeffinger, c/o Builders Exch. Bldg., $150,112. Noted Apr. 22.

Contracts Awarded

Mass., Cambridge (Boston P. O.) — REPAIR and SERVICE GARAGE—E. Adamson, 75 Tremont St., Boston, 1 and 2 story, 90 x 95 ft., rein.-con. and brick, Bay St., to J. J. Powers, 33 Mystic Ave. Archts. est. $50,000.

Mass., Holyoke—BOILER HOUSE—City, Gas Dept., brick and steel boiler house, to P. J. Kennedy Co., Inc., 46 Park St. Archts. est. $40,000. Noted Apr. 15.

Mass., Medfield—REPAIR and SERVICE GARAGE—E. C. Pierce, 1 story, 80 x 120 ft., rein.-con., brick and steel, to A. Kingbury, Spring St. Archts. est. $45,000. Noted Apr. 15.

Mass., Peabody — FACTORY — Hunt-Rankin Leather Co., Summit St., 1 story, timber factory, to Roope & Folkins, 73 North St., Salem. Archts. est. $40,000.

Mass., Watertown (Ind. br. Boston)—REPAIR and SERVICE GARAGE — J. Rubin, 103 Bloomingdale St., Chelsea, 1 story, 100 x 150 ft., brick and steel, Mt. Auburn St., to L. Rubin, 103 Bloomingdale St., Chelsea. Archts. est. $45,000.

R. I., Providence—BRICK FACTORY—W. C. Freene Co., Manufacturing Bldg., 2 story, 40 x 125 ft., with 2 ells, brick and steel, Parsonage and South Sts., to C. K. Rathbone, 112 Medway St. Archts. est. $60,000.

Conn., Stamford—GAS PLANT—Stamford Gas & Electric Co., 11 Bank St., 1 story, 44 x 60 ft., brick and steel gas plant, also gas container, 1,000,000 cu.ft. coal gas daily capacity, to West Gas & Impvt. Co., 441 Lexington Ave., New York City. Archts. est. $175,000.

Pa., Easton — MILL — Ballinger Co., archts., 12th and Chestnut Sts., Phila., 1 story, 118 x 163 ft., rein.-con. and brick addition, plain foundation, St. John St., here, to Bechtel & Bechtel, Easton, for Gunning Silk Co. Noted Mar. 4.

Pa., Fallston (New Brighton P. O.) — MANUFACTURING—Correst Measure Co., Moose Bldg., Rochester, general contract 1 story, 140 x 150 ft., brick and steel manufacturing plant, here, to Inland Constr. Co., 5612 Penn Ave., Pittsburgh. Archts. est. $100,000.

Pa., McKees Rocks—WAREHOUSE and MANUFACTURING—Enterprise Stamping Co., general contract 2 story, approximately 100 x 250 ft. addition, to Austin Co., Union Trust Bldg., Pittsburgh. Archts. est. $150,000.

Pa., Phila.—MANUFACTURING—General Electric Co., Witherspoon Bldg., for Building 9, 74 x 100 ft., Building 10, 106 x 601 ft. and Building 11, 74 x 103 ft., each 7 story and basement, rein.-con. and brick, Elmwood Ave. between 68th and 70th Sts., to Turner Constr. Co., 1700 Walnut St. Archts. est. $1,500,000. Noted Apr. 22.

Md., Baltimore—FACTORY—C. T. Smith & Co., 409 East Saratoga St., 2 story and basement, 75 x 201 ft., rein.-con. and brick, plain foundation, Aiken and Curtain Sts., to Price Constr. Co., Maryland Trust Bldg., $80,000. Noted Apr. 15.

Tenn., Knoxville—MARBLE CUTTING PLANT—Gray-Knox Marble Co., 1 story, 100 x 270 ft., and 90 x 125 ft., rein.-con. and steel additions, to W. L. Nicholson Constr. Co., 102 West Clinch St., approximately $300,000.

O., Cleveland—FACTORY—Amer. Steel & Wire Co., Rockefeller Bldg., 2 story, 95 x 296 ft., steel, 810 Bway., to Amer. Bridge Co., Frick Bldg., Pittsburgh, Pa. Archts. est. $175,000.

Ind., Jasper—FACTORY—Hoosier Desk Co., general contract 3 story, 60 x 200 ft., brick and steel factory, to Seuffert & Olinger, Ferdinand. Archts. est. $40,000.

Ill., Chicago—MACHINE SHOP, WAREHOUSE, etc.—R. C. Weiboldt Co., 1534 West Van Buren St., purchased 131,000 sq. ft. site and will build fireproof warehouse, machine shop, etc., by day labor. $350,000.

Wis., Milwaukee — FACTORY — Seaman Body Corp., 1732 Richards St., 5 story, 100 x 170 ft., brick and concrete, plain foundation, Richards St., to Dahlman Constr. Co., 456 Bway., Milwaukee. Noted Apr. 22.

Wis., Stevens Point—FACTORY—Automatic Cradle Mfg. Co., E. Bukolt, mgr., 235 North 3rd St., will build 4 story, 72 x 80 ft., brick addition, plain foundation, by day labor. F. Spalenka, Normal Ave., archt.

Kan., Abilene — FREIGHT AND PASSENGER STATION—Atchison, Topeka & Santa Fe Ry., 80 East Jackson Blvd., Chicago, C. F. W. Felt, ch. engr., will build 1 and 2 story and basement, 36 x 276 ft., rein.-con., brick and stone freight and passenger station, here, by day labor. $150,000.

Mo., St. Louis—BAG FACTORY—Fulton Bag & Cotton Mills, 612 South 7th St., will remodel 5 story and basement, 130 x 160 ft. bag factory, brick and concrete, Cedar St. $60,000. Work will be done by day separate contracts, under supervision Wedmeyer & Nelson, archts., Wainwright Bldg.

Mo., St. Louis—MILK DEPOT—Pevely Dairy Co., Grand and Chouteau Aves., 1 and 2 story, 130 x 208 ft., brick and concrete, South Kingshighway, to Fruin-Colnon Constr. Co., Merchants Laclede Bldg. Archts. est. $150,000.

Ark., Camden — FACTORY — Camden Furniture Co., H. C., Rothern, pres., 1 story, 40,000 sq.ft. floor space, brick and concrete factory, to J. T. Mendenhall, Camden.

Tex., Beaumont—REFINERY—Magnolia Oil Co., will improve refinery and construct 2 new stills, by day labor. $500,000. Private plans.

Tex., Ft. Worth—BOILER ROOM—See "Buildings—Educational, Religious."

Tex., Gonzales — ICE PLANT — Texas Central Power Co., c/o Frost Bldg., San Antonio, 1 story ice plant, 40 ton capacity, brick and steel, to L. E. Myers, c/o Monadnock Bldg., Chicago, Ill., approximately $128,000 (complete). Noted Apr. 1.

Calif., Redwood City—PACKING PLANT—Pratt-Low Preserving Co., Heller St., 1 story, concrete, Hellar St., to R. O. Summers, 17 North 1st St., San Jose, $42,000.

Calif., San Francisco—SHOPS—Pacific Rolling Mill Co., 17th and Mississippi Sts., will build 1 story, 125 x 180 ft., steel, 17th and Mississippi Sts., by day labor. Private plans.

Ont., Fort Frances—POWER PLANT—Seine River Impvt. Co., general contract 1 story, 60 x 108 ft., rein.-con. and brick power plant, to Backus-Brooks Constr. Co., Fort Frances. Engrs. est. $1,000,000.

Buildings—Educational, Religious

Proposed Work

N. H., Durham—COLLEGE—University of New Hampshire, takes bids about May 15, 2 story and basement, 60 x 120 ft., with 60 x 75 ft. ell, brick. $225,000. E. T. Huddleston, Durham, archt. Noted Dec. 10.

Mass., Dartmouth — HIGH SCHOOL — Town, School Com. having plans prepared by Brown & Poole, 688 Pleasant St., New Bedford, new high school. $150,000.

Mass., Hanover—HIGH SCHOOL—Town, School Com., Town Hall, having plans prepared by J. W. Beal Sons, 185 Devonshire St., Boston, brick and steel, Hanover St. $150,000. Noted Mar. 11.

Mass., Medford (Boston P. O.) — CHURCH — St. James Roman Catholic Church, A. Murphy, pastor, having revised plans prepared by E. T. P. Graham, 171 Newbury St., Boston, 1 story and basement, brick, stone and granite, Fellsway corner 4th St. To exceed $150,000. Former bids rejected. Noted Jan. 28.

Mass., Quincy (Ind. br. Boston) — HIGH SCHOOL—City, City Hall, having plans prepared by Shepard & Stearns, 65 Franklin St., Boston, Junior High School, Center, Roberts and Granite Sts. $400,000.

Conn., Norwich—SCHOOL—City, W. F. Lester, Laurel Hill Rd., plans 2 story and basement, in Norwich Town (suburb). $150,000. Engineer and architect not selected.

Conn., Stamford—SCHOOL—City, F. B. Bartram, chn., having revised plans prepared by Knappe & Morris, 171 Madison Ave., New York City, brick, stone and steel, Strawberry Hill Rd. $800,000.

N. Y., Buffalo — CHURCH — Queen of Peace Roman Catholic Church, 1971 Genesee St., plans church and school, Genesee St. $190,000.

N. Y., New York—SEMINARY—Jewish Theological Seminary, 531 West 123rd St., soon takes bids 5 story, 100 x 140 ft., brick and stone, plain foundation, 527 West 123rd St. J. F. Musselman, 101 Park Ave., engr. A. W. Brunner, 101 Park Ave., archt.

Pa., Phila. — SCHOOL — University of Pennsylvania, 34th and Spruce Sts., having revised plans prepared by J. T. Windrim, Commonwealth Bldg., Graduate School of Medicine, 10 story and basement, 54 x 60 ft., and 62 x 136 ft., 19th and Lombard Sts. $1,500,000. Former bids rejected. Noted Apr. 15.

Pa., Pittsburgh—SCHOOL—St. Adelberts Roman Catholic Church, J. S. Govzynski, pastor, having preliminary plans prepared by Potter, Gabele & Co., Prospect-4th Bldg., Cleveland, O., 3 story and basement, brick, steel and concrete, South 15th St. $500,000.

W. Va., Fairmont—SCHOOLS—Bd. Educ. having preliminary plans prepared by W. B. Ittner, 911 Locust St., St. Louis, Mo., high school and 2 or 3 graded schools, 3 story, concrete, brick and stone. Election soon $1,000,000 bonds for same.

O., Cleveland — HIGH SCHOOL — Bd. Educ., F. G. Hogen, dir., having preliminary sketches made by G. M. Hopkinson, Auditorium Garage Bldg., 4 story and basement, brick and steel, East 107th St. and Euclid Ave. $2,000,000.

Ill., Sycamore—GYMNASIUM and DORMITORY—St. Albans Episcopal School for Boys, c/o I. B. Hastings, pastor, having preliminary plans prepared by Mundie & Jensen, 39 South La Salle St., Chicago, 2 and 3 story, rein.-con., brick and stone gymnasium and dormitory. $200,000.

Mo., Clayton—SCHOOL—Bd. Educ., J. L. Bracken, supt., soon takes bids 2 story and basement, brick, concrete and stone, in De Mun tract. $150,000. W. B. Ittner, 911 Locust St., St. Louis, archt. Noted Mar. 1.

Mo., Sedalia — SCHOOL — Election May 14, $300,000 bonds, school, for Bd. Educ.

Nev., Reno — LIBRARY — University of Nevada had plans prepared by R. D. Farquhar, Security Bldg., Los Angeles, Calif., 2 story, brick, campus. $200,000.

Wash., Seattle—CHURCH—J. Graham, archt., Dexter Horton Bldg., takes bids about May 26, 60 x 184 ft., concrete, brick and stone, 15th St. N. E. and East 42nd St., for University Methodist Church. $150,000. Noted Nov. 26.

Calif., Sanger—HIGH SCHOOL—Sanger High School Dist. defeated $270,000 bonds, fireproof high school. Noted Apr. 1.

B. C., Point Grey—SCHOOLS—Bd. Educ. takes bids about June 3, one school addition and three new schools, each 3 story, rein.-con. and timber, plain foundations. Townley & Matheson, 325 Homer St., Vancouver, archts. for 2 schools, and Gardiner & Mercer, Birks Bldg., Vancouver, archts., for other 2 schools. $300,000 bonds voted. Noted Apr. 29.

Bids Desired

Mass., Boston — CONVENT — Gate of Haven Church, A. Lyons, pastor, taking bids 3 story and basement, brick and stone, South Boston Dist. $150,000. Maginnis & Walsh, 100 Boylston St., Boston, archts.

Mass., Brighton (sta. Boston)—SCHOOL—May 20, by Schoolhouse Dept., City Hall, Boston, 1 story and basement, brick, limestone and granite, plain foundation, Washington St. and Corey Rd., Bennett Dist., here. $150,000. Fay, Spofford & Thorndike, 220 Devonshire St., Boston, archts. Noted Apr. 30.

Mass., Cambridge (Boston P. O.) — PARISH HOUSE and CHAPEL — First Congregational Church, R. Calkins, pastor, 90 Berkley St., taking bids 2 story and basement, 90 x 110 ft., brick and stone, Mason St. $150,000. W. H. McLean, 88 Tremont St., Boston, archt.

Mass., Cambridge (Boston P. O.) — SCHOOLS—Shady Hill School, C. Taylor, principal, taking bids 7 open air schools, one 30 x 85 ft., and others 30 x 100 ft., brick, plain foundations. $150,000. S. W. Meade, Barristers Hall, Boston, archt. Noted Apr. 22.

Mass., Palmer—SCHOOL—Town, School Com., taking bids 2 story and basement, brick, Wire Mill Dist. $150,000. M. W. Maloney, 23 Pearl St., Springfield, archt.

Mass., Roxbury (sta. Boston)—SCHOOL—Roxbury Latin School, c/o Perry, Shaw & Hepburn, archts., 177 State St., Boston, taking bids 2 story and basement, 144 x 244 ft., brick and stone, plain foundation, Spring and Center Sts., here. $400,000.

Buildings—Educational, Religious (Cont.)

Mass., Springfield — CHURCH and PARISH HOUSE — Emanuel Congregational Church Society, E. H. Thayer, pastor, taking bids 2 story and basement, 50 x 110 ft. church and 50 x 85 ft. parish house, brick and stone, White St. and Summer Ave. $150,000. E. C. and G. C. Gardner, 33 Lyman St., archts.

Mass., Waltham (Ind. br. Boston) — SCHOOLS—May 26, by City, H. F. Beal, mayor, Bright School $85,000, and Trapela Rd. School $95,000, each 2 story and basement, brick. Hurchins & French, 11 Beacon St., Boston, archts.

Conn., New Canaan—HIGH SCHOOL—May 21, by Town School Building Com., 2 story and basement, brick and steel, South Ave. $150,000. J. N. Pierson & Son, 198 Jefferson St., Perth Amboy, N. J., archts.

Conn., Stamford—NURSES HOME—May 21, by Stamford Hospital, Hubbard Hill, nurses home, brick and steel. $150,000 plus. G. B. Post & Sons, 101 Park Ave., New York City, archt.

N. Y., Greenwich—SCHOOL—May 20, by Bd. Educ., rein.-con. and brick, plain foundation, Main St. $225,000. Tooker & Marsh, 101 Park Ave., New York City, engrs. and archts. Noted Mar. 18.

N. Y., Maspeth (Ind. sta. Flushing)—SCHOOL—May 20, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 73, 54th Ave. and 71st St., here, for Bd. Educ., 500 Park Ave., New York City.

N. Y., Springfield—SCHOOL—May 20, by W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 52, New York Blvd. from Comfort to Grand Aves., here, for Bd. Educ., 500 Park Ave., New York City.

Pa., Pittsburgh—HIGH SCHOOL—May 13, by Bd. Educ., Fulton Bldg., 2 and 3 story and basement, irregular shaped addition to Langley High School, Charters Ave. $350,000. MacClure & Spahe, Chamber of Commerce Bldg., arcchts.

O., Akron—HIGH SCHOOL—June 4, by Bd. Educ., 2 story and basement, brick high school. $217,000.

O., Lorain—SCHOOL—May 15, by Potter, Gabele & Co., archts., Prospect-Fourth Bldg., 2 story, 85 x 90 ft. school, 54 x 80 ft. convent, and 34 x 48 ft. rectory, brick, for St. Ladislas Roman Catholic Church, A. Koeller, 1412 East 29th St., pastor.

Mich., Lansing—CHEMISTRY BUILDING—May 26, by Malcolmson & Higginbotham, 1219 Griswold St., Detroit, 3 story and basement, rein.-con., brick and steel, plain foundation, campus, here, for Michigan State College, East Lansing. $250,000. Noted Apr. 29.

Ill., Chicago—SCHOOLS—May 26, by Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., Pasteur School, 3 story and basement, 72 x 386 ft., concrete, brick, steel, stone and terra cotta, 58th St. and Kolin Ave. $500,000. J. J. Christensen, 650 South Clark St., archt.

Ia., Sioux City—DORMITORY—May 25, by Beuttler & Arnold, archts., 407 Grain Exch. Bldg., 3 story and basement, 56 x 133 ft., and two 2 story and basement, 42 x 80 ft. units, rein.-con. and brick, concrete pile foundations, Vine Ave., for Morningside College. $205,000. Noted Apr. 22.

Ark., Little Rock—HIGH SCHOOL—May 31, by Special School Dist., R. D. Fones, secy., 800 Louisiana St., 4 story and basement, rein.-con., brick, steel, stone and terra cotta, Park Ave. $850,000. Wittenborg, Delony & Watts, 408 Home Life Bldg., Mann & Stern, A. O. U. W. Bldg., and J. P. Almand, 1107 Boyle Bldg., archts. Noted Jan. 28.

Colo., Greeley—GYMNASIUM—May 26, by Colorado State Teachers College, 150 x 250 ft., brick and rein.-con. gymnasium 40 ft. high, incl. swimming pool. $250,000. W. N. Bowman, Insurance Bldg., Denver, archt. Noted May 6.

Bids Received

N. H., Concord—HIGH SCHOOL—City, H. J. Lake, chn., 97 North Main St., 2 story and basement, brick stone, plain foundation, from L. H. Shattuck, Inc., 208 Granite St., Manchester, $449,458. Noted Apr. 22.

Mass., Worcester—SCHOOL—City, Pub. Building Dept., City Hall, general contract 2 story and basement, brick, steel and limestone, Granite St., from, C. Rocheford, 58 Front St., $175,030. Noted Apr. 29.

N. Y., Brooklyn — SCHOOLS — W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., constructing (1) P. S. 203 (2) P. S. 208 (a) general contract (b) plumbing (c) heating, from Hamilton & Chambers, 29 Bway, New York City (Ia) $277,500; from G. F. Driscoll Co., 248 Union Ave., (2a) $282,875; from J. A. Graf, 111 Putnam Ave., (1b) $26,932; from D. J. Rice, Inc., 606 1st Ave., New York City, (1c) $41,292 and $34,982. Noted Apr. 29.

N. Y., Montrose—HIGH SCHOOL—Bd. Educ., May 3, general contract brick, steel and stone, plain foundation, from Triangle Constr. Co., 57 South Broadway, Yonkers, $266,000; heating, from Johnston Heating Co., 131 East 26th St., New York City, $34,750. Noted Apr. 29.

Calif., Crockett—HIGH SCHOOL—John Sweet Union High School Dist., Apr. 26, general contract steel, concrete and brick high school, from F. L. Hansen, 251 Kearny St., San Francisco, $123,334; brick and hollow tile, from Hock & Hoffmeyer, 180 Jessie St., San Francisco, $56,950. Noted Oct. 22.

Calif., Los Angeles—SCHOOL—Bd. Pub. Wks., Apr. 21, general contract Riis School, 1 and 2 story, brick, 69th St. near Main St., from J. P. Steele, 4714 South Western Ave., $153,000. Noted Apr. 15.

Contracts Awarded

Mass., Amesbury—SCHOOL—St. Josephs Roman Catholic Church, D. F. Lee, pastor, 2 story and basement, brick and stone, Sparhawk St., to L. C. Cyr, 246 Essex St., Lawrence. Archts. est. $150,000. Noted Apr. 22.

Mass., Granby — SCHOOL — Franciscan Fathers, 3 story and basement, 55 x 205 ft., brick and limestone, to W. Martin & Son, 164 State St., Bridgeport, $257,800. Noted Apr. 29.

Mass., Watertown (Ind. br. Boston) — SCHOOL—Town, C. M. Abbott, chn. com., 2 story and basement, brick and stone, Orchard St., to Somers & Drisco, Park Sq. Bldg., Boston. Archts. est. $150,000. Noted Apr. 15.

Mass., Wellesley (br. Boston)—LABORATORY — Wellesley College, 4 story and basement, 60 x 300 ft., brick, steel and stone, to F. T. Ley Co., 495 Main St., Springfield. Archts. est. $400,000. Noted Apr. 22.

Conn., Bridgeport — CHURCH and PARISH HOUSE — St. Johns Roman Catholic Church, 309 Brooks St., 1 and 2 story and basement, 65 x 75 ft., and 40 x 65 ft., brick and steel, Brooks St., to M. Noonan, 171 6th St. Archts. est. $150,000. Noted Apr. 1.

N. J., Newark—SCHOOL—Bd. Educ., altering and constructing brick, steel and stone addition, plain foundation, Maple Ave., to W. D. Sharwell, 377 North 5th St. Noted Apr. 29.

Pa., Idlewild (Carnegie P. O.) — DORMITORY — St. Paul's Orphanage Asylum, general contract 3 story and basement, irregular shaped dormitory, to W. F. Trimble & Sons, 1719 Penn Ave., Pittsburgh. Archts. est. $200,000.

Pa., Pittsburgh — NURSES HOME — St. Johns General Hospital, N. S., general contract 4 story and basement, approximately 65 x 114 ft. nurses home, Fleming Ave., to Rose & Fisher, Martin Bldg. Archts. est. $150,000. Noted Mar. 11.

Md., Baltimore — SCHOOL — Mayor and City Council, 1 story and basement, 73 x 239 ft., brick and steel, plain foundation, Arlington St. at West and Alto Aves., to North-Eastern Constr. Co., Lexington Bldg., $198,840.

O., Cleveland — ENGINEERING, etc. — Wilbur Watson and associates, archts., 4614 Prospect Ave., 3 story and basement, 55 x 147 ft., brick, steel and concrete mechanical engineering building, Euclid Ave. and Adelbert Rd., to S. W. Emerson Co., 1836 Euclid Ave., for Case School of Applied Science, C. S. Howe, pres., Euclid Ave. Archts. est. $250,000. Noted Apr. 1.

Mich., Fordson — HIGH SCHOOL — Bd. Educ., 3 story and basement, irregular shape, rein.-con., brick and steel, plain foundation, to F. R. Patterson Constr. Co., 2631 Woodward Ave., Detroit. $2,000,000. Noted Mar. 4.

Federal Government Work

Bids Desired

Mass., Lynn — Remodeling — May 27, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here; adv. E. N.-R. May 13.

Mass., Rutland Heights — Refrigeration and Ice Making Machinery—May 19, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., refrigeration and ice making plant at U. S. Veterans Hospital 89, here.

Pa., Pittsburgh—Gates—June 9, by U. S. Engineer Office, steel lock gates for Lock No. 5, Allegheny River; adv. E. N.-R. May 13.

Md., Baltimore—Storehouse—May 17, by Treas. Dept. at office Supervising Archt., Wash., D. C., storehouse at U. S. Quarantine Station, here.

D. C., Wash.—Motors, etc.—July 7, by Navy Dept., C. D. Wilbur, secy., main motors, generators, and control equipment for submarines V-5 and V-6; adv. E. N.-R. May 13.

La., New Orleans—Levees—May 26, by U. S. Engineers Office, 140 Decatur St., approximately 1,115,000 cu.yd. earthwork in Pontchartrain and Bayou Boueff Levee Districts.

Tenn., Nashville—May 29, by U. S. Engineers Office, 3 frame dwelling at Locks B, C and D, on Cumberland River, here.

Ky., Louisville — Operating Machinery — June 7, by U. S. Engineer Office, Box 72, operating machinery for locks 46 and 49, Ohio River; adv. E. N.-R. May 13.

Ind., Terre Haute—Boilers—June 3, by Treas. Dept. at office Supervising Archt., Wash., D. C., removing boilers and installing 2 horizontal smokeless fire-box heating boilers, at U. S. Post Office, here; adv. E. N.-R. May 13.

Illinois — Sand, etc. — May 25, by U. S. Engineer Office, 537 South Dearborn St., Chicago, sand and crushed stone or gravel at Chicago; Harbor; adv. E. N.-R. May 13.

Ill., Great Lakes (br. Waukegan)—Spec. 5209—May 19, by Bureau Yards & Docks, Navy Dept., Wash., D. C., mezzanine floor in storehouse at Naval Training Station, here.

Ia., Sioux City—May 18, at office Auditor Woodbury Co., improving Moville-Climbing Hill Rd., 80.748 cu.yd. earth, and 28,612 cu.yd. channel excav., 28,231 sta.yd. overhaul, etc.

Ia., Webster City — May 18, by Auditor Hamilton Co., improving secondary roads, 18,425 cu.yd. gravel 1 mi. haul, 123,800 units ½ mi. haul. W. C. O'Conner, Webster City, co. engr.

S. D., Fort Meade — Dam — May 24, by Quartermaster, intake dam, here.

Missouri — May 20, by U. S. Engineer Office, Kansas City, 1,600 lin.ft. current retards in Missouri River at Darst Bottom.

Washington — Dredging — May 24, by U. S. Engineer Office, Seattle, 16,400 cu.yd. dredging in Hoquian River.

Ore., Empire — Compass Station, etc. — Spec. 5198—June 9, by Bureau Yards & Docks, Navy Dept., Wash., D. C., Naval radio compass station, wharf and radio masts, here.

California — Road — May 25, by C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., 9 Main St., San Francisco, grading and crushed rock surfacing 19,300 cu.yd., Yuba Pass Natl. Forest Highway, Sierra Co.

Hawaii—Dredging—July 15, by U. S. Engineer Office, Honolulu, dredging in Nawiliwili Harbor; adv. E. N.-R. May 13.

T. H., Pearl Harbor—Generator Sets—Spec. 5200—May 26, by Bureau Yards & Docks, Navy Dept., Wash., D. C., motor generator sets, here.

Bids Received

Ore., Astoria—Addition—Treas. Dept. at office Supervising Archt., Wash., D. C., addition to Quarantine Station, etc., here, from Rohaut & Gearhart, Astoria, 3,438. Noted Apr. 15.

Contracts Awarded

D. C., Wash.—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Courthouse, here, to W. L. Morrison Constr. Co., Metropolitan Bank Bldg., $19,300. Noted Apr. 29.

Ill., Macomb—Extension—Treas. Dept. at office Supervising Archt., Wash., D. C., 1 story extension to U. S. Post Office here, to D. Bright, Clinton, Ind., $3,900. Noted Apr. 29.

Ala., Mobile—Quarantine Station—Treas. Dept. at office Supervising Archt., Wash., D. C., 9 buildings for quarantine station, here, to A. C. Samford, 24 Galena Ave., Montgomery, $159,837; mechanical equipment, to W. Wilby, Selma, $44,444. Noted Apr. 22.

Unclassified

Proposed Work

Athletic Centre—South Boston (sta. Boston), **Mass.**—Olympia Fields Co., c/o H. C. Davis & F. A. Kemp, directors, 53 State St., Boston, having plans prepared by J. Barnard, 171 Newbury St., and R. M. Stovell, 184 Boylston St., Boston, athletic centre, incl. stadium, baseball park, dance hall, etc., Columbia Rd., Dorchester Ave., Locust and Hyde Sts., here. $10,000,000. H. S. Clevendon, 177 State St., Boston, engr.

Grade Crossing Elimination—Connecticut—State Hy. Dept., Hartford, making preliminary surveys grade crossing elimination in Falls Village; Scotts Swamp railroad crossing in Bristol; location known as Cycle Bridge Thomaston-Torrington Highway, spanning Naugatuck River and New York, New Haven & Hartford R.R. tracks. $159,000; grading, paving, etc., Reynolds Bridge, 462 ft. long, 28 ft. wide, concrete arch ornamental design, in Thomaston, $280,000; widening underpass, Madison-Clinton Post Rd., grading and paving jointly with New York, New Haven & Hartford R.R., Shore Line Electric R.R., State and Town; grading and paving overhead crossing, New York, New Haven & Hartford R.R. in Andover, $53,000.

Stadium—Niagara Falls, N. Y.—Niagara Frontier & Athletic Assn., plans stadium, 75,000 seating capacity. $3,500,000. C. V. Bush, Brisbane Bldg., engr.

Swimming Pool, etc.—Cleveland, O.—City, F. S. Harmon, dir. Parks, having preliminary plans prepared by H. Kregellus, 604 City Hall, 1 story, 125 x 400 ft., rein.-con. swimming pool and locker rooms, Woodland Hills Park. $200,000. S. Newman, 437 City Hall, engr. Noted Jan. 7.

Underpass — Evansville, Ind. — Vanderburg Co. and Chicago & Eastern Illinois R.R. Co., L. C. Hartley, ch. engr., 66th St. and Union Ave., Chicago, Ill., making surveys and estimates underpass under railroad tracks at Maxwell Ave. $30,000. R. Meisinger, Court House, co. engr.

Sports Arena — Detroit, Mich. — J. C. Townsend & associates, Washington Blvd. Bldg., plan rein.-con., brick and steel sports arena. $1,000,000. Engineer and architect not selected.

Grade Separation—Fordson, Mich.—Made preliminary plans rein.-con. grade separation at Schaefer Rd. and Pere Marquette Ry. tracks. $400,000. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit.

Golf Course—Lancaster, Wis.—Lancaster Golf Club, J. C. Doolittle, pres., purchased site and plans 9 hole golf course, tennis courts, etc. on same. Engineer not selected.

Street Lighting System—St. Louis, Mo.—Making preliminary plans additional units to electric street lighting system, incl. concrete standards complete with lanterns and glassware, cable, etc. $350,000. A. Pritchard, City Hall, dir.

Elimination Grade Crossing—Carthage, Tex.—Panola Co., c/o T. E. Poren, judge, making plans underpass, 0.289 mi. grading and overhead crossing across Gulf, Colorado & Santa Fe R.R. tracks, on Highway 8, Grade Bluff Rd., etc. $25,000. D. E. Martin, Carthage, engr.

Land Development—Corpus Christi, Tex.—H. H. Friar Realty Co., plans 172 acre land development, incl. water and sewer mains, lights, paving, etc. $75,000. Private plans.

Land Development, Corpus Christi, Tex.—Texas State Bank & Trust Co., plans 1,432 acre land development, incl. water, sewer, light and gas improvements. $100,000. Private plans.

Underpass — Houston, Tex. — City, c/o Mayor, and Southern Pacific R.R., H. M. Lull, ch. engr. Texas Lines, Houston, and J. C. McVea, city engr., soon take bids rein.-con. underpass under Galveston, Harrisburg & San Antonio R.R. tracks north of Ship Channel, $134,000; also 2 rein.-con. underpasses under Houston and Texas Central R.R. tracks, $200,000.

Bathing Pavilion—Los Angeles, Calif.—W. P. English, Chapman Bldg., plans bathing pavilion, incl. 4 swimming pools, 20 x 93 ft. 3½-11 ft. deep, and 20 x 50 ft., 3-9 ft. deep, Sunset Blvd.

Bids Desired

Foundations, etc.—Hull, Mass.—May 17, by Town Clerk's Office, concrete lamp post foundations, concrete curbings, etc., on various streets. $25,000. J. Smith, supt. streets.

Cable—Hartford, Conn.—May 18, by Bd. Contr. & Supply City Hall, 7,000 ft. 10 and 11,000 ft. 7 wire cable, for fire alarm system. R. N. Clark, City Hall, engr.

Timber Piles—Albany, N. Y. — May 21 (extended date), at office Albany Port Dist. Comn., 100 State St., timber piles and platform for bulkhead for Port of Albany. T. Fitzgerald, secy.; adv. E. N.-R. May 13.

Heating and Sanitary Work—Raybrook, N. Y.—June 3, by Superintendent Purchase, Capitol, Albany, heating and sanitary work, service connections, etc., for laboratory at New York State Hospital for Incipient Tuberculosis, here; adv. E. N.-R. May 13.

Promenade—Detroit, Mich.—May 6, by H. W. Busch, comr. Parks & Buildings, constructing brick, concrete and stone promenade around James Scott Water Fountain on Bell Isle. $55,000. Cass Gilbert, 244 Madison Ave., New York City, archt.

Coal Bunker, etc. — Janesville, Wis. — Hough Shade Co., A. C. Hough, mgr., 1059 Jackson St., taking bids coal bunker, etc., 12 ft. high, rein.-con. W. H. Blair, Janesville, engr.

Coal Tipple, etc.—Higbee, Mo.—See "Contracts Awarded."

Swimming Pool — Beaumont, Tex. — See "Contracts Awarded."

Swimming Pool — Greeley, Colo. — See "Buildings—Educational, Religious."

Ornamental Lighting System—Los Angeles, Calif. — May 24, by Supervs. Los Angeles Co., 120 steel standards on portions Montrose Ave. (Co. Impvt. 411) and Melrose Ave. (Co. Impvt. 520). To exceed $25,000.

Gas System—Burnaby, B. C.—See "Contracts Awarded."

Bids Received

Bulkhead, etc.—Bronxville, N. Y.—Westchester Co. Park Comn., 72 Pondfield Rd., May 3, excavating, grading and culverts for Approach Road from Pelham Rd. to Glen Islands Park, here, from L. Seiling, Inc., Red Bank, N. J., $49,505. Noted Apr. 15.

Bulkhead, etc. — Bayonne, N. J. — See "Streets and Roads."

Contracts Awarded

Platform Extensions—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., extending Essex St., Bowery and Chambers St. stations of 4th Ave. Rapid Transit R.R., to B. T. and J. J. Mack, 160 Bway., $196,930. Noted May 6.

Arena — Jersey City, N. J. — Journal Square Gardens, Inc., c/o Crane & Franzheim, archts. and engrs., 345 Madison Ave., New York City, 200 x 225 ft., rein.-con., brick and steel sporting arena, plain foundation, Hudson Blvd., to Thompson-Starrett Co., 250 Park Ave., New York City. Archts. est. $7,000,000.

Stadium—Savannah, Ga.—City, rein.-con. stadium in Daffin Park, to Gibson Constr. Co., 205 East Bay St. $53,000.

Stadium — Evansville, Ind. — Bd. Educ., constructing Enlow Field Stadium, 50 x 327 ft. concrete, to Scarbough-Daviess Constr. Co., Old St. Bldg., $77,990.

Foundation—Joliet, Ill.—See "Buildings—Commercial under Proposed Work."

Gas Holder—Beaver Dam, Wis.—Wisconsin Power & Light Co., 16 North Carroll St., Madison, 200,000 cu.ft. capacity gas holder, to Hatter Constr. Co., 128 Western Ave., Fond du Lac.

Street Lighting System—St. Paul, Minn.—Street lighting system with pressed steel posts in St. Anthony Park Dist. and Merriam Park and Hill Dist. 2, to Donovan Constr. Co., 1101 Builders Exch. Bldg., $46,000 and $296,400 respectively. Noted May 6.

Coal Tipple, etc.—Higbee, Mo.—Howard County Mining Co., near here, G. Staffer, genl. mgr., 1012 Baltimore Ave., Kansas City, will build coal tipple, here, by day labor. $300,000. Private plans.

Swimming Pool—Beaumont, Tex.—City, c/o O. J. Bloyd, mgr., will build 80 x 120 ft., rein.-con. swimming pool, by day labor. $30,000. R. C. Black, Beaumont, engr.

Pavilion, etc.—Eugene, Ore.—University of Oregon, c/o L. H. Johnson, comptroller, constructing Bakerball Pavilion, on campus, to A. Pajunen, 809 Alberta St., Portland, $139,168.

Gas Holder—Los Angeles, Calif.—California Gas Co., 950 South Bway., gas holder, steel, to Bartlett-Hayward Co., 200 Scott St., Baltimore, Md., $615,000.

Ornamental Lighting System—Los Angeles, Calif.—Lighting system on 5th St. between Harbor Blvd. and Pacific Ave., to R. A. Wattson, 1026 North McCadden Pl., $29,388.

Ornamental Lighting System—Santa Ana, Calif.—Lighting system on portions of East 4th St., etc., to Robertson Electric Co., 303 North Main St., $25,673.

Pavilion—Santa Barbara, Calif.—David Gray Beach Pavilion, c/o Sauter & Lockard, archts., rein.-con. pavilion, East Cabrillo Blvd., to A. Johnson, 1007 South Grand Ave., Los Angeles, $155,560.

Coke Ovens—Hamilton, Ont.—Hamilton By-Products Coke Ovens (1st unit) coke ovens, to Tope Constr. Co., King Co., King St., West Hamilton, $250,000. Noted Mar. 11.

Steel Gates—Welland, Ont.—Dept. Rys. and Canals, Parliament Bldgs., Ottawa, 30 steel gates, 16,000 tons steel and 4,000 tons castings, to Lyall Constr. Co., 5000 Western St., Montreal, approximately $4,500,000.

Gas System — Burnaby, B. C. — Vancouver Gas Co., Ltd., Carrall and Hastings Sts., Vancouver, will build gas system in various locations, by day labor. $50,000. J. Keillor, engr.

Tunnel—Vancouver, B. C.—Dist. Water Bd., Bekins Bldg., driving 650 ft. tunnel at Barwell Lake, to Vancouver Pile Driving & Contr. Co., 207 Hastings St. W., $29,951.

Materials

Bids Desired

Coal Tar Patching—Boston, Mass.—May 17, by Supply Dept., coal tar patching to various city departments for ensuing year. F. L. Brier, supt.

Cement Blocks—Albany, N. Y.—May 25, at office Albany Port Dis. Comn., 100 State St., manufacturing cement blocks for wharf construction for Port of Albany; adv. E.N.-R. May 13.

Castings—New York, N. Y.—May 17, by J. Miller, pres. Manhattan Boro, Municipal Bldg., steel castings to Corporation Yards.

Rails, Screw Spikes, etc.—Phila., Pa.—May 21, by H. E. Ehlers, dir. Dept. City Transit, 1211 Chestnut St., rail, splice bars, bolts, nut locks and screw spikes, for Broad St. Subway.

Gravel — Louisiana — May 18, by State Hy. Dept., Baton Rouge, approximately 3,276 cu.yd. washed gravel and 6,528 cu.yd. sand gravel for Lake Charles-Lake Arthur Highway, State Project 512-A, Jefferson Davis Parish. Former bids rejected. W. B. Robert, Reymond Bldg., Baton Rouge, highway engr.

Ties — Columbus, O. — May 17, by A. Singleton, purch. agt., Hocking Valley Ry. Co., 421 Spahr Bldg., fifty thousand 8 ft. 6 in. cross ties.

Conduit Pipe—Kenosha, Wis.—May 17, by C. M. Osborn, city mgr., approximately 4,000 ft. 4 hole conduit pipe for fire and police signal system.

Refined Tar—Minneapolis, Minn.—May 21, by F. S. Gram, city purch. agt., 150,000 gal. refined tar, for Bd. Park Comrs., City Hall. A. E. Berthe, engr.

Bids Received

Iron Castings — New York, N. Y. — J. Miller, pres. Manhattan Boro, Municipal Bldg., May 10, iron castings to Corporation Yards, from Campbell Fdry. Co., 33 Manor Ave., Harrison, N. J. $25,123; and from Flockhart Fdry., 79 Polk St., Newark, N. J., $25,123. Noted May 5.

Road Oil—St. Paul, Minn.—F. S. Gram, city purch. agt., Apr. 19, 300,000 gal. road oil, from Standard Oil Co., 3rd and Commercial Sts., at $0.06 per gal. Noted May 6.

Pipe—Pasadena, Calif.—From Amer. C. I. Pipe Co., Rives-Strong Bldg., Los Angeles, 10,000 ft. 4 in. Class "B" pipe at $0.5211 per ft., 40,000 ft. 6 in. $0.7465, 10,000 ft. 8 in. $1.0675, 8,000 ft. 12 in. $1.8524, and 4,000 ft. 16 in. $3.218, f.o.b. Pasadena.

Contracts Awarded

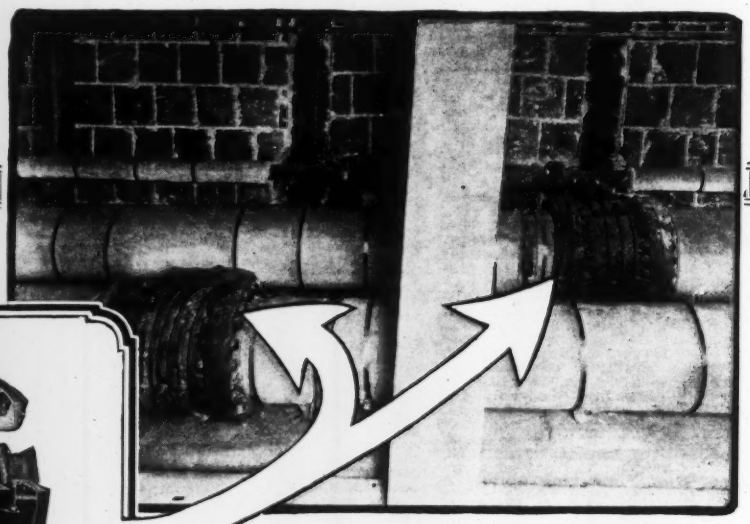
Asphaltic Oil, Etc.—Rhode Island—State Bd. Pub. Roads, State House, Providence, 250,000 gal. asphaltic oil and tar, to M. Moulton Jr., Inc., 6 Beacon St., Boston, Mass., $19,957. Noted under Streets and Roads Apr. 15.

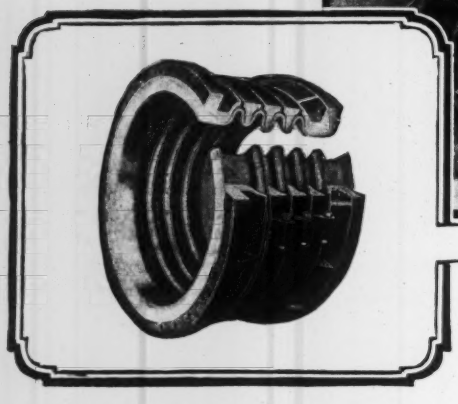
Road Oil — Nashville, Tenn. — Davidson Co. Hy. Comn. 250,000 gal. asphaltic road oil for 1926, to Standard Oil Co. of Louisiana, 1124 Harrison St., at $0.0784 per gal.

Tar — Cincinnati, O. — Comrs. Hamilton Co., 300,000 gal. Grade 1 tar to Hamilton Co. Rd. Repair Dept., to Barrett Mfg. Co., 517 Carr St., $32,250. Engrs. est. $33,000. Noted Mar. 25.

Road Signs — Iowa — State Hy. Comn., Ames, semi-steel cast U. S. markers, state markers, U. S. right and left signs, state right and left turn, curve and railroad crossing signs, to Hart-Parr Co., Charles City, $59,406; 8 and 10 ft. 4 x 4 creosoted yellow pine posts to E. J. Stocking, 111 West Washington St., Chicago, at $0.69 and $0.84 each respectively, total $25,800. Noted Apr. 8.

See proposal advertising on page 134, Advertising Section





BADGER EXPANSION JOINTS

Install them and forget them

Badger expansion joints are life-time insurance against interrupted pipe line service. Only one premium is paid for this protection—the first.

And it's nobody's job to keep them in service. Their one-piece construction of uniform thickness and strength eliminates packing and attention. No maintenance doesn't mean low maintenance. It means just one thing—that Badger Expansion Joints, installed as easily as any pipe line flanged joint, lose nothing in effectiveness by being neglected. It means that Badger Expansion Joints are designed to be installed and then forgotten.

Then think what this means when piping is laid in tunnels. Badger Expansion Joints are leak proof—no shut downs to clear the tunnel of steam to repack or repair—no financial loss from interrupted service—no personal danger.

Badger Expansion Joints insure protection at no upkeep cost. Safety features of design are described in our Bulletin. Write for it today—there's no obligation.

Engineering Service

Badger engineers are designers, manufacturers and installation experts for the following and kindred power plant products:

Spray Cooling Ponds
Cooling Towers
Pipe Bends
Air Washers
Dust Washers
Special apparatus for Cleaning Flue Gases
Chemical Apparatus
Copper and Sheet Metal Work.

TRADE MARK

Since 1841

E. B. BADGER & SONS CO.
75 Pitts Street
BOSTON, MASS.

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Highway, Cuba, Dept. Pub. Wks., Havana, soon takes bids for constructing 700 mi. Central Highway, $60,000,000.

Schools, Cuba, Dept. Pub. Wks., Havana, plans schools, $10,000,000.

Water works, Santiago, Cuba, Dept. of Pub. Wks., Havana plans constructing water-works at Santiago, $5,000,000.

Apartments, Kansas City, Mo. J. C. Nichols Companies had preliminary plans made, $5,000,000 to $7,000,000.

Flour mill, Buffalo, N. Y., Standard Milling Co. having plans prepared, $4,000,000.

College, Portland, Ore., Concordia College having plans prepared, $4,000,000.

Cement plant, Rockland, Me., Consolidated Cement Co. plans cement plant, $3,000,000.

Street work, Toronto, Ont., City Council plans extending and widening Sherbourne St., $2,903,000.

Church, Chicago, Ill., Grace Methodist Episcopal Church having plans prepared, $2,200,000.

Street work, Toronto, Ont., plans widening Block St., $1,500,000.

Engine terminals and shops, Gouldsboro, La., Texas & Pacific R.R. Co. had tentative plans prepared, $1,500,000.

Sewers, Wyandotte, Mich., plans mains and laterals, $1,300,000.

Street work, Pasadena, Calif., voted bonds for street work, $1,150,000.

Water-works, Wichita Falls, Tex., plans bond election for water-works improvements, $1,000,000.

Theatre, store and office, Springfield, Mass. Goldstein Bros. Amusement Co., plans building, $1,000,000.

Bank, Kansas City, Mo., New England National Bank plans building, $1,000,000.

Refinery, Gary, Ind., Standard Oil Co. of Indiana having plans prepared, $1,000,000.

Hotel, San Diego, Calif., Syndicate having plans prepared, $1,000,000.

Hotel, Gulfport, Miss., Markham Hotel Co. plans building, $1,000,000.

Bids Wanted

School, June 2, Washington, D. C. Dist Comrs., $2,250,000.

Water-works, May 18, Hagerstown, Md Bd. Water Comrs., $1,500,000.

Theatre, June 15, Omaha, Neb., Orpheum Circuit, $1,000,000.

Apartment, New York, N. Y., W. Warren soon takes bids, $1,000,000.

Contracts

Sewage Treatment, Chicago, Ill., Bd. Trustees North Side Sewage Treatment Works to J. Griffith & Son Co., $1,538,422.

Granite, Washington, D. C. Executive Officer Arlington Memorial Bridge Com. to Stone Mountain Granite Co., $207,000; to North Carolina Granite Co., $1,615,000.

Hotel and apartment, St. Louis, Mo., Local Syndicate to Widmer Eng. Co., $1,300,000.

Tunnel, San Francisco, Calif., Bd. Pub. Wks. to Youdall Constr. Co., $1,247,562.

Classified Index of Bids Wanted

Waterworks

Bids close		See Eng. News-Record
May 24	Norwalk, Conn.	May 6
May 24	Louisville, Miss.	May 20
May 25	Phila., Pa.	May 20
May 25	Greensboro, N. C.	May 20
May 25	St. Louis, Mo.	May 6
May 25	Wheeling, W. Va. Adv. May 13 and 20.	May 13
May 25	Blairsville, Pa. Adv. May 13 and 20.	May 13
May 25	Edgerton, Wis.	May 20
May 25	Sioux Falls, S. D.	May 20
May 26	Cleveland, O.	May 20
May 27	Quincy (Boston P. O.), Mass.	May 20
May 27	York, S. C.	May 13
May 27	Chandler, Ariz.	May 20
May 28	Fargo, N. D.	May 20
May 28	New York	May 20
May 29	Gulfport, Miss.	Apr. 29
June 2	New York, N. Y.	May 6
June 2	Sanford, N. C.	May 20
June 7	Vermilion, O.	May 20
June 7	Healdsburg, Calif.	May 20
June 7	Placerville, Calif.	May 20
June 7	Rahway, N. J. Adv. May 20.	May 20
June 7	Crosby, N. D.	May 20

Sewers

May 24	Cleveland Heights (Cleveland P. O.), O.	May 20
May 24	Wash., D. C.	May 20
May 24	Chicago, Ill.	May 20
May 25	Niles Center, Ill.	May 20
May 25	West Roxbury (Boston P. O.), Mass.	May 20
May 25	Muskegon, Mich.	Apr. 29
May 25	Niles (mail Chicago), Ill.	May 6
May 25	Plaquemine, La. Adv. May 6 to 20.	May 6
May 25	Onago, Kan.	May 20
May 26	Brooklyn, N. Y.	May 20
May 26	Phila., Pa.	May 20
May 26	Cleveland, O.	May 20
May 27	Chicago, Ill.	May 20
May 27	Milwaukee, Wis.	May 20
May 28	Louisville, Ky.	May 6
May 28	Akron, N. Y. Adv. May 13 and 20.	May 13
May 28	Watkins, Kan.	May 20
May 31	Selma, Ala.	May 13
June 1	Los Angeles, Calif.	May 20
June 2	Detroit, Mich.	May 20
June 7	Crosby, N. D.	May 20
June 8	St. Louis, Mo.	May 13
June 8	Lyndonville, N. Y. Adv. May 20.	May 20

Waste Disposal

Bids close		See Eng. News-Record
May 24	Highlands, N. J. Adv. May 20.	May 20
May 25	New Dorp (sta. Staten Island), N. Y.	May 20
May 27	Galveston, Tex.	Apr. 29
June 3	Mobile, Ala. Adv. May 6 to 20.	May 6

Bridges

May 21	Akron, O.	Apr. 29
May 21	Maskinonge, Que.	May 6
May 21	Pennsylvania	May 20
May 22	Milwaukee, Wis.	May 20
May 25	New York Adv. May 13 and 20.	May 13
May 26	Los Angeles, Calif.	May 6
May 27	Louisiana	Apr. 29
May 27	Pennsylvania	May 20
May 27	Cour d'Alene, Idaho	May 20
May 28	Missouri	May 20
June 1	Massachusetts	May 20
June 1	Sebring, Fla. Adv. May 6 to 20.	May 6
June 1	Mercer, Pa. Adv. May 13 and 20.	May 13
June 1	Santa Cruz, Calif.	May 13
June 1	Jacksonville, Fla. Adv. May 13 and 20.	May 13

Excavation, Drainage, Irrigation, Levees, River and Harbor

May 24	Buffalo, N. Y.	Apr. 22
May 25	Waukon, Ia.	May 20
May 27	New Jersey	May 13
May 31	La Mesa, Calif.	May 20
May 31	Baltimore, Fla.	May 13
May 31	Bradentown, Fla.	May 13
June 1	Galveston, Tex.	Apr. 29
June 2	New York, N. Y. Adv. May 20.	May 20
June 4	Albany, N. Y. Adv. May 13 and 20.	May 13
June 8	Springfield, Ill.	May 20
June 15	St. Louis, Mo.	May 13

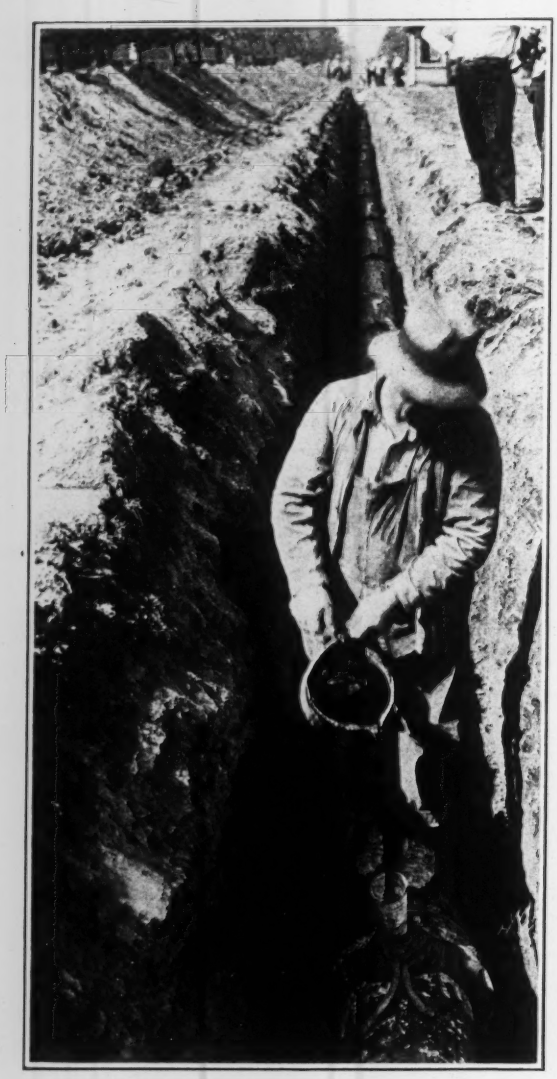
Streets and Roads

May 21	Westmont, Pa.	May 13
May 22	Portland, Me.	May 20
May 22	Milwaukee, Wis.	May 20
May 24	Kansas City, Mo.	May 20
May 24	Amory, Miss.	May 20
May 24	St. Paul, Minn.	May 20
May 24	Norwalk, O.	May 20
May 24	Huntington, W. Va.	May 6
May 24	Garrett, Kan.	May 6
May 24	New Jersey	May 6
May 24	Akron, O.	May 13
May 24	Minneapolis, Minn.	May 13
May 24	Durant, Miss.	May 13
May 24	Michigan	May 13
May 24	Phila., Pa.	May 13
May 24	New York, N. Y.	May 20
May 24	Boston, Mass.	May 20
May 24	Jasper, Ala.	May 20
May 24	Virginia Adv. May 20.	May 20
May 24	Ecorse, Mich.	May 20
May 25	Massachusetts	May 20
May 25	Wisconsin	May 20
May 25	Clayton, Mo.	May 20
May 25	Seymore, Wis.	May 20
May 25	Wash., D. C.	May 20
May 25	Cedar Grove, La.	May 20
May 25	Ft. Wayne, Ind.	May 13
May 25	Minnesota	May 13
May 25	Maryland Adv. May 13 and 20.	May 13
May 25	New York Adv. May 13 and 20.	May 13
May 25	Wellington, Kan.	May 6
May 25	North Dakota	May 6
May 25	Manasquan, N. J. Adv. May 6 to 20.	May 6
May 25	Washington	May 6
May 25	Dartmouth, Mass.	May 13
May 25	Texas	May 20
May 25	Trail, B. C.	May 20
May 25	Carnegie, Okla.	May 20
May 26	Pittsburgh, Pa.	May 20
May 26	Brooklyn, N. Y.	May 20
May 26	Pratt, Kan.	May 6
May 26	Delaware	Apr. 29
May 26	Stuart, Fla.	May 6
May 26	Siler City, N. C.	May 13
May 26	Michigan	May 13
May 26	Rhode Island Adv. May 20.	May 20
May 26	Tyrone, Pa.	May 20
May 26	Nevada	May 20
May 26	Wisconsin	May 20
May 27	Brooklyn, N. Y.	May 20
May 27	Chicago, Ill.	May 20
May 27	Dodge City, Kan.	May 6
May 27	Charleston, W. Va.	May 6
May 27	Michigan	May 13
May 27	Michigan	May 20
May 27	South Carolina	May 20
May 27	Chicago, Ill.	May 20
May 27	Juneau, Wis.	May 20
May 27	Uniontown, Pa.	May 20
May 28	Fargo, N. D.	May 20
May 28	Arizona	May 20
May 28	Medicine Lodge, Kan.	May 6
May 28	La Belle, Fla.	May 13
May 28	Freeport, N. Y.	May 13

See proposal advertising on page 107, Advertising Section

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office



Pouring LEADITE Joints on line of 12-in. c. i. bell and spigot water main.

Durable Pipe Joints

The wise man builds for the future. Supply lines and distribution systems are usually permanent installations.

Durability and quality should be the first consideration of the product used for making joints in cast iron bell and spigot water mains.

LEADITE is a good product and the leader in its field, because it has gained and retained the recognition, support and patronage of such a great number of water works men for so many years.

LEADITE has been tested and used for over 30 years, under all pressures and conditions, by water works, railroads, mines, contractors and industrial plants thruout the country.

Thousands of miles of pipe have been laid with LEADITE joints, on all sizes from 4 in. to 60 in. in diameter.

LEADITE takes the drudgery out of pipe laying; saves time, money and labor; makes flexible joints; makes joints which will stand vibration under tracks, over and under bridges; makes joints which resist electrolysis; eliminates large bell holes; reduces trench pumping and other work incidental to caulking—LEADITE requires no caulking.

Every water works man abreast of the times knows about LEADITE. LEADITE is an interesting and familiar topic at water works conventions and wherever water works men congregate.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%.

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids close		See Eng. News-Record
May 28	Cincinnati, O.	May 20
May 28	Wisconsin	May 20
May 28	Missouri	May 20
May 28	Hamilton, O.	May 20
May 31	Garnett, Kan.	May 13
May 31	Arkansas	May 20
June 1	San Diego, Calif.	May 20
June 1	Gobels, Mich.	May 20
June 1	Birmingham, Ala.	Apr. 22
June 1	St. Louis, Mo.	May 13
June 1	Maryland	May 20
June 1	West Virginia Adv. May 20.	May 20
June 1	Newton, N. J. Adv. May 20.	May 20
June 1	Massachusetts	May 20
June 2	Omaha, Neb.	May 20
June 2	Greensburg, Pa.	May 20
June 3	Pennsylvania Adv. May 20.	May 20
June 4	Columbus, Kan.	May 13
June 5	Groveton, Tex.	May 20
June 7	Akron, O.	May 13
June 7	Salina, Kan.	May 13
June 7	San Jose, Calif.	May 20
June 7	Martinez, Calif.	May 20
June 8	Wabash, Ind.	May 13
June 8	St. Louis, Mo.	May 13
June 8	Eldorado, Kan.	May 13
June 8	St. Louis, Mo.	May 20
June 8	Lakewood, N. J. Adv. May 20.	May 20
June 8	Warsaw, Ind.	May 20
June 8	Dover, N. J. Adv. May 20.	May 20
June 9	Delaware Adv. May 13 and 20.	May 20
June 9	Harrison, Mich.	May 20
June 11	Coldwater, Kan.	May 13
June 11	Fellsmere, Fla.	May 13
June 11	Olathe, Kan.	May 13
June 12	Lake Charles, La.	May 20
June 15	Duluth, Minn.	May 20
June 15	Louisiana	May 20
June 15	Anderson, Ind.	May 13
June 22	Duluth, Minn.	May 20

Buildings—Commercial

May 24	Phila., Pa.	May 20
May 25	Iowa City, Ia.	Apr. 15
May 25	Antigo, Wis.	May 20
May 26	Phila., Pa.	May 20
May 27	Bristol, Conn.	May 20
June 2	Juniata (br. Altoona), Pa.	May 6
June 8	Duluth, Minn.	May 6
June 14	New York, N. Y.	Apr. 29
July 1	Texarkana, Tex.	Apr. 22
Sept. 1	Vancouver, B. C.	Apr. 22

Buildings—Industrial

May 24	Abington, Pa.	May 20

Buildings—Educational, Religious

May 21	Portsmouth, O.	May 13
May 21	Stamford, Conn.	May 13
May 21	New Canaan, Conn.	May 13
May 24	Worcester, Mass.	May 20
May 24	Cleveland, O.	May 20
May 25	Underwood, Ia.	May 6
May 25	Sioux City, Ia.	May 13
May 25	Gretna, La.	May 20
May 25	Belleville, Mich.	May 20
May 26	Greeley, Colo.	May 13
May 26	Chicago, Ill.	May 13
May 26	Lansing, Mich.	May 13
May 26	Waltham (Ind. br. Boston), Mass.	May 13
May 26	East Lansing, Mich.	May 20
May 26	Fordson, Mich.	May 20
May 26	Irvington (br. Newark), N. J.	May 20
May 26	Los Angeles, Calif.	May 20
May 26	Brooklyn, N. Y.	May 20
May 27	Allston (sta. Boston), Mass.	May 20
May 27	Iowa City, Ia.	May 6
May 27	San Leandro, Calif.	May 20
May 31	Woonsocket, R. I.	May 20
May 31	Little Rock, Ark.	May 13
June 1	Mercedes, Tex.	May 20
June 1	Superior, Wis.	May 20
June 2	Wash., D. C.	May 20
June 3	Perth Amboy, N. J.	May 20
June 4	Akron, O.	May 13

Federal Government Work

May 24	Dam—Fort Meade, S. D.	May 13
May 25	Dredging—Michigan Adv. May 6 to 20.	May 6
May 25	Sand, etc.—Illinois Adv. May 13 and 20.	May 13
May 25	Road—California	May 13
May 25	Revetment—Klondike, Mo.	May 20
May 26	Generator Sets—Pearl Harbor, T. H.	May 13
May 26	Extension — Jacksonville, Ill.	May 20
May 26	Sewer—Dayton, O.	May 20
May 27	Remodeling—Lynn, Mass.	May 13
May 27	Sewer—Wash., D. C.	May 6
May 28	Sewers, etc.—Nevada	May 20
May 29	Dwellings — Nashville, Tenn.	May 13
June 1	Steel Barges—Memphis, Tenn. Adv. May 6 to 20.	May 6
June 1	Pier—Charleston, S. C. Adv. May 6 to 20.	May 6
June 1	Mezzanine—Boston, Mass.	May 20
June 3	Remodeling — Nashua, N. H. Adv. May 20.	May 20
June 7	Operating Machinery—Louisville, Ky. Adv. May 13 and 20.	May 13
June 7	Breakwater—Presque Isle, Mich.	May 20
June 8	Hospital, etc.—North Chicago, Ill. Adv. May 6 to 20.	May 6
June 9	Compass Station — Empire, Ore.	May 13
June 9	Gates—Pittsburgh, Pa. Adv. May 13 and 20.	May 13
June 9	Boilers — Terre Haute, Ind. Adv. May 13 and 20.	May 13
June 9	Chimney — Mare Island, Calif.	May 20
June 10	Laboratory—Fort Benning, Ga. Adv. May 20.	May 20
June 10	Tower—New York, N. Y. Adv. May 20.	May 20
June 10	Power Plant, etc.—Hot Springs, Ark.	May 20
June 11	Dredging—Green Bay, Wis. Adv. May 20.	May 20
June 12	Docking Caissons—Huntington, W. Va.	May 20
June 14	Hangar—Wash., D. C. Adv. May 20.	May 20
June 14	Hulls, etc.—Louisville, Ky. Adv. May 20.	May 20
June 15	Barn, etc. — St. Cloud, Minn. Adv. May 20.	May 20
June 16	Houses—Pittsburgh, Pa. Adv. May 20.	May 20
June 21	Hospital, etc.—Palo Alto, Calif. Adv. May 20.	May 6
July 7	Motors, etc.—Wash., D. C.	May 13
July 15	Dredging—Hawaii Adv. May 13 and 20.	May 13

Unclassified

May 21	Timber Piles, etc.—Albany, N. Y. Adv. May 13.	May 13
May 24	Entrance and Exit Plazas—Jersey City, N. J.	May 20
May 25	Stadium—Austin, Tex.	May 6
May 26	Heating, etc.—Kings Park, N. Y. Adv. May 6 to 20.	May 6
May 28	Waterproofing Standpipe, etc.—Walpole, Mass.	Apr. 29
May 28	Tracking, etc.—New York, N. Y.	May 20
May 28	Fill—Corona (Ind. sta. Flushing), N. Y.	May 20
May 31	Wharf—Mobile, Ala. Adv. Apr. 29 to May 20.	Apr. 29
June 1	Wharf Sheds—Lake Charles, La.	May 20
June 3	Heating and Sanitary Work—Raybrook, N. Y. Adv. May 13 and 20.	May 13
June 7	Heating and Ventilating—Detroit, Mich.	May 20
June 9	Culvert, etc.—New Rochelle, N. Y. Adv. May 20.	May 20
Sept. 30	Crane Gantries, etc.—Otahulu, New Zealand	May 20

Materials

May 21	Rails, etc.—Phila., Pa.	May 13
May 24	Cables—Milwaukee, Wis.	May 20
May 24	Sand and Gravel—Minneapolis, Minn.	May 20
May 24	Castings—New York, N. Y.	May 20
May 25	Cement Blocks—Albany, N. Y. Adv. May 13 and 20.	May 13
May 25	Patching Material—Boston, Mass.	May 20
June 4	Gas Pipe, etc.—Richmond, Va.	May 20
June 11	Gravel—Louisiana	May 20

News of New Work

Waterworks

Proposed Work

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

N. J., Trenton—City Comn. soon takes bids 3 m.g. unit at Water Dept. Service Station. $50,000. A. Swan, City Hall, engr.

W. Va., Williamson — See "Streets and Roads."

Miss., Biloxi — Election soon $176,000 bonds, extending distribution system, etc. Hawkins & Madding, Biloxi and Gulfport, engrs.

Miss., Pascagoula — Making preliminary plans extending water system. $20,000.

O., Conneaut — Making plans 4 m.g. capacity plant, mains, etc. $300,000. W. G. Clark, Spitzer Bldg., Cleveland, engr.

Ind., Indianapolis — Water Comrs. plan 12,000 ft. mains to University Heights, south of here. $20,000.

Ind., Michigan City — Plans intake for waterworks. $40,000. C. Brossman, 1503 Merchants Bank Bldg., Indianapolis, engr.

Mich., Detroit—Bd. Water Comrs. making plans 40 x 60 ft. rein.-con., brick and steel booster station at Linwood and Fenkell Aves. $25,000. G. H. Fenkell, 176 East Jefferson Ave., genl. mgr.

Mich., Detroit — Fire Dept. plans high pressure extensions in various sections, incl. c.i. mains with hydrants, valves, etc. $150,000.

Mich., Wyandotte—Made plans extending c.i. mains, etc., in various streets. $380,000. Hubbell, Hartgering & Roth, 2640 Penobscot Bldg., Detroit, engrs.

Ill., Libertyville—Takes bids about June 15th mains in various streets. $100,000. Kelker, DeLeuw & Co., 111 West Washington St., Chicago, engrs.

Wis., Neenah—Bd. Water Comrs., H. S. Zemlock, secy., soon takes bids one 500,000-600,000 gal. stand pipe, probably steel. To exceed $15,000.

Ia., Indianola—Making preliminary plans permanent water supply, either wells or storage reservoir, pumping equipment, distribution system, etc. Currie Eng. Co., Webster City, engrs.

Minn., Mantorville—Making plans waterworks. $25,000. R. A. Meeker, village recdr. Engineer not announced.

Ark., Malvern — J. E. Cox, supt., c/o Water Dept., plans 11,000 ft. 8 in. c.i. pipe from river to filtration plant.

Tex., Como—Takes bids about June 8th, waterworks. $30,000. Former bids rejected. Douglas & Davenport 2 Ward Bldg., Wichita Falls, engrs.

Tex., Wichita Falls—Election June 5, $1,000,000 bonds, waterworks improvements, incl. pumping, filter and softening plants at Lake Wichita, and high pressure mains in city. Address W. E. McBroom, city secy. Noted Dec. 17.

Calif., Laguna Beach—Laguna Beach Co. Water Dist., P. O. Box 647, made plans constructing Reservoir 1, 7,600 cu.yd. excav., 810 cu.yd. rein.-con., 12,900 sq.ft. concrete in floor, etc.; Reservoir 2, 2,800 cu.yd. excav., 338 cu.yd. rein.-con. in walls, footings, etc.; and pumping equipment, 2 deep well turbine pumps, 900 g.p.m. direct connected to 25 hp. motor, 2 horizontal centrifugal 900 g.p.m. pumps direct connected to 100 hp. motor, 2 horizontal cenrtifugal 900 g.p.m. connected to 75 hp. motor, and 1 horizontal centrifugal 300 g.p.m. direct connected to 40 hp. motor. E. A. Rowe, P. O. Box 647, resident engr. J.

See classified index on bids wanted on page 307

When Speed Is Needed Here Is a Way of Getting It

To gain time, people send messages by air mail, special delivery, telegraph and cable. The slight extra cost is fully repaid by the saving in time.

Often in your work, time also is of vital importance and you aim to save it all along the line. Among other things you do not want to wait the weeks usually required for concrete to reach the desired strength. You do not need to.

By using well-authenticated methods and standard *Universal* cement, the same quality *Universal* regularly used, you can secure *strong* concrete in *3 days* and at the same time get a concrete that is much better and much stronger forever after.

Detailed information on the methods for obtaining this *time*-saving, *strong* concrete in *3 days* will be sent promptly on request to

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Waterworks (Continued)

B. Lippincott, Central Bldg., Los Angeles, consult. engr.

Calif., Orange—Bd. City Trustees election May 19, $125,000 bonds, improving water system; also $60,000 bonds, extending joint outfall sewer line.

Calif., Santa Barbara — Making plans rein.-con. arch dam, 45,000,000 gal. capacity at Sheffield Reservoir. C. W. Moore, city engr.

Cuba, Santiago — Dept. Pub. Wks., Havana, plans constructing waterworks, here. $5,000,000. M. A. Coroalles, Havana, state ch. engr.

Bids Desired

Mass., Quincy (Boston P. O.)—May 27, by Dept. Pub. Wks., c. i. mains in various streets, $15,000 bonds; also 50 fire hydrants. Metcalf & Eddy, 14 Beacon St., Boston, engrs.

New York — May 28, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, water supply conduit, strengthening existing conduit, etc., of Brooklyn water supply system, in Kings and Queens counties.

N. J., Rahway—June 7, by Bd. Water Comrs., R. K. Miller, pres., coagulation basin, new filtration plant, etc. Hazen & Whipple, 25 West 43rd St., engrs.; adv. E. N.-R. May 20. Noted Dec. 17.

Phila., Pa.—May 25, by Dept. Pub. Wks., Bureau of Water, 50,000 lb. pig lead, Contr. 813; 6 flow meters, Contr. 416; two 50 ton capacity coal cars, steel, Contr. 819; and electric cables, Contr. 820. G. H. Biles, dir.

N. C., Greensboro—May 25, by City, pipe and other water department supplies for use in street construction. $60,000. E. B. Jeffress, Greensboro, mayor.

N. C., Sanford—June 2, by W. H. Fitts, mayor, earth and concrete impounding dam, coagulating basin, chemical feed house, incl. 20,000 cu.yd. embankment, 3,000 cu.yd. excav., 2,000 cu.yd. rein.-con. paving, 450 lin.ft. 14 and 18 in. pipe line, etc. Guilbert & White Co., Durham, engrs. Noted Apr. 1.

Miss., Louisville—May 24, by Mayor & Bd. Aldermen, Woodward Bldg., 250,000 gal. rein.-con. reservoir.

O., Cleveland—May 26, by Bd. Comrs. Cuyahoga Co., 12,000 ft. 6- to 24-in. c.i. mains in Clifton Blvd. and Sloane Ave., Impvt. 655. F. Williams, Court House, engr.

O., Vermilion—June 7, by Clerk Bd. Pub. Affairs, 1 m.g. filtration plant, 600 cu.yd. excav., 300 cu.yd. concrete and building. $25,000. G. B. Gascoigne, 1149 Leader Bldg., Cleveland, engrs. Noted Dec. 31.

Ill., Chicago—May 24, by City, Room 409, City Hall, 500 Chicago standard fire hydrants, by rail or truck, to City Pipe Yards. A. A. Sprague, comr.

Wis., Edgerton—May 25, by C. A. Hoen, city clk., 12 x 18 ft., brick and concrete pumping station, new well, one 500 g.p.m. motor or engine driven centrifugal pump, and one 6 in. turbine meter. W. G. Kirchoffer, 22 North Carroll St., Madison, engr. Noted May 6.

S. D., Sioux Falls — May 25, by City, W. C. Leysa, aud., engine, generator and pumps for Water Dept. $60,000. Maury & Gordon, 304 South Dearborn St., Chicago, Ill., engrs.

N. D., Crosby—June 7, by O. Woolfrey, city aud., 21,405 ft. 6 and 8 in. c.i. pipe, well, pump house, one 100,000 gal. storage reservoir, one 50,000 gal. elevated steel tank, etc. $35,000. Dakota Eng. & Constr. Co., Valley City, engrs. Noted Apr. 29.

N. D., Fargo — May 28, by City Clerk, large distribution main at west end between north and south sides. $85,000. R. T. Jacobson, city engr.

Ariz., Chandler—May 27, by F. V. Howey, city clk., 35,122 ft. 4- to 12-in. Class "B" c.i. pipe, 40,450 lb. c.i. specials, resets 58 and install 6 new hydrants, thirty-five 4- to 12-in. valves and boxes, well 275 ft. deep, 100,000 gal. steel tank on 110 ft. tower, etc. Wieland Eng. Co., Thatcher Bldg., Pueblo, Colo., engrs. Noted June 25.

Calif., Healdsburg — June 7, by J. W. Hillhouse, city clk., 3,000 4 in. Class "C" vertical c.i. water pipe, c.i. tees and crosses, 4 Corey hydrants, and 1,000 lb. lead.

Calif., Pasadena—City Clerk taking bids Calaveras street reservoir, concrete lined, 10 m.g. capacity. $40,000 or more. S. B. Morris, city water supt. Noted Dec. 24.

Calif., Placerville—June 7, by E. Mahler, city clk., 2,250 ft. 4 in. bell and spigot joint de Lavaud centrifugal c.i. pipe, random lengths, 270 ft. 2 in. threaded and coupled standard black wrought iron pipe, random lengths, four 4 in. bell and spigot joint de Lavaud centrifugal c.i. ⅛th bends, etc.

Bids Received

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, May 11, mains in Ditmars and 60th Aves., Edison, Indiana, Olmstead and Tesla Pls., etc., here, from Wataga Contg. Co., 308 Lenox Ave., $7,110. Noted May 6.

Md., Baltimore — Bd. Awards, May 12, mains and excavating trenches in York Rd. for Bureau Water Supply, from M. and J. B. McHugh, 3414 Springdale Ave., $23,768. Noted May 13.

O., Cincinnati — Comrs. Hamilton Co., 10,903 ft. 6 in. c.i. mains, etc., in Water Supply Line 20, Dist. 3 (Griffin, Beechwood and Edgemont subdivision), from Metzel & O'Hearn, 1601 Madison Ave., Covington, Ky., $23,246, engrs. est. $27,605; also Sanitary Sewer 16, Dist. 1, 10,041 ft. 6- to 10-in. vitr. clay pipe, from Murdock Constr. Co., 4701 Main Ave., Norwood, $28,815, engrs. est. $31,644. Noted Apr. 15.

O., Cleveland—Bd. Comrs. Cuyahoga Co., 9,700 ft. 8- to 12-in. c.i. mains in Impvt. 451, from A. Marra Co., Engineers Bldg., $51,101.

Contracts Awarded

Mass., Falmouth—Water Comrs., 30,014 ft. 4- to 12-in. pipe and fittings, to U. S. Cast Iron Pipe & Fdry. Co., Burlington, N. J.; valves and hydrants, to Eddy Valve Co., Waterford, N. Y. Noted May 13.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains, etc., in Polk and 54th Aves., Orville, Pansy Sts., etc., here, to Grippo Contg. Co., 85 Webster Ave., $5,685. Noted Apr. 29.

N. J., Union Beach (br. Keyport)—Water Com. Boro Council, A. Cowling clk. Union Fire Co., Union Ave., approximately 16 mi. 4- to 12-in. pipe line, to W. G. Fritz, 258 Valley Rd., West Orange, $162,000. Noted Apr. 29.

Pa., Duquesne—Rein.-con. reservoir, 145 ft. diam., 18 ft. high, to Williamson Constr. Co., Turtle Creek. Engrs. est. $100,000. Noted May 13.

La., Agurs—For 23,350 ft. 6 and 8 in. c.i. and 10,200 ft. 2½ in. wrought iron pipe, to Janes Contg. Co., Southwest Life Bldg., Dallas, Tex., $34,133. Noted Apr. 29.

Ill., Evergreen—Village Clerk, c.i. mains in various streets, to R. S. Spalding, 608 South Dearborn St., Chicago, $164,870. Noted Apr. 29.

Wis., Kenosha—C. M. Osborn, city mgr., two 36 in. hydraulic valves, to Michigan Valve Co., 3631 Parkinson St., Detroit, Mich., $1,332; c.i. pipe and specials at filtration plant, to Lynchburg Fdry. Co., 122 South Michigan Ave., Chicago, Ill., $4,083; city to lay same, by day labor. Noted Apr. 22.

Minn., Jordan—See "Sewers."

Que., St. Lambert—Filter equipment, to F. Hankin & Co., Ltd., 20 St. Nicholas Ave., Montreal, $16,795. Noted Apr. 1.

Sewers

Proposed Work

W. Va., Charlestown—City Council soon takes bids storm and sanitary sewers in various streets. $70,000. J. P. Blundon, Keyser, engr. Noted Mar. 18.

W. Va., Huntington — Plans 59,815 ft. sanitary and 27,280 ft. storm sewers, in Robey Hollow Drainage Area. $300,000. Barstow & McCurdy, Ohio Bldg., Akron, O., engrs. Noted Feb. 11.

W. Va., Parkersburg — Making surveys sewers in City Park Section. $100,000. J. V. Dunbar, Parkersburg, engr.

Ga., Waycross — Election soon $100,000 bonds, sewerage system. Engineer not selected.

Miss., Meridian — Making preliminary plans extending present outfall sewer from outlet at Sowashee Creek, etc. $100,000. J. C. Watts, City Hall, engr.

O., Marion—Bd. Control soon takes bids 25,000 ft. sanitary trunk sewer in East Church, Jefferson and Kenton Aves. $200,000. W. Cathers, Marion, engr.

Mich., Wyandotte — Making plans concrete and brick main sewers and vitr. or concrete lateral sewers in various streets. $1,300,000. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Ill., Mundelein—Takes bids about June 1, tile sewers and sewage treatment plant, $140,000; and sanitary sewers in various streets, $150,000. Kelker, DeLeuw & Co., 111 West Washington St., Chicago, engrs.

Wis., Janesville—H. Traxler, city mgr., making plans 20,387 ft. 12- to 48-in. vitr. or concrete storm sewers in 22 streets; and 8 in. vitr. or concrete sanitary sewers in 8 streets. To exceed $25,000. C. V. Kerch, City Hall, engr.

Mo., St. Louis—See "Unclassified."

Mo., St. Louis—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Ark., Jonesboro — Making preliminary plans storm sewer to drain districts north and west of here and connecting with Big Creek Ditch. $200,000. Cobb & Lee, Jonesboro, engrs.

Tex., Panhandle—Making plans sewers in various streets. $150,000. F. E. Devlin Eng. Co., Bitting Bldg., Wichita, Kan., engrs.

Calif., Lodi—Plans to purchase 1,920 lin. ft. 8 in., and 250 lin.ft. 6 in. single strength SGV pipe. J. F. Blakely, city clk.

Calif., Orange—See "Waterworks."

Calif., Santa Monica—Made plans pumping station for outfall sewer, consisting two 4,000 g.p.m. centrifugal pumps, motor driven, etc. $35,000 or more. H. B. Carter, city engr.

Ont., Niagara Falls — Stamford Twp. plans trunk and lateral sewers South End. $140,000. M. F. Ker, Niagara Falls, engr.

Ont., Riverside—Plans 10,000 ft. 8 in., etc., vitr. tile sanitary sewers in various streets. $51,000. A. Smith, Riverside, engr.

Ont., Sudbury—Council plans sewer extensions in North Eastern Dist. $40,000. W. J. Ross, City Hall, engr.

Ont., Toronto — East York Twp. plans 1,030 ft. 12 and 15 in. vitr. tile sewer in Coleridge Ave., $12,240, 2,490 ft. 12- to 18-in. in Virginia Ave., and 190 ft. 18 in. in Gledhill Ave., $33,794. G. R. Jack, 443 Sammon Ave., engr.

Ont., Toronto—York Twp. plans 5,000 ft. 8 in., etc., vitr. tile service sewers in Atlas, Avon, Lorraine and Northland Aves. $26,423. F. B. Goedike, 40 Jarvis St., engr.

Ont., Toronto — York Twp. soon takes bids 4,130 ft. 8 in., etc., lateral service sewers in Bicknell Ave., Juliet Crescent and Gilpin Ave. $43,045. F. B. Goedike, 40 Jarvis St., engr.

Bids Desired

Mass., West Roxbury (Boston P. O.)—May 25, by Dept. Pub. Wks., Boston, sewerage works in Ashland St. and Outlook Rd., here. $25,000. J. H. Sullivan, comr.

N. Y., Brooklyn — May 26, by J. A. Guider, pres. Brooklyn Boro, Boro Hall, storm sewers in Avenue R; storm and sanitary sewers in Ocean Parkway; storm sewers in East 7th, East 8th and East 9th Sts.; sanitary sewers in East 8th, 9th and 17th Sts.; sewers in 12th Ave., Linwood, 64th and 72nd Sts.

N. Y., Lyndonville — June 8, by Bd. Village Trustees, sewerage system and disposal works. C. C. Hopkins, 349 Cutler Bldg., Rochester, engr.; adv. E. N.-R. May 20.

Pa., Phila.—May 26, by Dept. Pub. Wks., Bureau of Engineering, Schedule A, branch sewers in 74th Ave. N., Limekiln Pike, Bensalem and Gowan Aves., Beldon, Shisler, Courtland, Tudor, National, Yocum and St. Vincent Sts. G. H. Biles, dir.

D. C., Wash.—May 24, by Dist. Comrs., District Bldg., 20,970 lin.ft. 10 to 9 ft. diam. sewer.

La., Lake Charles — See "Streets and Roads."

O., Cleveland—May 26, by Comrs. Cuyahoga Co., sewer in Parker Dr., Impvt. 314. To exceed $25,000. F. Williams, Court House, engr.

O., Cleveland Heights (Warrensville P. O.)—May 24, by City, sewers and watermains in Middleton Rd. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engr.

Ill., Niles Center—May 25, by Village, 10- to 33-in. vitr. tile sewers, etc. in various streets. $220,000. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs.

Mich., Detroit — June 2, by Dept. Pub. Wks., Ashland Ave. Sewer Sects. 3, 4 and 5 Seven Mile Rd. Arm Sect. 5, Ashland Ave. Sewer Bedford Rd. Sewer Sect. 4 Schoenherr Rd. Arm Ashland Ave. Sewer, all brick and concrete cylinder in tunnel or open cut. J. W. Reid, comr.; adv. E. N.-R. May 20.

Wis., Milwaukee — May 27, by J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., sewage booster station, Fairmount Ave. $20,000.

N. D., Crosby — June 7, by City Clerk, 15,482 ft. 8- to 12-in. vitr. tile sewers etc. in Sewer Impvt. Dist. 2. $30,000. Dakota Eng. & Constr. Co., Valley City, engrs.

Kan., Onago — May 25, by City Clerk, sanitary sewers and disposal plant. $40,000. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, Mo., engrs. Noted May 13.

Kan., Watkins—May 28, by City Clerk, sanitary sewers and sewage disposal

Strength-
to Withstand Unusual Loads

INDEPENDENT Reinforced Concrete Sewer Pipe have ample strength to withstand unusual load conditions—plus a permanency that defies all the ordinary causes of deterioration. This strength and durability are derived from:

1. DESIGN. Wall thickness and steel reinforcement are designed to give sufficient strength to meet every service demand.

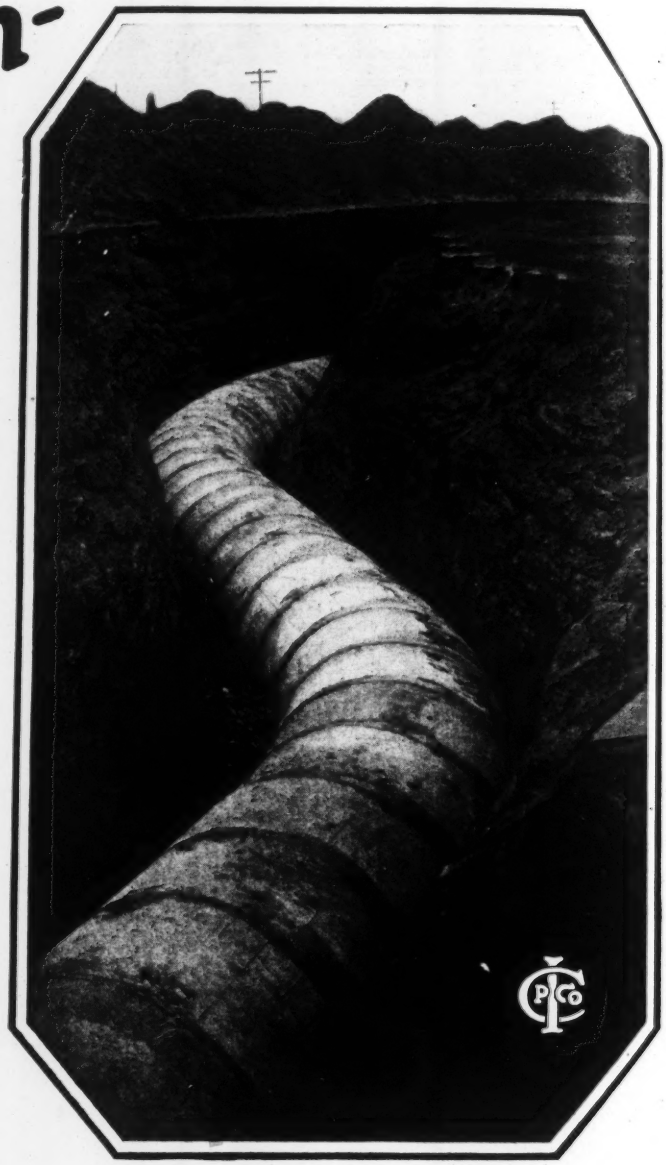
2. FORMS. These are of steel, accurately shaped, and constructed to eliminate distortion and leakage while forms are being filled.

3. MATERIALS. Careful selection and constant inspection of all cement, sand, pebbles or crushed rock to insure the use of none but highest grade materials.

4. MIXING and PLACING. All concrete used is batch-mixed to a uniform color and proper consistency, and promptly placed in the forms, being well spaded to assure maximum density and thorough bonding with reinforcing metal.

5. CURING. Forms are not removed until concrete has attained sufficient strength to prevent injury. New pipe are kept wet to assure proper curing. All pipe are thoroughly cured before being used

Before you bid on, or let, your next sewer work, get in touch with us. We can show you some interesting advantages and economies in using INDEPENDENT Concrete Pipe.



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INDEPENDENT CONCRETE PIPE CO.
202 North West St. Indianapolis, Ind.

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Reinforced Concrete Pipe

Sewers (Continued)

plant. $43,000. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, Mo., engrs.

Calif., Los Angeles — June 1, by Bd. Supervs. Los Angeles Co., 55,669 ft. 8- to 15-in. vitr. clay sewer in Alfred, Almant Sts., etc., in Sherman. $157,415.

Bids Received

Mass., Boston—Sewerage works in Stony Brook, Sect. 10, Rosindale Branch, from J. J. Coughlin & Sons, Inc., 27 School St., $106,003.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, May 12, from R. Ivino, 678 Glenmore Ave., sewer in Junius St. $552, Elmore Pl. $294, Varick St. $309, and 9th St. $246; from Manmill Constr. Co., 2035 Douglas St., in Avenue M $268, New Lots Ave. $229 and Colonial Rd. $277; from S. Guerriero, Avenue L $3,244; and from A. W. Matarazzo, 1163 61st St., Avenue L $1,746. Noted May 6.

N. Y., New York — See "Streets and Roads."

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, May 12, main sewers in Green Lane, from Mazzola & Marano, 739 South 7th St., $39,935; Parker Ave., from J. and R. Lombardi, Lincoln Bldg., $247,-418; Crawford and Langdon Sts., from A. Jaffalo & L. Mark, 139 South 50th St., $102,596 and $134,387 respectively.

O., Cleveland—Bd. Comrs. Cuyahoga Co., May 5, 3,800 ft. 8- to 48-in. sewer in Lander Rd., Impvt. 310, from Salem & George, Erie Bldg., segmental block $34,148 brick $35,-182 and rein.-con. $32,302.

Minn., St. Paul — A. E. Eggert, city purch. agt., May 11, Trout Brook Sewer, Contr. A, from Northern States Contg. Co., 312 Endicott Bldg., $473,700; and Highland Park Sewerage System, from O'Neil & Preston, 608 Exchange Bank Bldg., $142,-000. Noted May 6.

Contracts Awarded

Conn., South Norwalk—For 18 in. waste pipe line, to Fisher & Crowley, Bristol. Engrs. est. $90,000.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to A. Musumeci, 277 East 146th St., sewers in Needham Ave. $2,073, Hering Ave. $4,437, and Mulford Ave. $6,292; to F. Spadaro, 2913 Creston Ave., Underhill Ave. $4,001, and East 177th St. $18,981; to J. V. Timoney Constr., 320 East 201st St., Morris Ave., $15,336; and P. Tedesco, Westchester Ave., Laconia Ave., $3,530. Grand total $55,650. This corrects report in May 13 issue under "Streets and Roads."

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, branch sewers in Almond St., to A. Mattia, 310 North 65th St. $20,866; Bingham St., to A. DiSandro & Son, 3906 North 5th St. $51,667; Edgemont and Salmon Sts., to J. Moss, 1652 Wakeling St., $1,246 and $1,096 respectively; Glenlock and Tyson Sts., to J. Hastie, 5720 Virginia Rd., $5,039 and $19,401 respectively; Homer St., to J. J. McHugh, 1617 Race St., $10,-304; Jackson and Marsden Sts., to A. Casciato, 1602 Wharton St., $5,341 and $6,209 respectively; N St., to Perma Eng. Co., 362 North 65th St., $18,159; Philellena St., to A. Frunzi, 513 High St., $13,278; and Large St., to P. and E. J. Ellis, 4th and Wyoming Sts., $12,770. Grand total $201,473. Noted Apr. 15.

O., Cincinnati—See "Waterworks."

O., Cleveland — Intercepting sewer at southerly sewage treatment works, to Graham & Henderson, 212 Engineers Bldg., $220,695.

Mich., Detroit—For 460 ft. 15- to 18-in. vitr. crock sewers, etc. in Lateral 4537, to A. Rossi, 5307 Pennsylvania Ave., $1,489; 1,310 ft. 18- to 24-in. in Lateral 4568, to Montg. & Eng. Co., Transportation Bldg., $10,467; 709 ft. 12- to 18-in. in Lateral 4586, to Central Contg. & Eng. Co., 17576 Wyoming Ave., $4,275; 2,027 ft. 12- to 20-in. in Lateral 4587, to W. Blanck Co., 40 Seven Mile Rd. E, $6,435; 2,916 ft. 12- to 24-in. in Lateral 4588, to Cadillac Constr. Co., Transportation Bldg., $13,900; and 3,936 ft. 12- to 24-in. in Lateral 4589, to Detroit Drainage Constr. Co., Meyers Ave., $13,668. Grand total $50,234.

Mich., Ecorse (Detroit P. O.)—For 5,000 ft. 20 in. to 2 ft. 8 in. x 4 ft. brick, concrete and tile sewer in High St., to T. D. Nolan, Plymouth Rd. and Pere Marquette Hy. tracks, Detroit, $51,000. Noted May 6.

Mich., Lincoln Park (mail Detroit)—To J. A. Mercier, 616 Hammond Bldg., Detroit, Le Blanc Drain in Twps. of Ecorse, Taylor, and city of Lincoln Park, Sect. A, 11,680 ft. $721,150, Sect. B $4,706 ft. $213,-370, Sect. C $4,233 ft. $234,724, Sect. D 3,477 ft. 63,386, Sect. E 5,828 ft. 106,804, and Sect. F 1,656 ft. $27,096, all foregoing monolithic rein.-con., 844 ft. Sect. G $12,960, Sect. H 878 ft. $11,892, 2,915 ft. Sect. I $52,013, Sect. J 274 ft. $5,032, Sect. K 1,380 ft. $19,820, Sect. L 2,838 ft. $57,660, Sect. M 1,655 ft. $30,190, all rein.-con., also inlet 6,100, and 120 catchbasins $17,760. Grand total $1,579,967. Noted Mar. 25.

Mich., Pontiac—Northwest Trunk Sanitary Sewer, 1,063 ft. 36 in. concrete and brick pipe, to E. M. Gillet, 673 25th St., Milwaukee, Wis., $40,775. Noted Apr. 22.

Mich., Royal Oak (br. Detroit)—Linwood Realty Co., 12,000 lin.ft. 12- to 18-in. vitr. clay sewers in Twelve Mile Rd. and Campbell Ave., Red Run Golf sub-division, to Pontiac Drainage Co., Pontiac. Engrs. est. $60,000. Noted Apr. 29.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, tile sewers, etc., in Philips Ave. from East 89th to East 9th Sts., Clyde and Yates Aves. from East 89th to East 90th Sts., to C. Roberts, 6921 Laflin St.; Clyde Ave. from East 86th to East 90th Sts., Chapel Ave. from East 85th to East 90th St., Paxton, Luella and Crandon Aves. from East 87th to East 90th Sts., East 86th St. from Chapel to Merril Aves., East 87th St. from Jeffery to Chapel Aves., and East 88th St. from point 110 ft. to Crandon Ave., to L. Scully, 4451 Nevada St., West 68th St. from South Crawford to South Keeler Aves., South Komensky Ave. from West 68th to West 70th Sts., South Karlow Ave. from West 68th to West 70th Sts., South Kedvale Ave. from West 68th to West 69th Sts., and South Keeler Ave. from West 68th to West 69th Sts., to A. Scully, 5467 Komerlin St.; alley from East 92nd St. to Yates Ave., Barry Ave. from point 231 ft. to North Natoma Ave., West 113th Pl. from Laflin St. to South Ashland Ave., Lington Ave. from point 231 ft. to North Natoma Ave., West 99th St. from Lafayette to Wentworth Aves., West 105th St. from South Tahlman Ave. to South Rockwell Sts., Sunnyside Ave. from North Long to North Lockwood Aves., Loomis St. from West 108th to West 109th Sts., West 106th St. from Drew to Wood Sts., to M. Di Vito; North Menard Ave. from Belmont to Wellington Aves., to D. Cuzzone, 711 Farquer St.; North Mozart St. from Addison St. to Waveland Ave., Grace St. from North Branch Chicago River to North California Ave. and North California Ave. from Irving Park Blvd. to Addison St., to Fosco Bros.; North Newcastle Ave. from Nieman to Albion Aves., Imlay St. and Hayes Ave. from North New Castle to Newark Aves., and Newark Ave. from Hayes Ave. to north city limits, to A. Banieri; South Claremont Ave. from West 62nd to West 63rd Sts., South Oak Alley from West 62nd to West 63rd Sts., South Oakley Ave. from West 113th to West 116th Pls., and West 115th St. from South Irving to South Western Aves., to M. Murphy, 5854 South Michigan Ave.; South Green St. from West 102nd to West 103rd Sts., and Kentucky Ave. from Elston to North Kilbourne Aves., to Mancini & Ventrella; North Marmora Ave. from Wellington to Belmont Aves., Myrtle Ave. from Oriole to North Harlem Aves., North Major, North Park Side, Mango and North Menard Aves. from Diversey to Schubert Aves., to F. Peyrot, 4207 Marmora Ave.; Perry Ave. from West 99th to West 100th Sts. and South Wood St. from West 79th to West 83rd Sts., to A. Santucci, 1523 North Long Ave.; Foster Ave. from Milwaukee to Elston Aves., North Long Ave. from Foster to Lieb Aves., Lind Ave. and Liano Ave. from Lieb to Rogers Aves., North Lockwood Ave. from Foster to Rogers Aves., Lieb Ave. from Long to Elston Aves. and North Latrobe Ave. from Foster to Rogers Aves., to J. Tiritilli, 732 South Ashland Ave.; South Ashland Ave. from West 110th to West 112th Sts., and Eggleston Ave. from West 107th to West 109th Sts., to Walsh & Metzger, 6828 South Chicago Ave.; South Claremont Ave. from West 62nd to West 63rd Sts., Kentucky Ave. from Elston to North Kilbourn Aves., North Kotner Ave. from Bryn Mawr to Rogers Aves., West 64th Pl. from South Menard to South Central Aves., South Oakley Ave. from West 113th to West 114th Sts. and West 115th St. from Irving to South Western Aves., to J. J. Renn, 6649 North Ashland Ave.; South Wood St. from West 79th to West 83rd Sts., to D. Hardin; North Major, North Parkside, Mango and Menard Aves. from Diversey to Schubert Aves., North Kenneth, North Kilbourn and Wellington Aves. from Diversey to Belmont Aves., to Washington Plumbing & Heating Co., 461 North Halsted St. Noted Apr. 22.

Ill., Chicago — Bd. Trustees North Side Sewage Treatment Wks., Div. Q, 910 South Michigan Ave., main building and grit chamber superstructure and building structures north of Howard St. and west of Chicago & Northwestern R.R. tracks at Niles Center, to J. Griffith & Son Co., 112 West Adams St. $1,538,422. Noted Apr. 29.

Ill., Chicago — H. E. Wallace, clk. Sanitary Dist. of Chicago, Broadview-Bellwood Intercepting Sewer, concrete, in Roosevelt Rd. from Des Plains River to Pusheck Rd. and in Pusheck Rd. from Roosevelt Rd. to Harrison St., to Dowdle Bros., Chicago, approximately $428,000. Noted Apr. 29.

Wis., Antigo—G. C. Palmiter, city clk., 20 x 35 ft. concrete and steel sewage disposal plant, to Manitowoc Constr. Co., Manitowoc, $53,007. Engrs. est. $50,000. Noted May 6.

Ia., Oelwein—Sewage disposal plant, to J. A. Dunkel Constr. Co., Webster City, $66,380. Noted Apr. 22.

Minn., Jordan — J. C. Busch, city clk., sewerage and water systems, to Dearborn Constr. Co., 180 West 1st St., Waterloo, Ia., $44,000. Noted Apr. 22.

Minn., St. Paul—A. E. Eggert, city purch. agt., 4,000 ft. 12- to 42-in. sewer, etc., in Summit Ave. between Creton-Dewey Aves., to O'Neil & Preston, 608 Exch. Bank Bldg., $37,000. Noted Apr. 29.

Wash., Seattle—Bd. Pub. Wks., sewers in 43rd Ave. South, et al., to McHugh & Coluccio, 517 3rd Ave. N., $42,270. Engrs. est. $44,389. Noted May 13.

Calif., Los Angeles—Sewers in Beverly Blvd. between Highland and La Brea Aves., and Spaulding Ave. between Willoughby and Melrose Aves., to L. Miletich, 610 West 54th St., $53,726 and $22,573 respectively; Milton Ave. between Melrose Ave. and 3rd St., to M. N. Guho, 5316 8th Ave., $73,325; also Arlington Ave. between Rodeo Rd. and Vernon Ave., to J. M. Housley, 1928 Claudina Ave., $28,515. Grand total $178,139.

Calif., Redwood City—Bay Shore Sanitary Dist., sewers in Rio Verde, Acacia Sts., etc., to W. J. Tobin, 527 Santa Ray Ave., Oakland, $28,975.

Calif., Victorville — Victorville Sanitary Dist., 14,734 ft. 8- to 14-in. lateral sewers in various streets, to F. W. Secombe, San Bernardino, $26,900. Noted Apr. 22.

Ont., Walkerville — See "Streets and Roads."

B. C., Point Grey—For 1½ mi. 8- to 21-in. sewer in Alma Rd. from 5th to 16th Aves., to H. G. Cutt, R.R. 1, Eburne, $27,517.

Waste Disposal

Bids Desired

N. Y., New Dorp (Sta. Staten Island)—May 25, by J. A. Lynch, pres. Richmond Boro, Boro Hall, building, and runway, furnaces, chimney, etc., for garbage incinerator, here. Noted Oct. 29.

N. J., Highlands—May 24, by Mayor and Boro Council, Boro Hall, 2 unit, 30 ton capacity, incinerator plant. U. G. Johnson, boro clk.; adv. E. N.-R. May 20.

Bridges

Proposed Work

Mass., Barnstable — Commonwealth of Massachusetts, Dept. Pub. Wks., Boston, plans new, probably concrete and steel, bridge over Centerville River, here. $25,-000. W. F. Williams, comr.

Miss., Merrill — George County Bridge Co., c/o J. C. Dorsett, Lucedale, making preliminary plans rein.-con., steel and piling toll bridge over Pascagoula River. $40,000.

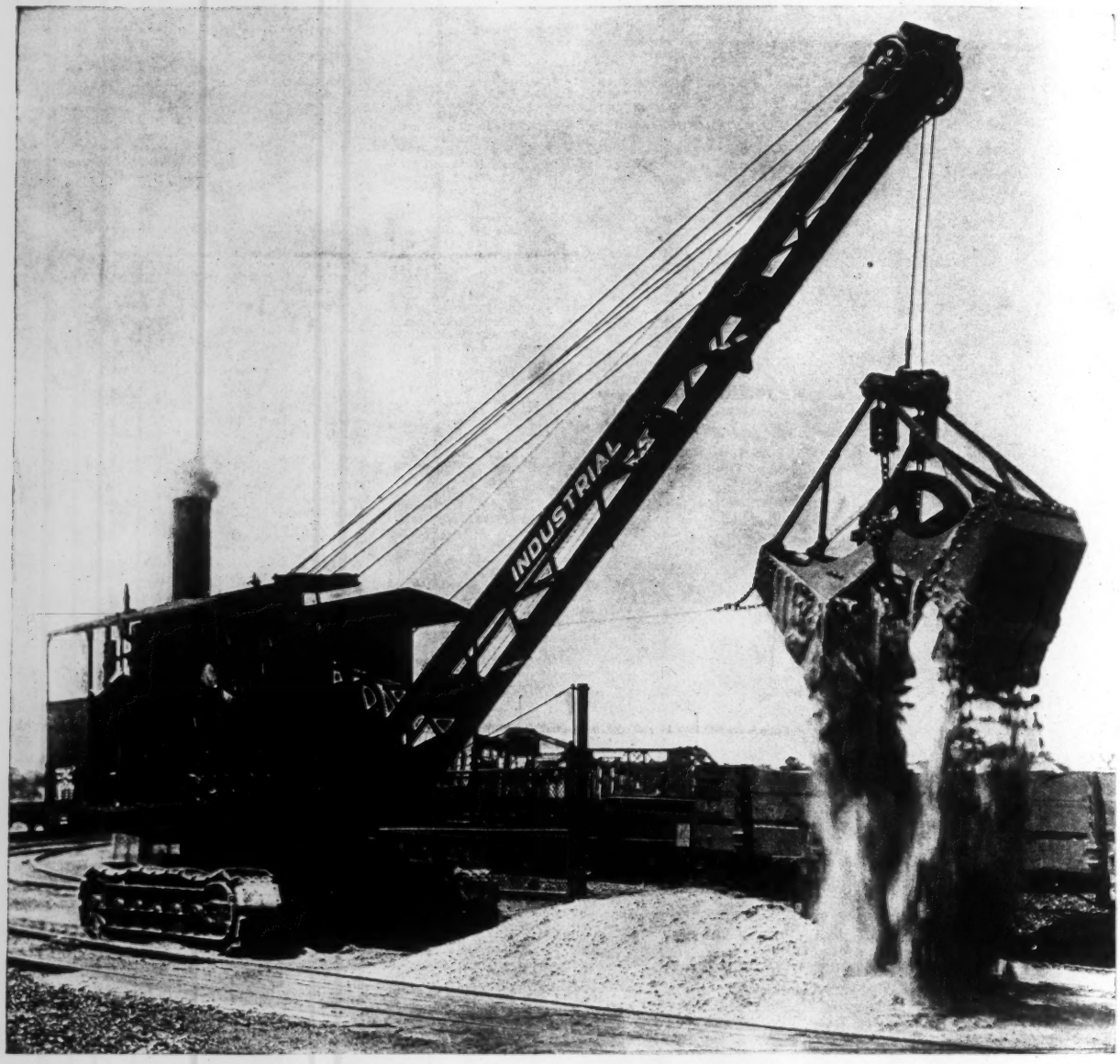
Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about June 11, ninety-one 17 ft. span treated timber and one 60 ft. span steel truss bridge over Obion River, Obion Co. To exceed $25,000. C. N. Bass, highway comr.

Tenn., Elizabethton—Making plans concrete bridge over Doe River, on Elk Ave. $40,000. McCrary Eng. Co, Citizens Southern Bldg., Atlanta, Ga., engrs. Noted May 13.

Tenn., Gainesboro—State Dept. Highways & Pub. Wks., Nashville, takes bids about June 11, steel span bridge on timber approaches over Cumberland River, near here, Jackson Co. $200,000. C. N. Bass, highway comr.

Ky., Spottsville—Louisville, Henderson & St. Louis R.R. Co., Louisville, W. S. Moore, ch. engr., making plans replacing steel draw span bridge over Green River with new design for superstructure, and raising present piers and abutments, etc. $50,000.

Mo., Kansas City—Kansas City Terminal Ry. Co., J. V. Hanna, ch. engr., Union Sta., making preliminary plans rein.-con. and steel viaduct over railroad tracks, on Oak St. $350,000.



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Other products: Locomotive cranes, 5 to 200 tons capacity, freight cranes, pile drivers, clamshell buckets.

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Bridges (Continued)

Mo., Louisiana—Local Syndicate, c/o C. G. Buffum Lumber Co., plans rein.-con. and steel bridge over Mississippi River.

Mo., St. Louis—City, c/o Bd. Pub. Serv., making preliminary plans 3 rein.-con. bridges over River Des Peres, 1 on Mackland Ave., 1 on Sublette Ave. and other on Sulphur Ave. $50,000. L. R. Bowen, 301 City Hall, engr.

Tex., Barstow—See "Streets and Roads."

Tex., Carthage—Panola Co. making plans four 18 ft. concrete deck girder, and one 22 ft. concrete deck girder spans, also six 29 ft. rein.-con. bents across Gulf, Colorado & Santa Fe R.R. tracks, on Highway 8. $26,000. D. E. Martin, Carthage, co. engr.

Tex., Cold Springs — See "Streets and Roads."

Tex., San Antonio—Making plans 70 ft. rein.-con. and steel bridge, 25 ft. over San Antonio River, at Villita St. $30,000. I. Ewig, city engr.

Tex., Sanderson — See "Streets and Roads."

Okla., Chandler—State Hy. Dept., Oklahoma City, making plans 98 ft. rein.-con. viaduct over Frisco R.R. Tracks, Lincoln Co., here. $50,000. J. M. Page, highway engr.

Okla., Lima—State Hy. Dept., Oklahoma City, made preliminary plans steel truss bridge on concrete piers over Wewoka Creek, on State Road 3, here, Seminole Co. $25,000. J. M. Page, highway engr.

Calif., Sunol — Alameda Co. (Oakland) making plans steel and concrete bridge over Arroyo de Valle Creek near, here. To exceed $25,000. G. A. Posey, Oakland, co. surv.

Que., Gracefield — Dept. Pub. Wks., Quebec, soon takes bids concrete and steel bridge over Gatineau River, here. $35,000. L. E. Vallee, 67 St. Cyrille St., Quebec, engr.

Bids Desired

Massachusetts — June 1, by Dept. Pub. Wks., Boston, four 1 span 3,867 ft. concrete and bituminous macadam bridges and approaches in Westminster and Winchendon. $25,000 or more. W. F. Williams, comr.

Mass., Cambridge (Boston P. O.)—Harvard University taking bids brick and steel, etc., memorial foot bridge over Charles River connecting Harvard University and Harvard Business School (Brighton), $200,000. McKim, Meade & White, 101 Park Ave., New York City, archts. J. R. Rablin, Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, engr. Noted Mar. 25.

Pennsylvania—May 21, by Montgomery Smith, purch. agt. Pennsylvania R.R. Co., 17th and Filbert Sts., Phila., 4 span bridge, Plan 80281; steel super-structure complete for crane runway, Plan 28846; 1 turntable super-structure, Plan 17420; 5 signal cantilevers, 2 track, Plan 17110; structural details for bridges, Plan 6363; also seven 4 track and three 5 track signal bridges, Plan 17100.

Pennsylvania—May 27, by Montgomery Smith, purch. agt. Pennsylvania R.R. Co., 17th and Filbert Sts., Phila., superstructure of bridge complete, Plan 8275; twenty 4 track signal bridges, Plan 17100; steel work for 15 span second track, Plan 10220; steel reinforcing, Plan 80295; metal work and rivets, Plan 80271.

West Virginia—See "Streets and Roads."

Wisconsin—See "Streets and Roads."

Wis., Milwaukee—May 22, by Park Bd., F. Schumaker, secy., concrete, stone work, carpentry and tile work, etc. for Mason St. Bridge. $400,000. Clas, Shepherd & Clas, 445 Milwaukee St., engrs.

Missouri—May 28, by State Hy. Dept., Jefferson City, two 5 ft., two 8 ft., four 12 ft., two 14 ft., and two 16 ft. rein.-con. slab, also one 35 ft. and one 40 ft. rein.-con. deck girder spans in Cape Girardeau Co.; two 8 ft. rein.-con. slab, four 30 ft., and one 45 ft. rein.-con. deck girder, also 140 ft. steel truss spans in Jefferson Co.; one 60 ft. steel truss span, etc., St. Francois Co.; and repairing River D. D. Bridge, Buchanan Co. B. H. Piepmeier, ch. engr.

Texas—See "Streets and Roads."

Tex., Groveton—See "Streets and Roads."

Idaho, Coeur d'Alene—May 27, by Comrs. Pub. Wks., at Idaho Hotel, 128 ft. steel span and 575 ft. pile trestle over Spokane River, on Federal Aid Project 101-A, Kootenai Co. P. E. Oxley, Lewiston, dist. engr.

Bids Received

Maine — State Hy. Dept., Augusta, May 12, substructure steel truss double deck highway bridge over Kennebec River in Bath and Woolwich, from Foundation Co., 120 Liberty St., New York City, $983,940; superstructure, from McClintic-Marshall Co., 68 Devonshire St., Boston, Mass., $1,465,000. Noted Apr. 29.

New Hampshire — See "Streets and Roads."

North Carolina — State Hy. Comn., Raleigh, May 4, rein.-con. bridges, etc. on Project 669, Rowan Co., and Project 637, Iredell Co., from J. L. Brinkley, Thomasville, $39,415 and $52,679 respectively; on Project 398, Robeson Co., from Kiker & Yount, Reidsville, $41,348; on Project 303, Bladen Co., from J. S. Bowers, Whiteville, $30,113; Project 165, Northampton Co., from W. D. Dean, Commercial Bank Bldg., Raleigh, $31,651. Noted Apr. 29.

Louisiana — State Hy. Dept., Baton Rouge, constructing French Fork Bridge, on Jena-Jonesville Highway, Federal Aid Project 166-C, Catahoula Parish, from Meyer & Greenwald, Monroe, $45,210, and Intracoastal Canal Bridge on Houma-Montegut Highway, State Project 532-A, Terrebonne Parish, from Austin Bridge Co., Baton Rouge, graveling State Project 521, New Roads-St. Francisville Highway, Point Coupee Parish, and Burnside-Whitehall Highway, State Project 536-A, St. James Parish, from Young & DeBriton, Zachary, $10,652 and $5,000 respectively. Noted Apr. 15 and 22.

Indiana—J. D. Williams, dir. State Hy. Comn., Indianapolis, May 12, **(e. e. means engineers estimate)**, from W. H. Grammer & Son, Evansville, bridges over Chicago & Eastern Illinois R.R. tracks, F. A. 6-C-25, Putnam Co., $29,549 e. e. $36,494, Bull Creek, F. A. 98-A-2, $6,635 e. e. $6,833, and Magenica Creek, F. A. 101-B-2, Little Magenica Creek, F. A. 101-B-3 and F. A. 101-B-29, $21,206 e. e. $24,670, all foregoing in Huntington Co., from W. H. Shons, Freeport, Flat Rock Creek, F. A. 81-A-1, Bartholomew Co., $60,442 e. e. $70,638, bridge over Blue River, F. A. 81-B-1, Johnson Co., $60,609 e. e. $67,143; from Hamilton & Lancaster, Greencastle, bridge over Pennsylvania R.R. tracks, F. A. 6-B-16, Clay Co., $11,859 e. e. $13,207; from Ryan & Ryan, Washington, bridge over Chicago & Rock Island R.R. tracks, F. A. 78-D-1, Knox Co., $27,937 e. e. $31,333; from G. T. Miller Constr. Co., Lebanon, bridge over Mill Creek, F. A. 85-D-1, Fulton Co., $16,150 e. e. $17,257; from W. Marshall & Co., Lafayette, bridge over Mud Creek, F. A. 94-B-1 and Coal Creek, F. A. 94-B-2, Fountain Co., $35,652 e. e. $43,326; from McGreevey Bros., Logansport, bridge over Tippecanoe River, S-27-D-474 and Lones Ditch, S-27-D-476, Kosciusko Co., $17,933 e. e. $18,784; from H. V. Hay, Boonville, bridge over Drainage Ditch, S-28-A-462 and Lick Creek, S-28-B-436, Pike Co., $7,499 e. e. $10,083; from Vincennes Bridge Co., Vincennes, bridge over Fleenor Ditch, S-28-D-427, and Hannas Branch, S-28-D-429, Daviess Co., $11,140 e. e. $12,885; from Clements & Veal, Williamsburg, bridge over branch, S-31-E-265, Putnam Co., $3,237 e. e. $4,069; from Elkhart Bridge & Iron Co., Elkhart, bridge over Flat Rock Creek, F. A. 81-A-1, Bartholomew Co., and Blue River, F. A. 81-B-1, Johnson Co., $115,433 e. e. $137,776; from Hay & Campbell, Boonville, bridge over Dredge Ditch, F. A. 78-B-1, and Viechs Dredge, F. A. 78-B-2, Knox Co., $11,660 e. e. $14,638. Noted May 6.

Mich., Detroit — Dept. Pub. Wks., City Hall, May 7, 70 ft. steel encased in concrete bridge on concrete abutments over Michigan Central Ry. tracks, at West Lafayette Ave., from W. H. Mueller, 2210 Park Ave., $57,106. Noted Apr. 29.

California—State Hy. Comn., Sacramento, rein.-con. bridges and culverts between San Ardo and Bradley, Monterey Co., from Granite Constr. Co., Watsonville, $74,882, engrs. est. $75,165; also timber bridges, Imperial Co., from H. M. Ledbetter, Arcada Station, Box 1760, Los Angeles, $17,771 alternate $17,354, engrs. est., $18,898 and $16,003.

Calif., Los Angeles—Constructing bridge over Los Angeles River across tracks of Atchison, Topeka & Santa Fe R.R. and Union Pacific Ry., from Lange & Bergstrom, Washington Bldg., $405,495.

Contracts Awarded

Rhode Island—Office State Bd. Pub. Rds., State House, Providence, State Bridge 143, to Curtis, Quillen & Co., 350 Westminster St., Providence, $3,500; Bridges 204 and 205, to F. F. McCarthy & Co., Newton, Mass., $6,737; Bridges 206 and 207, to Eng. Serv. & Constr. Co., 220 Devonshire St., Boston, Mass., $16,839; and Bridge 213, to Kelleher Bros. Turners Falls, Mass., $3,424. Grand total $30,500. Noted May 6.

N. J., Jamesburg — Middlesex Co. (New Brunswick), concrete bridge over Manalapan Creek, here, to Brann & Stuart, Commercial Trust Bldg., Phila., Pa., $29,848. Noted Sept. 24.

O., Dayton — Montgomery Co., Court House, substructure, 240 ft. span steel through truss highway bridge over Twin Creek, on State Road in German Twp., F. M. Hall, 55 Bank St., $27,500; superstructure to Brookville Bridge Co., Brookville, $42,284. Noted Apr. 15.

Fla., Tampa — City Comn., single leaf overhead counter weight type of of Strauss trunnion bascule bridge over Hillsborough River, at Fortune St., to United Gas Eng. Co., Phila., Pa., $401,343. Noted Feb. 25.

Ind., Indianapolis—Marion Co., constructing Bridge 816, two 25 ft. spans, 24 ft. wide, concrete girder, and repairing old Bridge 798, to H. L. Findley, Noblesville, $8,074 and $822 respectively; retaining wall Bridge 823, and repairing piers and abutments Bridge 824, to W. P. Rigdon, Danville, $3,295; Bridge 814, 30 ft. span concrete arch, and addition to abutments and piers Bridge 822 to 2 M. L. Oberholtzer, 58 South Chester St., Indianapolis, $18,390 and $1,560 respectively. Grand total $32,141. Noted Mar. 25.

Tex., Baird—See "Streets and Roads."

Oregon—State Hy. Dept., Salem, bridge over Snake River between Baker Co., Ore., and Adams Co., Idaho, to Portland Bridge Co., Yeon Bldg., Portland, $66,360; over Depoe Bay, to Lindstrom & Feigenson, Worcester Bldg., Portland, $54,917; and over Rocky Creek, to G. F. Reeves, 407 Columbia St., Portland, $47,515, both in Lincoln Co. Grand total $168,792.

Ontario — Dept. Pub. Hys., Ottawa, widening Carp Bridge, concrete substructure, Contr. 1313, to Ontario Bridge Co., Crown Office Bldg., Toronto; steel superstructure, Contr. 1315, to Dominion Bridge Co., Reford Bldg., Toronto. Engrs. est. $30,000.

Dams

Proposed Work

Mo., Springfield—Ozarks Hydro-Electric Co. making surveys and plans dam 70 ft. high on Crooked Creek, about 1 mile from Yelleville. O. C. Lavasseur, Springfield, engr.

Calif., Santa Barbara — See "Waterworks."

Bids Desired

N. J., Pompton Lakes — Twin Lakes Realty Co. taking bids 200 ft. concrete dam, 10 ft. high, address G. C. Howman, 202 Wanaque Ave.

Wis., Stevens Point — Wisconsin River Paper & Pulp Co., 201 West Wisconsin Ave., Neenah, taking bids replacing with concrete, approximately 800 ft. wooden dam, 22 ft. high over Wisconsin River, 3 mi. south of here. Orbison & Orbison, College Ave., Appleton, engrs.

Contracts Awarded

Wis., Trego—See "Buildings Industrial."

Railways

Proposed Work

Ohio—Cleveland Ry. Co., Hanna Bldg., plans relaying steel car tracks on Euclid Ave. from East 21st to 40th Sts., $119,385; Euclid Ave. from East 123rd to city limits, $25,228; Kinsman Rd. on C. & P. R.R. Bridge, $7,585; Lorain Ave. from West 73rd St. to car house, $120,335; Superior Ave. from west roadway to West 6th St., $39,709, and Woodland Ave. from East 9th to East 55th Sts., $203,900.

Illinois—St. Louis Connecting R.R. Co. (subsidiary of Pennsylvania R.R. Co., Broad St. Sta., Phila., Pa., A. C. Shand, ch. engr.) plans 9.2 mi. railroad in Madison Co. from point near Collinsville to point 2 mi. west of St. Jacob.

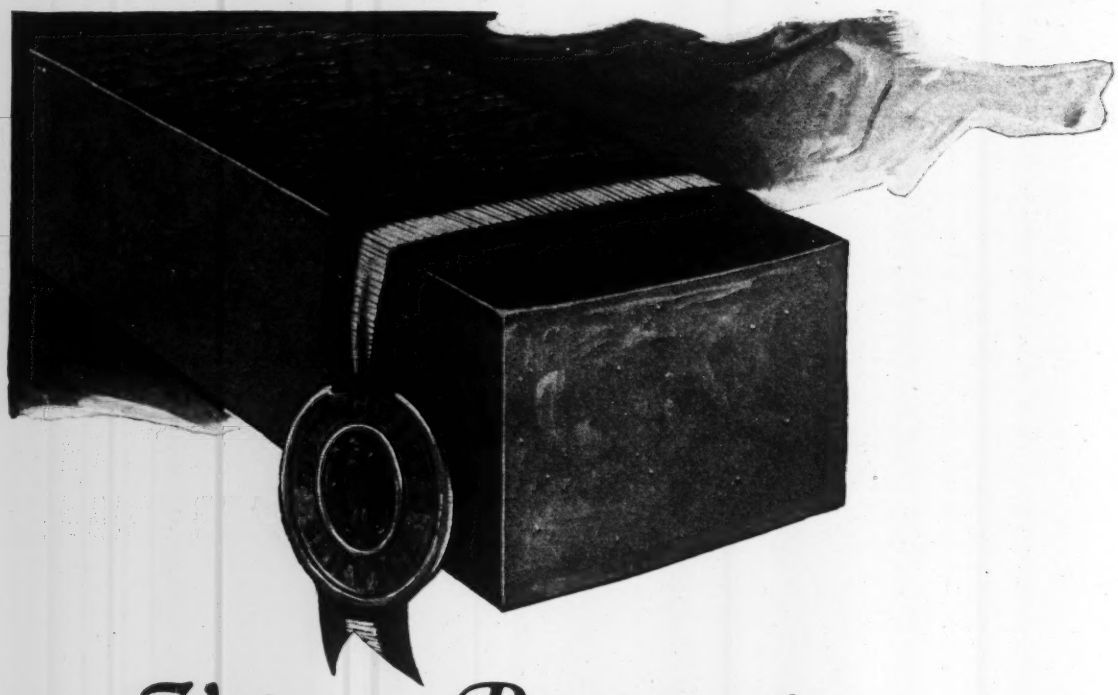
Minnesota—Minnesota Western Ry., E. D. Luce, vice-pres. and genl. mgr., 2823 6th Ave., Minneapolis, soon takes bids grading 15 to 20 mi. between Minneapolis and Lake Lillian. $25,000. E. L. Higgins, ch. engr.

Kansas and Texas—Chicago, Rock Island & Pacific R.R. Co., LaSalle St. Sta., Chicago, Ill., C. A. Morse, ch. engr., plans railroad from Liberal, Kan. to Amarillo, Tex.

Nebraska—Union Pacific R.R. Co., 1416 Dodge St., Omaha, R. B. Robinson, engr. M. W., making plans 6 mi. and 10 mi. Lyman-Gering Branch, Scotts Bluff Co. $236,619 and $272,553 respectively.

Bids Desired

Pennsylvania—See "Bridges."



Veteran Pavements Are Brick Pavements

Do you know of any other pavement at a comparable cost which can hope to equal the records already established by these vitrified brick pavements? The figure in the parentheses at right gives the years of service already rendered.

Jacksonville, Fla.	(32)
Joliet, Ill.	(32)
Springfield, Ill.	(37)
Davenport, Iowa	(34)
Winona, Minn.	(34)
Greenville, Miss.	(27)
Meridian, Miss.	(28)
Lincoln, Neb.	(35)
Tonawanda, N. Y.	(35)
Bucyrus, Ohio	(31)
Cleveland, Ohio	(36)
Columbus, Ohio	(38)
Steubenville, Ohio	(38)
Clearfield, Pa.	(35)
Williamsport, Pa.	(33)
Lynchburg, Va.	(34)
New Cumberland, W. Va.	(42)

IN the column at the left are the endurance records of vitrified brick pavements in the service of seventeen widely scattered communities. And remember that the pavements listed *are still in satisfactory use* despite their age.

Compare these lengths of service with the five or ten year performances of so-called "cheaper" pavements and decide for yourself which, on a business basis, represents the better buy.

What is the oldest hard pavement in your vicinity, other than brick? How does it match in length of service rendered with the examples of brick endurance listed at the left?

Advocate

VITRIFIED Brick

THE PAVEMENT THAT OUTLASTS THE BONDS

NATIONAL PAVING BRICK MANUFACTURERS ASSOCIATION, ENGINEERS BLDG., CLEVELAND, OHIO

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Fla., Miami Beach—E. J. Reed, has been granted permit by Secretary of War, constructing bulkheads, dredging and filling in Biscayne Bay southerly of mouth of Miami River for purpose of creating an island, proposed dredging will create an anchorage basin with approximately 140 acre area.

Mo., St. Louis — Bd. Pub. Serv., 208 City Hall, making preliminary plans deepening river channel in Sect. J of River Des Peres Project between St. James Court and Loughborough, approximateely 500,000 cu.yd. excav. $975,000. W. W. Horner, 300 City Hall, engr.

Calif., Santa Barbara — Voted $200,000 bonds, breakwater. Total $400,000. M. Fleischmann, major, appropriates $200,000 toward cost. Noted Feb. 11.

Ont., Westminster — F. W. Farncombe, engr., Dominion Savings Bldg., London, takes bids about June 15, 7 mi. open work and dredging, here, for Twp. Council. $40,000.

Cuba—Dept. Pub. Wks., Havana, plans completing Roque Canal. $700,000. M. A. Corroalles, state ch. engr.

Bids Desired

N. Y., New York—June 2, by State Hospital Comn., Capitol, Albany, excavation for New York State Psychiatric Institution, here. S. W. Jones, state archt; adv. E. N.-R. May 20. Noted May 13 under

Ill., Springfield — June 8, by Dept. Purchases & Constr., State House, Contr. 4-D, incl. fabricating, furnishing and erecting miter lock gates and anchorages and culvert valves on Illinois Waterway at Lockport and Marseilles Locks, 2,536,000 lb. structural steel, 126,000 lb. steel castings, 46,000 lb. steel forgings and 59,000 lb. other metal work, for Illinois Div. Waterways.

Wis., Milwaukee—See "Buildings—Commercial."

Ia., Waukon—May 25, by Bd. Supervs. Allamakee Co., improving Village Creek D. D. 3, incl. 4.4 mi. new channel 6- to 10-ft. deep, 8 ft. bottom width, 77,231 cu.yd. excav., and 0.06 mi. Aldrich Creek lateral, 3,788 cu.yd. excav., etc. C. H. Young, ch. engr. of Central States Eng. Co., Muscatine, engr.

Mo., St. Louis — June 15, by Bd. Pub. Serv., 208 City Hall, excavation of open well caissons and constructing foundation piers and enclosure for new Civil Courts Building. $420,000. Noted Oct. 8 under

Calif., La Mesa—May 31, by Directors La Mesa Lemon Grove & Spring Valley Irrigation Dist., 3,550 lin.ft. 24 in. riveted steel or lock bar pipe, line, etc. T. H. King, 121 South Spring St., engr. Noted Apr. 29.

Bids Received

Calif., Grass Valley — Nevada Irrigation Dist., May 1, **(e. e. means engrs. est.)** constructing conduit from end of project known as Sect. 10 to Lake Spaulding, and Bowman-Spaulding conduit, 12,700 lin.ft. metal flume, etc., from Jasper-Stacy Co., 216 Pine St., San Francisco, $320,938 and $98,684 respectively, e.e. $355,000 and $80,-200 respectively; Clear Creek tunnel and portion Bowman-Spaulding Conduit, from A. D. Kern, 290 East Salmon St., Portland, Ore., $104,965 e.e. $125,500; power line, from Youdall Constr. Co., Matson Bldg., San Francisco, $11,816 e. e. $18,000; and furnishing metal flume, gates and hoists, from California Corrugated Culvert Co., 5th and Parker Sts., Berkeley, $78,229 with alternate bid $89,939. Noted Apr. 22.

Contracts Awarded

N. Y., Albany—Albany Port Dist. Comn., 100 State St., dredging Hudson River, here, to Great Lakes Dredge & Dock Co., 27 Lumber District, $402,000. Noted Apr. 29.

La., Alexandria—Bd. Comrs. Red River, Atchafalaya & Bayou Boef Levee Dist., Commercial Bank Bldg., 185,000 cu.yd. enlargement and turnover earthwork in Avoyelles Parish, to Douglas, Buchanan & Crow, Shreveport, at $0.1495 per cu.yd.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., dredging 115,000 cu.yd. rivers and canals, etc., to Great Lakes Dredge & Dock Co., 216 West Water St., at $0.425 per cu.yd. Noted May 6.

Mo., Valley Park—See "Unclassified."

Streets and Roads

Proposed Work

Mass., Boston—Plans laying out and reconstructing Dunkale, Fuller and Providence Sts. $30,000. J. H. Sullivan, comr. Dept. Pub. Wks.

Mass., Brighton (Boston P. O.) — Dept. Pub. Wks., Boston, plans widening Fanuel St., here. $25,000 or more. J. H. Sullivan, comr.

Mass., Cambridge (Boston P. O.)—Plans widening Bway. and Main St. at Kendall Sq. $325,000 appropriated. Engineer not selected.

N. Y., Albany—Common Council plans repaving Van Woert St., and improving Russell-Blessing Rd. and Partridge St.

N. J., Milltown — Middlesex Co. (New Brunswick) plans sheet asphalt paving 1 mi. Main St., here. W. F. Buchanan, Perth Amboy, engr.

N. J., Sayreville — Middlesex Co. (New Brunswick) plans sheet asphalt paving 1 mi. Main St., here. W. F. Buchanan, Perth Amboy, engr.

Pa., Ebensburg — Comrs. Cambria Co. takes bids about June 18, constructing 1.5 mi. Stoney Creek Twp. and Liberty Ave., also Riverside Bridge, 120 ft. long, concrete, over Stoney Creek, near Scalp Level. $176,000. O. P. Thomas, Park Bldg., Johnstown, engr.

Pa., Phillipsburg—Election soon $35,000 bonds, paving, etc., Front St. on the Lakes-To Sea Highway from Beaver St. to Pennsylvania R.R. tracks, 38 ft. Total $100,000.

Pa., Pittsburgh—Making plans grading, paving, etc., Evergreen Rd., $34,000; also widening and paving, etc., Sprague St. between Oberlin and Spencer Sts. $42,000. City Dept. of Pub. Wks., City County Bldg., engrs.

W. Va., Morgantown—Clay Dist. voted $525,000 bonds, improving roads in Morgan Co. A. J. Baritell, Morgantown, engr. Noted Jan. 28.

W. Va., Parkersburg — Union Co. voted $112,000 bonds improving roads. W. Sharon, Parkersburg, engr. Noted Apr. 22.

W. Va., Williamson — Voted $335,000 bonds, improving streets and repairing water plant. D. M. Good, Williamson, engr. Noted Apr. 8.

North Carolina—State Hy. Dept., Raleigh, plans clearing grubbing, grading, etc. 12 mi. Project 8470, McDowell Co. $85,000. C. M. Upham, Raleigh, engr.

N. C., Greensboro—Plans asphalt on concrete paving 10 streets. E. B. Jeffreys, mayor.

N. C., High Point—Plans paving various streets. $200,000.

N. C., Rutherfordton—Plans paving various streets. $50,000.

Fla., Ft. Lauderdale — Plans Warrenite bitulithic on existing macadam paving portion of Andrews Ave., $241,700; curbing, guttering and concrete surfacing, etc., Lakeview Ave. from Lauderdale Blvd. to Dixie Highway $48,981, Lauderdale Blvd. from South St. to Evans Ave. $256,476, West Park Blvd. from Placid Parkway to Lauderdale Blvd. $30,665, and Colee Ave. and Boulevard, from South St. to Andrews Ave. $53,246. G. E. Turner, city clk.

Fla., Quincy—Gadsden Co., election May 21. $260,000 bonds, constructing State Road 1.

Fla., Sanford—Plans sheet asphalt on 6 in. rock paving, French Ave. from 9th to Hughey Sts., 24 ft., $45,781; also Park Ave. from 3rd to 9th Sts., $40,008, Park Ave. from Fulton to 2nd Sts., and Park Ave. from 2nd to 3rd Sts., $28,553, each 50 ft.

Fla., Tampa—Plans vitr. brick or rock on shell paving Fribley St. from North Blvd. to Gingon Ave., $37,719; Ohio Ave. from North Blvd. to Ridge Ave., $40,800; portions of Massachusetts, Euclid and Taliaferro Aves., $29,931; Woodlawn Ave. from North Blvd. to River Blvd., $52,024; Peninsular Ave. from North Blvd. to Ridge Ave., $49,597; Virginia Ave., from North to River Blvds., $39,020; Garcia Ave. from Arch St. to Garcia Ave. Bridge, $37,740; Indiana Ave. from North to River Blvds., $43,992; and Jackson St. from Jefferson to Drew Sts., $32,988. R. D. Martin, City Hall, engr.

Miss., Natchez—Made plans, curbing and 2 in. asphalt on 4 in. concrete paving Silver, Wall, Rankin, St. Charles, Washington, Canal, Harrison, Commerce, High, Madison and Woodlawn Sts. $60,000. M. L. Culley, 1st Natl. Bank Bldg., Jackson, and P. Klyce, City Hall, engrs.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about June 11, grading and 2 rein.-con. bridges over 20 ft. span, on 10 mi. Huntingdon-McKenzie Rd., Carroll Co.; grading, etc., 8 mi. McMinnville-Tarlton Rd., Warren Co.; and concrete paving 10 mi. Cades-Weakley Co. line Rd., Gibson Co. C. N. Bass, highway comr.

Tenn., Carthage—Smith Co. voted $150,-000 bonds improving 11 mi. Carthage-Putnam Co. line Rd. Noted May 13.

Tenn., Erin — Houston Co. voted $150,-000 bonds improving various roads. Noted May 6.

Tenn., Huntingdon — State Dept. Highways & Pub. Wks., Nashville, takes bids about June 11, improving 10 mi. Huntingdon-McKenzie Rd., Carroll Co., for Carroll Co. and Hy. Dept. C. N. Bass, highway comr.

Tenn., Nashville—Making surveys and estimates asphalt on macadam surfacing Berry Hill, Jefferson and Wilburn Sts., Jo Johnston, Caldwell, 5th, 6th, 12th, 18th, 21st, Stainback and Lischey Aves. W. W. Southgate, City Hall, engr. Noted Dec. 17.

Ky., Elkton—Todd Co. election June 8, $300,000 bonds, improving various roads.

Ky., Murray — Plans grading, curbing, guttering and sheet asphalt paving 28,000 sq.yd. 3rd, 4th, 5th and Olive Sts. $91,000. V. V. Long & Con., 1300 Colcord Bldg., Oklahoma City, Okla., engrs.

Ohio—Comrs. Marion Co. (Marion) and Crawford Co. (Bucyrus) soon take bids improving Marion-Crawford Co. Rd. from Marion Bucyrus Rd. to Mud Pike. $40,000. C. R. Leavens, Marion, engr.

O., Akron—W. F. Peters, dir. Pub. Serv. soon takes bids grading, curbing, sidewalks, and vitr. brick paving 8,950 sq.yd. Glendora Ave., $67,500; also 4,525 sq.yd. Diagonal Rd. 1, $25,800. E. A. Kemmler, Municipal Bldg., engr.

O., Canton—Stark Co. takes bids in summer, improving 3 mi. Massillon-Canal Fulton Rd. $40,000. A. M. Wise, Canton, engr.

O., Marion—Comrs. Marion Co. soon take bids widening 4.17 mi. Marion-Delaware Rd., $111,000; also bituminous macadam or concrete paving, etc. 2 mi. Marion-Mt. Gilead Rd., $70,000, both 16 ft.

O., New Philadelphia—Comrs. Tuscarawas Co. soon take bids improving 4 mi. New Philadelphia-Carrollton Rd., 16 ft. $106,457.

Mich., Detroit—Making plans 3½ in. sheet asphalt on 8 in. concrete paving 4,550 sq. yd. Georgia Ave. $18,660, 2,060 sq.yd. Steel Ave. $8,420, 3,600 sq.yd. Western Ave. $14,-710, 4,450 sq.yd. Grixdale Ave. $18,260, and 2,430 sq.yd. Abrey Ave. $9,940, all foregoing 28 ft. wide; 4,050 sq.yd. Marlowe Ave., 36 ft., $16,590; 3,520 sq.yd. Alcoy Ave. $14,400, 7,730 sq.yd. Woodlawn Ave. $31,-680, 9,250 sq.yd. Greeley Ave. $37,970, and 2,510 sq.yd. Steel Ave. $10,050, all foregoing 30 ft. wide; 5,250 sq.yd. Buena Vista Ave. $21,460, 5,250 sq.yd. Glendale Ave. $21,460, and 5,250 sq.yd. Tyler Ave. $21,-460, all 30 and 36 ft. wide; and 4,770 sq. yd. Waverly Ave., 28 and 32 ft., $18,620. P. A. Fellows, City Hall, city engr.

Mich., Muskegon—Plans paving and resurfacing 3.6 mi. Lake Shore Dr. $120,000. H. J. Lewis, City Hall, engr.

Ill., East St. Louis — Takes bids about June 1, concrete paving, grading, etc., St. Clair Ave., V. and C. R.R. tracks to 33rd St. $97,300. W. McK. Brown, City Hall, engr. Noted Feb. 25.

Ill., Rockford — Plans grading, curbing and rein.-con. paving 10 blocks 8th, Vernon and Yonge Sts., 30 ft. $54,850. B. C. Harvey, City Hall, engr.

Kan., Valley Falls—Soon takes bids 3 in. brick, 7 in. plain concrete or 6 in. vibrated concrete paving 6,500 sq.yd. various streets. $25,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs.

Mo., Joplin — Plans asphaltic concrete paving 14,000 sq.yd. various streets. S. P. Ashcraft, Joplin, engr.

Mo., St. Louis — Plans widening, etc., Grand Blvd. $60,000.

Mo., St. Louis—Plans grading, and paving alleys in City Blocks 1817, 2593, 2634, 2781-N, 5158, 5356, 5655 and 5866. $38,-700 for concrete, and $64,670 brick. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—Making preliminary plans asphalt resurfacing, etc., Merchant St. between 3rd St. and Bway., $3,290; Leffingwell St. between Lucas and Franklin Sts., $5,765; 21st St. between Washington and Cass Sts., $17,250; 25th St. between Cass St. and St. Louis Ave., $21,250; and Lawrence St. between Shaw and McRee Sts., $3,740. J. Slater, street comr.

Mo., Springfield—Election soon bonds to exceed $25,000, curbing and concrete paving various streets. S. R. Fisher, 749 East Madison St., engr.

Mo., St. Louis—See "Unclassified."

Arkansas—State Hy. Dept., Little Rock, soon takes bids grading, gravel surfacing,

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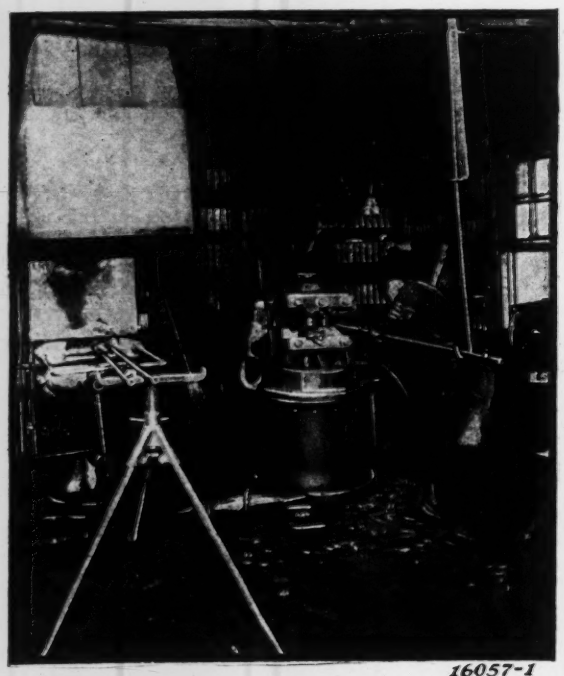

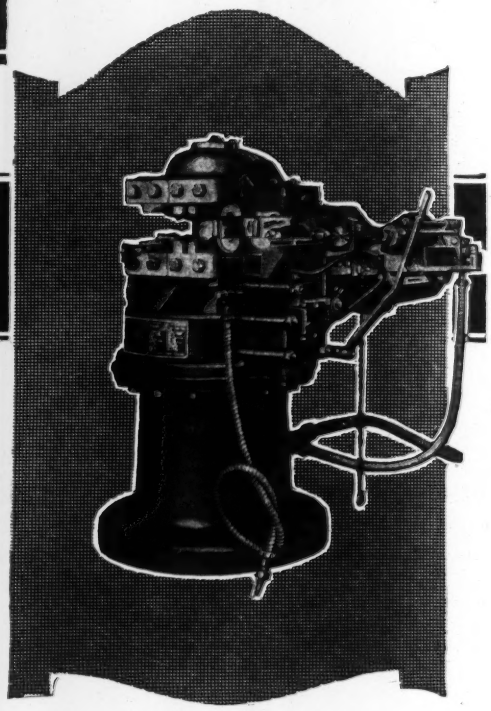

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Streets and Roads (Continued)

etc. 12 mi. Tuckerman-Swifton Dist. from Tuckerman to Alicia. $145,000. R. C. Limerick, highway engr.

Ark., England—Soon takes bids grading, curbing and concrete or Warrenite bitulithic paving 8 blocks various streets. $40,000. Dickinson & Watkins, 609 Boyle Bldg., Little Rock, engrs.

Ark., Batesville—Takes bids in summer, grading, curbing and Warrenite paving 18 blocks streets in Paving Dist. 5. $75,000. W. R. Heagler & Sons, Paragould, engrs. Noted Apr. 8.

Tex., Barstow—Ward Co. soon takes bids grading, bridging and caliche paving 4.596 mi. Highway 1, Federal Aid Project 391-B. $148,000. R. E. Booker, Barstow, engr. Noted Feb. 4.

Tex., Cold Springs—Making plans grading, bridging and gravel surfacing 5.87 mi. Highway 35. $130,000. J. R. Spiller, Cold Springs, engr.

Tex., Sanderson—Terrell Co. takes bids after May 20, grading, bridging and gravel surfacing 7.42 mi. Highway 3, Federal Aid Project 324-D, 18 ft. $68,700. J. Stovall, Sanderson, engr.

Okla., Cushing—Plans grading and concrete paving 12,310 sq.yd. Oak, Spruce and Cedar Sts. $37,710. C. A. Deardorff, Cushing, engr.

Okla., Harrah—Making preliminary plans grading and vertical fibre brick paving 6,200 sq.yd. various streets. $27,000. C. E. Hamer, mayor. Engineer not selected.

Okla., Mounds — Making preliminary plans improving 6 blocks Main St., 40 ft. To exceed $25,000. D. W. Johnson, mayor. Engineer not announced.

Okla., Ponca City — Plans grading and paving 4,800 sq.yd. North 8th St. $25,000. E. A. Jones, Ponca City, engr. Noted Dec. 31.

Okla., Prague—Plans grading and paving 8 blocks Main St. $80,000. H. W. Hartman, mayor. Engineer not selected.

Okla., Oklahoma City — Plans concrete widening 5,440 sq.yd. Robinson St. $25,000. B. M. Hart, City Hall, engr.

Calif., Los Angeles — Los Angeles Co. made plans improving portion of Inglewood Ave., Co. Impvt. 371, 38,177 cu.yd. excav., 428,487 sq.ft. 2 in. on 3 in. Willite surfacing and 371,479 sq.ft. 5 in. disintegrated granite sub-base, etc., $125,000 or more; Bellflower Dist., Co. Impvt. 441, 32,418 cu.yd. excav., 71,183 ft. curbing, 288,720 sq.ft. walks, 149,328 sq.ft. 6 in. guttering and 1,101,733 sq.ft. disintegrated granite, to exceed $150,000; Antelope Ave., Co. Impvt. 425, 90,362 sq.ft. 4 in. asphalt paving, 100,798 sq.ft. 2 in. Durite asphalt surfacing, etc., to exceed $40,000; Cameron Ave., Co. Impvt. 433, 21,788 cu.yd. excav., 23,570 sq.ft. curbing, 93,478 sq.ft. walks, 244,610 sq.ft. 4 in. disintegrated granite roadway, etc., to exceed $50,000; also Peck Rd., Co. Impvt. 468, 10,054 cu.yd. excav., 303,185 sq.ft. vibrolithic concrete paving, etc. to exceed $75,000. G. W. Jones, co. rd. comr.

Calif., Pasadena—Municipal Impvt. Dist. 9, plans election $500,000 bonds, grading, curbing, walks, street lighting system, fire and police signal systems, in various streets. B. Chamberlain, city clk.

Calif., Pasadena—Voted $1,150,000 bonds, extending and widening, grading, paving, etc., Holly Street Impvt. Dist. Noted May 13.

Que., Aylmer East—Secretary South Hull Twp. soon takes bids concrete and sheet asphalt paving 2 mi. Aylmer Rd. $30,000.

Que., Outremont—Soon take bids paving Bernard Ave. $51,000, sidewalks $15,500, paving various streets $51,000, and grading $37,000.

Que., Verdun — Soon takes bids tar macadam and asphalt paving several streets. $184,480. J. Wishart, city secy.

Ont., Toronto—Plans widening, etc., 1½ mi. Bloor St. between Sherbourne St. and Spadina Ave., from 66 ft. to 86 ft. $1,500,000. R. C. Harris, City Hall, engr.

Ont., Toronto — City Council plans extending and widening Sherbourne St. from South Dr. northwards approximately 1 mi. to Mt. Pleasant Rd., 86 ft., incl. 900 ft., highway bridge, 76 ft. over Rosedale Ravine, and subway under Canadian Pacific Ry. tracks. $2,903,000. R. C. Harris, City Hall, engr.

B. C., Point Grey — Municipal Council takes bids about May 31, concrete paving 10th Ave. from Alma Rd. to Sasamat. $40,000. W. B. Greig, 5851 West Boulevard, engr.

Cuba — Dept. Pub. Wks., Havana, soon takes bids constructing 700 mi. Central Highway. $60,000,000. M. A. Coroalles, state ch. engr. Noted May 6.

Bids Desired

Me., Portland — May 22, by Dept. Pub. Wks., granite block paving 2,000 sq.yd., split and redressed granite block paving 1,100 sq.yd. and split and redressed granite paving 4,170 sq.yd. St. John and Cross Sts. W. O. Thompson, Dept. Pub. Wks., purch. agt.

Mass., Boston—May 24, by Dept. Pub. Wks., sheet asphalt or bitulithic paving in Wade St. Ward 21. $25,000. J. H. Sullivan, comr.

Massachusetts — May 25, by Dept. Pub. Wks., Boston, bituminous concrete paving 4,550 ft. highway in Sandwich; bituminous macadam paving 1,900 ft. in Medfield, and 1,500 ft. in Avon, all 18 ft. W. F. Williams, comr.

Massachusetts — June 1, by Dept. Pub. Wks., Boston, bituminous macadam paving 26,670 ft. highway in Goshen and Williamsburg and 26,033 ft. highway in Paxton and Worcester, both 18 ft. W. F. Williams, comr.

Rhode Island — May 26, by State Bd. Pub. Rds., Providence, rein.-con. paving 1.4 mi. road in East Providence, Contr. 2606, and 3 mi. in North Smithfield, Contr. 2610; bituminous macadam paving 1 mi. in Burrillville, Contr. 2608, 1.5 mi. in Lincoln, Contr. 2611, and 4.5 mi. in Portsmouth, Contr. 2609; adv. E. N.-R. May 20.

N. Y., Brooklyn—May 26, by J. A. Guider, pres. Brooklyn Boro, Boro Hall, grading and 6 in. asphalt on concrete paving Caton Pl., East 37th St. and Liberty Ave.; grading, curbing and flagging Avenue I and East 4th, East 5th, East 37th and East 48th Sts.; also restoring and repaving where and when directed asphalt paving various streets in boro damaged by subsurface work, etc.

N. Y., Brooklyn—May 27, by Park Bd., Arsenal Bldg., Central Park, New York City, F. D. Gallatin, pres., sheet asphalt and concrete paving various parkways and park roads, during 1926.

N. Y., New York—May 24, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading and granite block repaving Forsythe St. and 5th Ave.; widening and repaving Madison Ave.; also grading and asphalt block paving Stone St.

N. J., Dover—June 8, by Bd. Freeholders Ocean Co., Courthouse, Toms River, rein.-con. paving 25,680 sq.yd. Washington St., Sect. 2, here. J. M. Abbott, co. engr.; adv. E. N.-R. May 20.

N. J., Jersey City—See "Unclassified."

N. J., Lakewood—June 8, by Bd. Freeholders Ocean Co., Courthouse, Toms River, rein.-con. paving Central Ave. Sect. 5. J. M. Abbott, co. engr.; adv. E. N.-R. May 20.

N. J., Newton—June 1, by Sussex Co., concrete paving approximately 13,923 sq. yd. Ross Croner-Sussex Rd., Sect. 1-A, Frankford Twp. H. Snook, co. engr.; adv. E. N.-R. May 20.

Pennsylvania — June 3, by State Hy. Dept., Harrisburg, constructing approximately 32 mi., 13 projects in Allegheny, Beaver, Berks, Clearfield, Erie, Fayette, Jefferson, Mifflin, Northampton, Westmoreland and York Counties. W. H. Connell, eng. executive and acting secy. highways; adv. E. N.-R. May 20.

Pa., Greensburg—June 2, by W. A. Arter, contr. Westmoreland Co., 18 ft. rein.-con. repaving, etc. approximately 12,255 ft. Monessen-Pricedale Rd., Rostraver Twp.

Pa., Pittsburgh—May 26, by Controller Allegheny Co., rein.-con. paving, etc., 9,600 ft. Warrendale-Bayne Rd., $100,000; and concrete paving 11,259 ft. Duncan Ave. extension, $150,000, both 18 ft.

Pa., Uniontown—May 27, by E. Huston, controller Fayette Co., one course rein.-con. paving, etc., 19,950 ft. Adah-Ederborn Rd., and 1,750 ft. Sandy Hollow Rd.

Pa., Tyrone—May 26, by B. Carpenter, chn. highway comn., rein.-con. paving 22,800 sq.yd. West 15th and Columbia Ave., 20th St.

Delaware—June 9, by State Hy. Dept., Dover, grading and concrete paving, etc., 0.97 mi. Contr. 64, 3.55 mi. Contr. CN-29, and 3.27 mi. Contr. CS-48, constructing 400 ft. Kennett Pike Drainage, Contr. 66, and grading, etc., 0.4 mi. Contr. 67; adv. E. N.-R. May 20.

Maryland—June 1, by State Rds. Comn., macadam resurfacing 1.15 mi. Contr. F-93, Frederick Co., and 1.9 mi. Contr. Ce-57, Cecil Co.; concrete paving 1.88 mi. Contr. F-33, Frederick Co., 0.5 mi. Contr. Cr-37 Charles Co., 1.2 mi. Contr. K-30 Kent Co., and 2.2 mi. Contr. T-24 Talbot Co.; also graveling 2.9 mi. Contr. Sm-37, Charles Co. J. N. Mackall, chn.; adv. E. N.-R. May 20.

D. C., Wash.—May 25, by Dist. Comrs., District Bldg., 35,000 sq.yd. cement sidewalks on various streets.

Virginia—May 24, by State Hy. Comn., Richmond, improving roads on Projects S-145-G and K, S-395, S-420-B, F-440-A and S-441; and bridge on Project F-439; adv. E. N.-R. May 20.

West Virginia—June 1, by State Road Comn., Charleston, improving roads on Projects 48, 102, 2002, 2188, 3036, 3151-A, 3151-B and 3152, Boone Co., Project 3374 Lincoln Co., Projects 150-A and 3200 Logan Co., Project 139-C Mason Co., Project 3303-C Mingo Co., Projects 2180 and 3348 Wayne Co., Projects 3075-B and C Jackson Co., Project 3310 Marshall Co., Project 3078-B Pleasants Co., Project 3341 Barbour Co., Project 3186 Preston Co., Project 70-R Grant Co., and Project 1119, Mineral Co.; also bridges on Project 150-A Logan Co., Project 3362 Mason Co., Project 3326-B Putnam Co., Project 3363 Harrison Co., and Project 155 Marion Co. E. B. Carskadon, secy.; adv. E. N.-R. May 20.

South Carolina—May 27, at Office Colleton Co. Road Comn., Waterloo, sand clay surfacing, etc. 16,000 cu.yd. Project 4. Lee, Murray & Palmer, Walterboro, engrs.

Ala., Jasper—May 24, by E. W. Long, judge of probate, Walker Co., concrete surfacing 13,000 sq.yd. Oakman-Parrish Highway. P. S. Healey, Oakman, engr.

Miss., Amory—May 24, by Bd. Aldermen, curbing, guttering and rock asphalt paving 22,500 sq.yd. various streets. A. L. Dabney, Columbia Tower Bldg., Memphis, Tenn., archt. Noted Apr. 1.

Louisiana—June 15, by State Hy. Comn., Baton Rouge, graveling 11.72 mi. Oberlin-DeRidder Highway, Federal Aid Project 167-A, Allen Parish. W. B. Robert, Reymond Bldg., Baton Rouge, highway engr.

La., Cedar Grove — May 25, by C. D. Evans, engr., 414 Levy Bldg., Shreveport, rein.-con. paving 7 blocks Caddo Ave. from 59th to 66th Sts., for City. $50,000. Noted Apr. 22.

La., Lake Charles — June 12, by E. L. Gormah, comr. Streets & Parks, widening and paving Pithon Coulee, paving Bank St., and laying 2 mi. storm sewers. $300,000 bonds voted for same.

Tenn., Nashville — See "Contracts Awarded."

O., Cincinnati — May 28, by Comrs. Hamilton Co., oil surface treating 50 mi. various roads, 16 ft. $34,125. E. A. Gast, Courthouse, engr. Noted Apr. 15.

O., Hamilton—May 28, by Comrs. Butler Co., E. O. Roll, clk., grading and waterbound macadam paving, etc., 38,275 ft. Oxford-Collinsville Rd., also Huston and Depot Rds. $65,000.

O., Norwalk—May 24, by Comrs. Huron Co., grading and waterbound macadam paving approximately 3½ mi. Sect. "A" County Rd. 77, Greenwich Twp., and Sect. "A" Bucyrus Rd. 20, New Haven Twp.; 16 ft. $67,000. A. S. Vail, co. aud. and clk.

Ind., Warsaw — June 8, by Comrs. Kosciusko Co., grading, graveling or macadamizing Ludlow County Unit Rd., Monroe Twp., $23,126, and Charles Sigler et al concrete road, Wayne Twp., $55,646. H. Breading, aud.

Michigan—May 27, by State Hy. Dept., at office Comrs. Clinton and Ionia Counties, at Jackson, graveling 6.563 mi. State A. D. 466. H. C. Fleming, Jackson, engr.

Mich., Ecorse — May 24, by I. Morris, village clk., curbing and concrete paving 44,000 sq.yd. West Jefferson Ave. $200,000. M. L. Brown & Son, 407 Capitol Bldg., Detroit, engrs.

Mich., Gobels—June 1, by Village, concrete paving 1.003 mi. S. T. L. 40-8, Sect. B, 20 ft. R. A. Beers, Kalamazoo, engr.

Mich., Harrison — June 9, by Clare Co., concrete paving 1.68 mi. T. L. 20-13, 20 ft. R. W. Roberts, Saginaw, engr.

Ill., Chicago—May 27, at office Bd. Local Impvts., Room 207, City Hall. 6 ft. concrete sidewalks on East 104th Pl., Avenue F, South Lincoln, Altgeld, Cortez, East 82nd, Homer, East 94th, West 98th, East 99th, East 110th, South Paulina, South Robey, South Richmond, West 72nd, West 77th, East 77th, East 78th, South State, Seneca, East 124th and West 59th Sts., Torrence, Forest Glen, Chappel, Colfax, Chauncey, South California, Euclid, South Francisco, North Kilpatrick, Laportie, North Laramie, North Luna, Leclare, Hale, North Latrobe, South Michigan, St. Paul, Wentworth, Cherry and North Harlem Aves. J. J. Sloan, pres.

Wisconsin—May 25, by State Hy. Dept., at Div. Office 9, Grant Co., Herald Bldg., Lancaster, crushed limestone surfacing, etc., 18,021 cu.yd. Federal Aid Project 415-A, Grant Co.; crushed gravel surfacing 1,413 cu.yd. State Project 9145, Richland Co.; also grading and bridging 2.19 mi. State Project 9191, Richland Co.; and improving State Project 10.229, Sta. 40-E plus 65 to Sta. 56 plus 26, Iowa Co., 13,868 cu.yd. earth, 400 cu.yd. loose and 100 cu.yd. solid rock excav., 4,060 cu.yd. ditching etc. J. T. Donaghey, Madison, ch. engr.

Wisconsin—May 26, by State Hy. Comn., at Office 8, Superior, improving Federal Aid Project 408-A, Polk Co., 231,520 cu.yd. earth, 9,918 cu.yd. loose and 1,380 cu.yd. solid rock excav., 6,500 cu.yd. stripping gravel pit, 25,820 cu.yd. loading, screening, and crushing gravel, 2,510 cu.yd. top soil-

Streets and Roads (Continued)

ing, etc.; top soiling, etc., 1,536 cu.yd. State Project Job 8289, and graveling, etc., 684 cu.yd. State Project 8278, both Ashland Co. J. T. Donaghey, Madison, ch. engr.

Wisconsin—May 28, by State Hy. Comn., at Div. Office 5, La Crosse, grading, bridging, crushed rock surfacing, etc., 14,123 cu.yd. State Aid Project 5878, Sect. 1, Vernon Co.; and 9,119 cu.yd. Sect. 2 same road. J. T. Donaghey, Madison, highway engr.

Wis., Milwaukee — May 22,, Dept. Pub. Wks., asphalt repaving 13,200 sq.yd. and asphalt paving 9,325 sq.yd. East Water, Erie and North Water Sts.

Wis., Juneau — May 27, by Hy. Com. Dodge Co., concrete surfacing, etc., 34,073 sq.yd. State Trunk Highway 109, Job 1873, 18 ft., and 13,791 sq.yd. Job 1917; graveling, etc., 10,060 cu.yd. State Trunk Highway 60, Job 1892, 1,830 cu.yd. Job 1916, 7,500 cu.yd. South County Line Rd., etc., and 4,000 cu.yd. County Trunk B. E. T. Klug, highway comr.

Wis., Seymour — May 25, by B. G. Dean, city clk., grading, vibrolithic concrete paving, etc. 9,534 sq.yd. Main St.

Minn., Duluth—June 15, by P. G. Phillips, city comr., concrete paving, etc. 5,125 ft. Michigan St. between 2nd Ave. E. and 9th Ave. W. 33 ft. $94,808. J. Wilson, city engr.

Minn., Duluth—June 22, by P. G. Phillips, city comr., concrete paving, etc. 1,300 ft. 5th Ave. W. between Northern Pacific R.R. tracks and dock line, 38 ft. $36,679. J. Wilson, city engr. Noted Feb. 11.

Minn., St. Paul—May 24, by G. J. Ries, aud. Ramsey Co. grading, bridging and graveling, etc. 12,000 cu.yd. Capitol Highway, Project 26-51. $35,000. P. N. Coates, 900 Guardian Life Bldg., co. surv.

Neb., Omaha—June 2, by G. Berger, clk. Douglas Co., brick, bituminous concrete, sheet asphalt or concrete paving, etc., 42,-900 sq.yd. Federal Aid Project 187, and 11,160 sq.yd. Federal Aid Project 100. R. L. Cochran, Lincoln, highway engr.

N. D., Fargo—May 28, by A. R. Watkins, city aud., asphaltic concrete, vitr. brick, one course concrete or Warrenite bitulithic paving, etc. 5 blocks Paving Dist. 179, 13th St. North between 12th and 17th Aves. $25,000. R. T. Jacobson, city engr.

Missouri—May 28, by State Hy. Dept., Jefferson City, grading, 7 ft. graveling, 9 and 18 ft. concrete paving, etc., 32.71 mi. various roads in Cape Girardeau, Douglas, Dunklin, Jefferson, Lafayette, St. Francois and Wayne Counties. B. H. Piepmeier, ch. engr.

Mo., Clayton—May 25, by A. Kirk, city clk., improving Hanley Rd., approximately 17,500 sq.yd. bituminous macadam or asphalt paving, 9,300 cu.yd. grading, and 10,625 ft. curbing and guttering. $77,000. Keck Surveying Co., 721½ Chestnut St., St. Louis, engrs. Noted Feb. 11.

Mo., Kansas City — May 24, by L. E. Koehler, engr. Jackson Co., Court House, concrete or bituminous macadam paving, etc., 20,320 sq.yd. Leeds Rd. between Blue Ridge and Kansas City. To exceed $25,000.

Mo., St. Louis—See "Contracts Awarded."

Mo., St. Louis—Taking bids recut granite block paving, etc., 17,950 sq.yd. Cass Ave. $115,000; shallow granite block paving, etc., 18,530 sq.yd. Cass Ave. between Hogan and Glasgow Sts. $136,000, and 5,009 sq.yd. Arlington St. $15,680; also Warrenite bitulithic paving, etc., 18,000 sq.yd. West Floriessant Ave., $99,280. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis — June 8, by Dept. Pub. Serv., 208 City Hall, rein.-con. paving, etc. Watson Rd. between Penrod St. and city limits $41,000, Loughborough St. between Gravois and Field Sts. $57,600, and 760 sq.yd. Bay Keokuk St. $4,150; asphalt paving, etc. 818 sq.yd. Lee Ave., $60,400; and grading 15,685 cu.yd. Grand St., $19,-400. W. W. Horner, 300 City Hall, engr.

Texas—May 25, by State Hy. Comn., Austin, H. Moseley, chn., grading, bridging and Bates type concrete paving with shell shoulders 5.003 mi. Highway 6, Federal Aid Project 466-G, 20 ft., Galveston Co. $225,-000. C. C. Washington, Galveston Co., engr.

Texas — May 25, by State Hy. Comn., Austin, H. Moseley, chn., grading, bridging, etc. ,11.492 mi. Highway 29, State Aid Project 652, 26 ft., Georgetown Co. $67,000. M. C. Welborn, Georgetown, resident engr.

Texas — May 25, by H. Moseley, chn. State Hy. Comn., Austin, grading, bridging, etc., 3.689 mi. Highway 23, State Aid Project 655-A, 26 ft., Eastland Co., $138,000; and 9.924 mi. Sect. B same road, $65,000. G. E. Franklin, Eastland, engr.

Texas — May 25, by State Hy. Comn., Auustin, H. Moseley, chn., grading and Bates type section of rein.-con. paving 13.8 mi. State Highway 3, Federal Aid Project 352, Unit 2, 18 ft., Liberty Co. $400,000. S. J. Treadway, Liberty, co. engr.

Tex., Galveston—May 20, by C. C. Washington, engr., Galveston, concrete paving, etc., 5.003 mi. Highway 6, Federal Aid Project 466-G, 18 ft., for Galveston Co. $266,000. Noted May 6.

Okla., Carnegie—May 25, by City Clerk, paving various streets. $70,000. Grant, Fulton & Letton, Magnolia Bldg., Oklahoma City, engrs. Noted May 13.

Nevada—May 26, by State Hy. Dept., Carson City, surfacing, etc., 7.57 mi. Sparks-Hafed Rd., Route 1, Sects. B-4 and B-2, Washoe Co. C. W. Borden, highway engr.

Arizona — May 28, by W. C. Lefebvre, state engr. Phoenix, grading, 2 in. asphaltic concrete on 4 in. bituminous, 2 in. on 4 in. bituminous, or 6 in. concrete paving, etc., 42,400 sq.yd. Federal Aid Project 82-A.

Calif., Martinez—June 7, by J. H. Wells, co. clk. Contra Costa Co., rock screening and oil surfacing 253,440 sq.ft. Tunnel Rd. R. R. Arnold, Martinez, co. surv.

Calif., San Diego—June 1, by Common Council, improving University Ave., 359,988 sq.ft. 5 in. concrete paving, 39,095 cu.yd. excav., 16,261 lin.ft. concrete curbing, etc. F. A. Rhodes, city engr.

Calif., San Jose—June 7, by H. Pfister, clk. Santa Clara Co., either 6 in. concrete or 4½ in. asphaltic concrete paving 592,000 sq.ft. Mountain View and Alviso Rd. R. Chandler, San Jose, co. surv.

B. C., Trail—May 25, by City Council, rein.-con. paving, etc., 4,000 sq.yd. Bay and Riverside Aves. $32,000. S. S. McDiarmid, City Hall, engr.

Bids Received

New Hampshire—State Hy. Dept., Concord, May 11, asphalt paving 0.51 mi. highway in Hampton, from Winslow Cummings, Nasahua, $14,054, 0.91 mi. in Pembroke, from Robie Constr. Co., Manchester, $16,-603, and 0.7 mi. in Boscawan, from A. D. Bridges Co., Hazardville, Conn., $17,688; also gravel surfacing 0.64 mi. in Charlestown, from J. P. Ricci, Burlington, Vt., $19,179. Noted May 6.

New Hampshire—State Hy. Dept., Concord, May 11, gravel surfacing 0.94 mi. highway in Andover, from J. E. Ricci, Claremont, $22,272. Noted May 6.

Massachusetts—Dept. Pub. Wks., Boston, May 11, bituminous macadam paving 5,281 ft. highway in Rayham, from F. L. McNeil, Winthrop St., North Dighton, $30,-718, 3,300 ft. in Grafton, from T. Toomey, 60 Lake St., Webster, $14,450, and 18,548 ft. in Hingham and Weymouth, from Lane Constr. Co., 37 Colony St., Meriden, Conn., $252,787; also gravel surfacing 1,950 ft. in Medway, from A. D. Pasquale, Milford, $6,762. Noted May 6.

Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, bituminous macadam paving West Roxbury Parkway in Boston and Brookline, from T. J. McCue, North Beacon St., Watertown, $72,428.

Mass., Dorchester (Boston P. O.)—Dept. Pub. Wks., Boston, sheet asphalt or bitulithic paving Lorna Rd., from Ormac Co., 755 Boylston St., Boston, $23,997. Engrs. est. $25,000. Noted May 6.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., May 13, from C. D. Beckwith, Inc., 2875 Bway., sheet asphalt paving East 174th St. $84,968, Commonwealth Ave. $35,-970, and bituminous concrete paving East 180th St. $22,733; from Murray Home Corp., 412 Sound View Ave., grading, etc., Bolton Ave. $544, from I. F. Cavaluzzo, 1192 Sheridan Ave., Ellsworth Ave. $6,835, and from Carroll & Rice, 204 East 45th St., Spofford Ave. $4,717; from F. Gabrielle, 2750 Creston Ave., sewer, etc., in Yates Ave. $3,627, and from Fiorello & Koch, 1895 Belmont Ave., in Vouck Ave. $3,523. Noted May 6.

New York—A. W. Brandt, comr. Highways, Albany, May 7, **(e. e. means engineers estimate)** improving 5.4 mi. Repair Contr. 1504, Highway 398, County Line Highway, Monroe and Orleans Counties, from W. J. Gallagher, Medina. $167,356 e.e. $222,433; 3.8 mi. Highway 1727, Grove Corners-Hilton Highway, Monroe Co., from Stapell, Mumm & Beals Corp., Gardenville, $146,824 e.e. $191,533; 0.84 mi. Highway 5292 A, Truxton-DeRuyter Highway, Cortland Co., from G. D'Angelo, 84 Court St., Binghamton, $48,394 e.e. $63,883. Noted Apr. 22.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, May 12, grading, curbing and flagging Forbell and Pennsylvania Aves., from Grimm Contg. Co., 170 McKinley St. $1,746 and $4,564 respectively, Minna St. from A. M. Zapponi, 113 32nd St. $4,789, and East 7th St., from Castle Bros., Johnson Pl., $10,381; granite paving Eagle St. and Greenpoint Ave., from F. J. Gallagher, 490 Park Pl., $14,164 and $20,882 respectively; asphalt paving East 7th St. and Minna St., from Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., $15,798 and $6,242 respectively, Fulton St., from Highway Impvt. & Repair Co., 50 Church St., New York City, $[illegible]347, Colonial Rd. and 50th St., from [illegible] Turcamo Contg. Co., 8706 16th Ave., $6,[illegible] and $5,006 respectively; grading and asphalt repaving Eagle and Moultrie Sts., from Borough Asphalt Co., 1301 Metropolitan Ave. $5,534 and $8,087 respectively, Georgia and Pennsylvania Aves., from Uvalde Asphalt Paving Co., 1 Bway., New York City, $8,509 and $10,307 respectively. Noted May 6.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, May 12, grading and paving Arthur Ave. from Richmond Ave. to Old Town Rd., from Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $29,639. Noted May 6.

New Jersey—State Hy. Comn., Trenton, May 10, grading and rein.-con. paving 43,-411 sq.yd. Route 9, Sect. 19, Perryville to Clinton, Hunterdon Co. from H. Shapiro Co., Rutherford, $234,380. Noted Apr. 22.

N. J., Woodbridge—Middlesex Co. (New Brunswick), paving 1½ mi. Woodbridge Ave. between Piscataway Corner and Bonhamtown, here, from Graham & McKeon, 264 Smith St., Perth Amboy, $55,224.

Pennsylvania—State Hy. Dept., Harrisburg, **(A. means Application and R. means Route)**, one course rein.-con. paving, etc., 21,515 ft. R. 260-537, Blair Co., from Miller Constr. Co., Spirits Bldg., Punxsutawney, $199,052, 15,662 ft. A. 3856, Dauphin Co., from York Eng. & Constr. Co., 31 West Market St., York, $97,893, 13,278 ft. A. 3754-3755, Allegheny Co., from D. W. Challis & Sons, Inc., 420 Centennial Ave., Sewickley, $133,763, 8,027 ft. R. 435-436, A. 3386, Jefferson Co., from J. Wiesmer & Son, 372 Chestnut St., St. Marys, $62,012, 8,608 ft. R. 80, A. 3934-4101, Mercer Co., from J. McCarthy Constr. Co., Kaukauna, Wis., $69,673, 13,200 ft. R. 12, A. 4001, Susquehanna Co., from R. Haycock, 20 South 15th St., Phila., $99,745, 11,369 ft. A. 3667-3984, Westmoreland Co., from Cooper Constr. Co., Inc., Clymer, $137,906, 3,370 ft. R. 106, A. 3964, Tioga Co., from D. L. Dennis Co., Galeton, $28,781, 44,168 ft. R. 115, A. 3797-3624-3625, Beaver Co., and 8,243 ft. A. 3441-3670, Bucks Co., from R. L. Bonham Co., Inc., 26 South Laurel St., Bridgeton, N. J., $351,908 and $87,487 respectively, 20,011 ft. R. 213, A. 3936-4100, Merced Co., and 15,385 ft. A. 3935, Mercer Co., from Jamieson & Knapp Co., Fredonia, $133,477 and $87,499 respectively, 34,097 ft. Sect. 1, A. 3842, Berks Co., from D. L. Risser, 713 Walnut St., Lebanon, $254,254, 22,809 ft. R. 278, A. 3831, Beaver Co., from R. F. Hallam & Son, Fairmont, W. Va., $158,032, 27,241 ft. R. 174, Sect. 1, Susquehanna Co., from W. D. Fote, 130 South 4th St., Olean, N. Y., $297,406, and 15,580 ft. R. 50, A. 3680, Somerset Co., from Tri-State Eng. Co., 39 Liberty Trust Bldg., Cumberland, Md., $160,088; also broken stone surfacing 25,000 ft. A. 3770, Luzerne Co., from D. C. Reitz Constr. Co., 620 Market St., Sunbury, $122,111. Noted Apr. 15.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, 216 City Hall, May 12, grading, curbing, paving, etc. Washington Ave., 24th, 25th, Manton, Oakford and all adjacent streets, etc. Contr. 210, from G. F. Dobbins, 1020 South 47th St., $289,950.

Maryland—State Rds. Comn., Baltimore, May 11, concrete paving 1 mi. Contr. Q-37, Queen Annes Co., from J. K. Flick, Sudlersville $16,025, 1 mi. Contr. C1-57 Carroll Co., from Development & Constr. Co., Auer Bldg., Baltimore $22,146, 1 mi. Contr. F-91, Frederick Co., from L. R. Waesche, Thurmont $17,388, 1.38 mi. Contr. B-73, Baltimore Co., from E. C. Valentine, Rocky Ridge $26,018, and 0.5 mi. Contr. D-42, Dorchester Co., from A. Farmer, St. Michaels $8,850; also graveling 2 mi. Contr. SM-35, St. Marys Co., from Southern Maryland Constr. Co., 12 East Lexington St., Baltimore, $16,652. Noted Apr. 29.

Md., Baltimore — Bd. Awards, grading, curbing and sheet asphalt paving 5,665 sq. yd. streets in Contr. 336, from Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $28,896; and concrete paving footways as listed in Footway Contr. 93, from P. Averza, 104 North Highland Ave., $41,-031. Noted May 13.

Md., Baltimore — Comrs. Baltimore Co., May 11, concrete paving 2.9 mi. Group 7, from H. T. Campbell & Sons, Towson, $82,-387. Noted May 13.

North Carolina—State Hy. Comn., Raleigh, May 4, from Zeigler Bros., Greensboro, grading, concrete or asphaltic paving, etc., 9.04 mi. Project 1280, Edgecombe Co. $237,335, 10.18 mi. Project 1993, Wilson Co. $242,378, and 5.64 mi. Project 909, Buncombe Co. $160,543, from L. L. Tindall, Waterford, Wis., 6.99 mi. Project 756, Stokes Co. $170,760, from F. L. McGuire, Bankers Trust Bldg., Norfolk, Va., 9.04

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mi. Project 1050, Beaufort Co. $242,293, from Blythe Bros., Brevard Court, Charlotte, 11.97 mi. Project 337, Cumberland Co. $262,518, and 14.36 mi. Project 307, Bladen Co. $273,440; from Chandler & Gregory, Virgilina, Va., clearing, grubbing, grading, etc., 9.72 mi. Project 637, Iredell Co. $65,868, 9.88 mi. Project 624, Catawba Co. $55,883, and 11.55 mi. Project 244, Jones Co. $80,796, from Atlantic Paving Co., Salisbury, 13.59 mi. Project 669, Rowan Co. $59,775, from C. E. Hill & Son, Apex, 8.34 mi. Project 135, Halifax Co. $66,698, from Jamison Bros., Inc., High Point, 10.51 mi. Project 398, Robeson Co. $41,733, grading and topsoiling, etc., 14.77 mi. Project 165, Northampton Co. $125,544, also from Beal Bros., Bear Creek, 12 mi. Project 303, Bladen Co. $72,617. Noted Apr. 22.

O., Akron—W. F. Peters, dir. Pub. Serv., May 10, **(e. e. means engineers est.)**, improving Oberlin St. et al, 1,760 lin.ft. stone curbing, 7,700 sq.ft. 4 in. concrete sidewalk, and 2,230 sq.yd. vitr. brick paving, etc., from Columbus Asphalt Paving Co., 304 Buckeye Bldg., $15,232 e. e. $17,900; Sheck St., 8,000 sq.ft. 4 in. concrete sidewalk, 1,400 cu.yd. earth excav., 400 cu.yd. cindering, from H. G. Baltes, 883 Bloomfield Ave., $5,628 e. e. $6,600; Hunt St., 7,100 sq.ft. 4 in. concrete sidewalk, 725 cu.yd. cindering, from Guron & Brancich, 429 Mathews St., $3,978 e. e. $4,900; Crouse St. et al, 4,460 lin.ft. stone curbing, 9,200 sq.ft. 4 in. concrete sidewalk, 6,730 sq.yd. vitr. brick on 6 in. concrete paving, from Shullo & De Luca, 140 North Summit St., $32,935, and McCourt Constr. Co., 369 South Main St., $6,715. Noted Apr. 22.

O., Cincinnati — Hamilton Co., grading and tar bound macadam repaving 17,900 sq.yd. Eagle Creek Rd. from Harrison Pk. to Thompson Rd., from J. A. Nickoson, Sayler Park Sta., $49,560. Engrs. est. $53,115. Noted Mar. 25.

O., Cincinnati—Director Pub. Wks., Apr. 5, granite curbing, cement sidewalks, granite block paving 3,800 sq.yd. Plum St., from Hannon-Hughes Constr. Co., 312 East 8th St., $55,246. Engrs. est. $63,812. Noted Apr. 1.

O., Cleveland—Improving with **(a)** brick **(b)** bituminous concrete **(c)** concrete **(1)** Linn Dr. **(2)** East 117th St. **(3)** Hale Ave. (1 to 3 inclusive) involves 2,850 lin.ft. stone curbing, 2,700 cu.yd. earth excav. and 4,130 sq.yd. paving **(4)** West 148th St. **(5)** Ardmore Ave. (4 and 5) involves 7,900 cu. yd. excav., 6,950 sq.yd. paving, 4,560 ft. granite curbing, etc., and **(6)** Glen Ave., 500 cu.yd. excav., 900 ft. stone curbing, 1,290 sq.yd. surfacing, etc., from Gould & Maybach, 16311 Saranac Rd., **(a1)** $13,583 **(b1)** $11,888 **(c1)** $11,706 **(a2)** $2,753 **(b2)** $2,319 **(c2)** $2,208 **(a3)** $7,312 **(b3)** $5,987 **(c3)** $5,428; from Roehl Bros. Constr. Co., 7112 Denison Ave., **(4 and 5)** $20,139 each; from H. G. Herring, Wayside Rd., **(a6)** $7,408 **(b6)** $6,159 and **(c6)** $6,151. Noted Apr. 29.

O. Cleveland — Cuyahoga Co., improving Pearl Rd. 2, 10,860 lin.ft. granite curbing, 12,660 lin.ft. 4 in. french drain guttering, 17,515 cu.yd. earth excav. and 31,480 sq.yd. concrete paving, etc., from Highway Constr. Co., Guarantee Title Bldg., $156,057.

Ind., Anderson — Madison Co., grading, curbing, paving, etc., 22nd St. from Brown to Raible Sts. and 22nd to Nichol Sts., from G. B. McKown Co., Noblesville, $68,-577. Engrs. est. $78,000.

Mich., Fordson—From W. H. Knapp Co., Monroe, grading and concrete paving 4,356 sq.yd. Assessment Dist. 114 $15,691, 4,021 sq.yd. Dist. 116 $14,144, 8,580 sq.yd. Dist. 117 $30,470, and 787 sq.yd. Dist. 118 $2,741; from Ocascro Constr. Co., 1548 Penobscot Bldg., Detroit, 8,092 sq.yd. Dist. 115 $28,356. Noted May 6.

Mich., Pontiac—Oakland Co., from C. R. Bradley, Royal Oak, graveling 4 mi. Bushman Rd., Dist. 86 $45,900, 2½ mi. Dublin Rd., Dist. 59 $26,652 and 4 mi. Davisburg-White Lake Rd., Dist. 95 $62,011; from Ayers-Bolmer Co., Pontiac, 2½ mi. Armond Rd., Dist. 91 $32,442; and from R. D. Baker Co., 1454 Penobscot Bldg., Detroit, concrete paving 4½ mi. Monnier Rd. on Coolidge Highway, Dist. 88, 20 ft., $339,219.

Mich., Wayne—I. K. Comer, village clk., Apr. 27, paving 80,000 sq.yd. Michigan Ave. and various other streets, from Edwards Asphalt Paving Co., Hamilton, O., concrete $263,828, rein.-con. $280,828, and oil asphalt $263,828. Noted Apr. 22.

Ill., Decatur—Bd. Local Impvts., E. E. Elder, pres., Apr. 29, grading, curbing and asphalt paving 5 blocks East North St., 50 ft., from Birt & Driscoll, Decatur, $33,-208. Engrs. est. $37,022. Noted Feb. 18.

Ill., Kewanee—Bd. Local Impvts., grading, curbing and rein.-con. paving 9 blocks Lexington Ave., 1st and Park Sts. 23 to 40 ft., from Central Eng. Co., Putnam Bldg., Davenport, Ia., $27,244, engrs. est. $46,523; 12 blocks Pine, Helmer, George, Willows and Grove Sts., 18 to 30 ft., from Central Illinois Eng. Co., Moline, $45,516, engrs. est. $60,000. Noted Apr. 15.

Wisconsin—State Hy. Dept., La Crosse grading and crushed stone surfacing 3.12 mi. Project 87-S, Buffalo Co., from Lange Constr. Co., Minneapolis, Minn., $19,428; 4.17 mi. State Job 5891, Vernon Co., from S. J. Groves & Sons, 306 Globe Bldg., Minneapolis, Minn., $58,332; and 8.74 mi. Project 412-A, Vernon Co., from J. Gunnison & Sons, 803 East Gorham St., Madison, $99,953.

Wis., Manitowoc—A. H. Zander, city clk., May 6, paving 39,607 sq.yd. various streets, from Manitowoc Constr. Co., 826 South 8th St., rein.-con. $2.16 per sq.yd. and vibrolithic concrete $2.14 per sq.yd. Noted May 13.

Wis., Milwaukee—Dept. Pub. Wks., May 6, from White Constr. Co., 68 Wisconsin St., asphalt resurfacing Grove St. $4,879, Oregon St. $20,470, and Park St. $4,552, from Badger Constr. Co., 97 Wisconsin St., Wells St. $2,011, also sheet asphalt paving Layton Blvd. $26,222, and State St. $4,589.

Wis., Milwaukee—Dept. Pub. Wks., May 7, vibrolithic or one course concrete paving Swain Ct., from Czerwinski Constr. Co., 816 Clinton St. $13,765, and 26th St., from J. C. Bluhm & Son, 1298 Achilles Pl., $11,-393; grading Sherman Blvd., and vibrolithic concrete paving 59th St., from A. E. Retzlaff, 868 Island Ave. $7,922 and $19,919 respectively; concrete paving 1 alley, from Reid & Mahlberg, 818 Lake Blvd., $3,279, two alleys from Schwerm Bros., 50 Lee St., $7,495, two alleys from F. Hildebrand, 1942 23rd Ave., $7,188, and one alley, from Ryback & Sadowski, 1092 2nd Ave., $917.

Texas—H. Mosely, chn. State Hy. Comn., Austin, Apr. 29, grading and bridging 9.098 mi. State Highway 7 Federal Aid Project 498, Nolan Co., from W. E. Burke, Stephenville, $18,263; also 2½ in. bituminous macadam on sledged stone paving 7.9 mi. Highway 22, Federal Aid Project 304-B, Unit 2, Travis Co., from Womack Constr. Co., Sherman, $88,528, engrs. est. $80,000. Noted Apr. 22.

Tex., Houston — Harris Co., warrenite bitulithic or rock asphalt paving San Jancinto St. from McKinney Ave. to McGowan Ave., from Gulf Bitulithic Co., 801 Bankers Mortgage Bldg., Houston, $121,437. Engrs. est. $130,000.

Tex., Houston — Bitulithic paving San Jacinto St. from McKinny to McGowan Aves., from Gulf Bitulithic Co., 801 Bankers Mortgage Bldg., Houston, $121,437.

Okla., Rush Springs—City Clerk, grading and concrete paving 6,950 sq.yd. Blakeley Ave., from Stephens County Constr. Co., Marlow, $24,421. Engrs. est. $25,000. Noted Apr. 29.

Colorado—State Hy. Dept., Denver, May 5, clay and sand subgrade treating 20.62 mi. Federal Aid Project 287-A, Const. Div. 2, Morgan Co., from Orley-La Nier, Ft. Morgan, $93,051; and paving 5.409 mi. Federal Aid Projects 288-A and B Paving Divs. 1 and 2, Logan and Washington Counties, from E. Selander, Ft. Morgan, $137,696. Noted Apr. 29.

Wash., Seattle—Bd. Pub. Wks., Apr. 30, grading, etc. 82,000 cu.yd. Lakeside Ave., South, et al., from Goetz & Brennan, Seaboard Bldg., $78,004.

Calif., Riverside—Riverside Co., concrete widening 17.3 mi. road between Whitewater and Edom, from Matich Bros., Elsinore, $103,395. Engrs. est. $110,175.

Calif., San Diego—Common Council, May 3, from G. R. Daley, 4430 Boundary St., improving 1st and Redwood Sts., 424 cu.yd. excav. at $1.40 per cu.yd., 242,784 sq.ft. 1½ in. asphaltic concrete wearing surface on 5 in. concrete paving $0.229, 9,305 sq.ft. 1½ in. asphaltic concrete wearing surface on 2½ in. asphalt concrete paving $0.16, 5,066 sq.ft. concrete sidewalk $0.22, and 1,059 lin.ft. concrete curbing $0.65, total $102,875. Noted Mar. 18.

Contracts Awarded

Mass., Roxbury. (Boston P. O.)—Sheet asphalt paving Huntington Ave., to J. F. Kennedy Constr. Co., 6 Beacon St., $57,217.

Mass., Roxbury (Boston P. O.)—Dept. Pub. Wks., Boston, recut granite block paving Blue Hill Ave., here, to A. De Stefano, 10 Everett St., East Boston, $38,218. Noted Apr. 29.

Connecticut—J. A. Maconald, comr. State Hy. Dept., Hartford, grading and paving at Bishop's Crossing in Plainfield, to J. Lorrenzi, Leominster, Mass., about $78,000. Noted Apr. 15.

New York — A. W. Brandt, comr. Highways, Albany, **(e. e. means engineers estimate)** improving 6.79 mi. Highway 8246, Kirkland-Rome Highway, Oneida Co., to Dale Eng. Co., 404 Court St., Utica, $279,654 e.e. $341,469; 4.02 mi. Repair Contr. 3144, Highway Contr. 5149, Peekskill-Fishkill Highway, Putnam Co., to J. Arborio, 59 Center St., New Haven, Conn., $274,667 e.e. $356,095; 4.23 mi. Highway 1730, LeRoy-Brockport Highway, Part 3, Genessee Co., to H. W. Patterson, Hornell, $147,906 e.e. $197,181; 0.84 mi. Repair Contr. 1,500, Highway 5,118, Holley-Albion Highway, Part 2, Orleans Co., and 5.73 mi. Highway 8,245, Corfu-Indian Falls: Indian Falls-Alabama Highway, Genessee Co., to W. J. Gallagher, Medina, $34,216 and $212,543 respectively, e.e. $48,480 and $283,873 respectively; 3.36 mi. Repair Contr. 1,507, Highway 893, Bliss-Smith Corners Highway, Wyoming Co., to P. N. Carll, 123 Fulton St., Olean, $143,323 e.e. $182,384; 5.61 mi. Repair Contr. 3145, Highway 803, Hudson Falls-Fort Ann Highway, Washington Co., to New York Willite Paving Corp., Rochester, $205,480 e.e. $290,-272; 1.26 mi. Repair Contr. 1,508, Highway 543, Johnstown-Broadalbin, Part 2, Fulton Co., to J. B. Dower, Ballston Spa., $66,774 e.e. $75,153; 2.66 mi. Repair Contr. 1,503 Highway 681-682 Ithaca-Dryden Highway Parts 1 and 2 Tompkins Co., to Bolton, Suits & Bolton, Watkins Glen, $94,248 e.e. $115,050. Grand total $1,458,811. Noted Apr. 22.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to W. P. Macdonald Constr. Co., Lawrence St., Flushing, repaving on existing concrete Jackson Ave., $1,933, asphalt block repaving Franklin St., etc., $36,634, Jamaica Ave. from Main to Sanford Sts. $21,360, and sheet asphalt repaving Sutphin Blvd. $92,-660; to Eastern Contg. Co., 367 Fulton St., Brooklyn, granite block repaving Myrtle Ave. to Cooper Ave., $221,510. Grand total $374,097. Noted May 13.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sheet asphalt on concrete paving Leland Ave. and Chislom St., to Asphalt Constr. Co., 208 Bway., $69,963 and $8,444 respectively; asphalt block on concrete repaving La Fountaine Ave., to L. De Minna, 2366 Lorillard Pl., $55,069; and granite block on concrete repaving East 152nd St., from St. George Paving Co., 90 West St., $30,582. Grand total $164,058. Noted May 13.

N. Y., New York—J. Miller, pres. Manhattan Boro, Boro Hall, granite block repaving Greenwich St., to J. Meehan & Son, Inc., 90 West St., $48,444; sheet asphalt repaving Stanton St., to Highway Impvt. & Repair Co., 50 Church St., $126,571, 42nd St. to W. J. Fitzgerald, 547 West 45th St. $72,899, and Madison Ave., to Interboro Asphalt Co., 2306 Creston Ave., $104,899. Grand total $352,813. Noted May 6.

N. Y., St. George—J. A. Lynch, pres. Queens Boro, Queens Subway Bldg., concrete sidewalks on New Dorp Lane, Hylan Blvd., etc., to F. J. Zarelli, 465 Cary Ave., West New Brighton, $4,263; bituminous concrete repaving Targee St. and Castleton Ave., to J. E. Donovan Paving Co., 2205 Richmond Terrace, Port Richmond, $37,988. Noted May 6.

New Jersey—State Hy. Dept., Trenton, grading and concrete paving 10 mi. White Horse Pike between Absecon and Egg Harbor, Atlantic Co., to Comerford Constr. Co., 125 South 5th St., Phila., Pa., $313,044; and 2.75 mi. road from Belvidere to Buttsville, Warren Co., to F. H. Smith, Hackettstown, $158,440. Noted May 13.

New Jersey—State Hy. Comn., Trenton, grading and rein.-con. paving 3 mi. Route 9 from Perryville to Clinton, Hunterdon Co., to H. Shapiro Constr. Co., Rutherford, $234,380. Noted May 20.

N. J., Elizabeth—Union Co., Court House, grading and sheet asphalt on concrete paving 8,350 lin.ft. Kenilworth Blvd. from 20th St. to Springfield Ave., to Weldon Contg. Co., Broad St., Westfield, $97,889. Noted Apr. 29.

N. J., Irvington (br. Newark)—Bd. Town Comrs., Town Hall, to A. J. Milmore, 83 Littleton Ave., Newark, grading, curbing and 6 in. rein.-con. paving Chapman St. $11,344, Cottage Pl. $5,652, Fuller Pl. $19,-274, Brookside Ave. $16,137, and Wilson Pl. $7,893; to J. Dorer, Irvington, Kuna Terrace, $6,215, and Osbourne Pl. $5,494. Grand total $72,009.

N. J., New Brunswick — Middlesex Co., rein.-con. paving 2 mi. road from Rahway to Woodbridge, and 0.75 mi. road from Woodbridge to Iselin, to Liddle & Pfeifer, 149 New Brunswick Ave., Perth Amboy, $80,317 and $30,506 respectively. Noted Apr. 15.

N. J., Oakhurst—Ocean Twp., G. E. Van Note, chn. concrete paving 0.036 mi. Edgmont Ave., Lock Arbour, to E. T. McNiery Bradley Beach, $26,943. Noted Mar. 18.

N. J., Woodbridge—Middlesex Co. (New Brunswick) paving ¾ mi. Green St., here, to Liddle & Pfeiffer, 149 New Brunswick Ave., Perth Amboy, $30,506.

Streets and Roads (Continued)

Pennsylvania—State Hy. Dept., Harrisburg, **(A. means Application and R. means Route)**, rein.-con. paving, etc. 30,562 sq.yd. A. 3656-57, Fayette Co., to Pratt & Moore Inc., Hollidaysburg $127,284, 55,663 sq.yd. R. 492, A. 3543, York Co., to W. Grant Raub Co., Red Lion $227,355, 45,195 sq.yd. R. 197, A. 3372, Sect. 2, Berks Co., to M. Staub, Reading $210,693, 8,391 sq.yd. A. 3940, York Co., to York Eng. & Constr. Co., York $36,480, 44,048 sq.yd. R. 366, A. 3059, Fayette Co., to Payne-Yost Constr. Co., Pittsburgh $216,688, and 5,378 sq.yd. R. 478, A. 3963, Tioga Co., to A. W. Hinaman, Williamsport $30,477. Grand total $653,977. Noted Apr. 1.

Pa., Phila. — Dept. Pub. Wks., Bureau of Highways, to Curtis Bros., State and Unruh Rds., grading Bingham, Claridge, Cottman, Dungan, Faunce, Lawndale, Montour, Oakmont and Tabor Sts. $22,743, to E. Garlick, Sr., 2948 Venango St., Church St. $1,001, and Frontenac St. $475, also to F. Mark Contg. Co., North and Winghocking Sts., E. Emerson, Hoffnagle and Ryers Sts. $9,629; to Eastern Paving Co., Penn Bldg., asphalt paving (assessment work) Graham St. $7,783, to Union Paving Co., 30th and Locust Sts., Johnston St. $9,590, Nedro St. $10,650, and furnishing asphalt paving mixtures $31,625; to Barber Asphalt Co., 239 North 30th St., asphalt paving Salmon St. $8,569; to C. G. Centrone, Bailey Bldg., asphalt repaving Lippincott, Martha, Stella and Thompson Sts. $33,782; to Municipal Paving Co., 702 Catharine St., redressed granite block repaving Berks St. $22,677, to United Paving Co., Real Estate Trust Bldg., Coral and Hope Sts. $3,616, to Acchione & Caruso Paving Co., 804 South 12th St., Coral St. $12,981, to Baton Constr. Co., 1713 Sansom St., Filbert, Broad and Market Sts. (track area), $87,385, and to J. Ciccone, 5724 Westminister St., Market St. $1,980; to Henry & White, 6703 Torresdale St., hiring motor truck for hauling cinders and asphalt $1,250; to Atlantic Refining Co., 260 South Broad St., Specifications D and A bituminous materials $13,750. Grand total $301,772.

Pa., Pittsburgh—City, **(e. e. means engrs. est)**—To Booth & Flinn, Ltd., Forbes St., grading and paving, etc. Perchment St., $27,624 e.e. $30,000, Glenarm Ave., $30,343 e.e. $35,000, and Troy Hill Rd., $36,460 e.e. $40,000. Grand total $94,427. Noted Jan. 21.

Md., Baltimore — Bd. Awards, concrete paving 9,840 sq.yd. Contr. 338, to H. H. Hershberger, 3723 Reistertown Rd., $26,155. Noted May 13.

W. Va., Charleston — Rein.-con. paving Court St. and Highland Dr., to Brown & Floyd, Lowenstein Bldg., Charleston, $25,196.

North Carolina—State Hy. Comn., Raleigh, clearing, grading and concrete paving 7.45 mi. Project 1992, Wilson Co., to F. J. McGuire, Bankers Trust Bldg., Norfolk, Va., $228,641.

South Carolina — State Hy. Dept., Columbus, topsoiling 5.2 mi. Route 22, State Project 627-B, Fairfield Co., to W. B. Boyle Co., Sumter, $69,315. Noted Apr. 29.

Fla., Kissimmee—Osceola Co., constructing Kissimmee Park, Hilliard Island, Lake Wilson, Partin, Narcoossee, Orlando, Hickory Tree, Lake Ave., Lee St., etc., to Gregory & Wilson, West Palm Beach, $818,221; Pleasant Hill Rd., to Pryor & Brown, Haines City, $216,721; and Kenansville Rd., to Steed & Walker, Okeechobee, $565,058. Grand total $1,600,000. Noted May 6.

Ala., Birmingham — City Comn. **(e. e. means engineers estimate)**, to Independent Paving Co., Amer. Trust Bldg., asphalt paving 6 blocks 1st Ave. S., 60 ft., $15,609 e. e. $32,200, and 6 blocks 26th St., 60 ft., $25,715 e. e. $30,300, to A. T. Mehaffey, 7836 Underwood Ave., 1 block South 16th St., 40 ft., $1,479 e. e. $2,100, to Morgan-Hill Paving Co., Woodard Bldg., 12 blocks Pike Rd. and 31st St. (Ensley), 40 ft., $46,629 e. e. $51,800, to D. A. Burton, 1st Natl. Bank Bldg., 3 blocks 29th St., Ave. Z. and Cullam Ave., 40 ft., $11,545 e. e. $16,000, to H. N. Bowdry, Alabama Power Co. Bldg., 4 blocks Montrose Pl., Berwick and Carlisle Rds., 40 ft., $14,302 e. e. $15,250, to Federal Asphalt Paving Co., Amer. Trust Bldg., 2 blocks 6th Way (Ensley), 40 ft., $3,670 e. e. $4,200, to J. Hamm, 1st Natl. Bank Bldg., 6 blocks Anniston Ave., 23rd and 24th Sts. (Ensley), 60 ft., $23,174 e. e. $25,500, 5 blocks 20th Pl. (Ensley), 40 ft., $16,409 e. e. $25,550, grading and asphalt paving 4 blocks Avenue Y, 40 ft., $16,158 e. e. $25,350; to Southern Roads Co., 104 North 17th St., asphalt paving 3 blocks 12th St., 40 ft., $7,135 e. e. $10,000, and building low level concrete drives beside 24th St. viaduct, 30 ft., $9,089 e. e. $10,000. Grand total $190,914. Noted Mar. 11, 18, 25 and Apr. 29.

Miss., Fayette—Jefferson Co., improving 2.3 mi. Federal Aid Project 84-A, 15,771 cu. yd. excav., 7,880 cu.yd. borrow, 4,922 cu.yd. gravel 1 mi. haul, 30,080 units overhaul, etc., to W. H. Groome & Son, McNair, $27,214. Noted Mar. 25.

Miss., Hattiesburg—Bd. Supervs. Forrest Co., 6 in. concrete paving 59,357 sq.yd. Federal Aid Projects 69-A, 70-A and 73-B, to S. K. Jones, Cotton Exch. Bldg., Memphis, Tenn., $198,000; and brick on gravel paving 0.5 mi. Edwards St., to E. A. Finch, Hattiesburg, $24,700. Noted Apr. 22.

La., Baton Rouge — Grading, curbing, guttering, sidewalks, sewers and 2 in. warrenite bitulithic on concrete paving 14,400 sq.yd. various streets, to R. G. Lassiter & Co., Baton Rouge, approximately $54,000.

Tenn., Nashville—City will oil and gravel surface Chestnut St. from 8th Ave. to Louisville & Nashville R.R. tracks, Humphries St. from 4th Ave. to Chestnut St., Arthington Ave. from Elliot to 10th Aves., 9th Ave. from Glenn to Bradford Aves., and Waldkirch Ave. from 9th to 10th Aves., by day labor under direction Superintendent Streets. To exceed $25,000. H. E. Howse, mayor.

Ky., Murray—Grading, curbing, guttering and sheet asphalt on concrete paving 29,000 sq.yd. East Main, 4th, 5th and Poplar Sts., to Federal Asphalt Paving Co., 219 High St., Hamilton, O. $86,415. Engrs. est. $95,421.

O., Cincinnati — Hamilton Co., to J. L. Radabaugh, Montgomery Pk., improving Camargo Rd. from Maderia to Allendale, 13,000 cu.yd. grading at $0.50 per cu.yd., 22,575 sq.yd. concrete paving $2.70 per etc., total $83,808. Engrs. est. $96,516. Noted May 6.

O., Cincinnati — Hamilton Co., grading and concrete repaving 12,000 sq.yd. North Bend Rd. from Burnt School House to Yogel Rds., to Gradison Constr. Co., 1st Natl. Bank Bldg., $39,910. Engrs. est. $41,721.

O., Columbus—Franklin Co., waterbound macadam paving, etc. 0.51 mi. Central Ave., and 0.566 mi. 1st Ave., to Edwards Constr. Co., 515 Carpenter St., $10,489 and $11,556 respectively, and 1.058 mi. Coffman Rd., to D. C. Jones, Worthington, $14,928, all foregoing 16 ft. wide; also 0.53 mi. Harper Rd. and 0.106 mi. Deshler Ave., 20 ft., to Kinnear & Barricklow, Central Bank Bldg., $16,252 and $3,748 respectively. Grand total $56,973. Noted Apr. 22.

O., Marion — Marion Co., improving 2.2 mi. Mt. Olive Rd., to S. M. Wooley, Marion, $27,873 engrs. est. $30,000; and 3.4 mi. Upper Sandusky Rd., to Kiffin Thompson Contg. Co., Marion, $36,861 engrs. est. $36,000, both 16 ft. Noted May 13.

O., Shaker Heights (mail Cleveland) — Bd. Comrs. Cuyahoga Co. (Cleveland), sheet asphalt paving Townley and Tolland Rds., here, to Rieley Bros., The Arcade, Cleveland, $22,909 and $22,466 respectively.

Ind., Anderson — Madison Co., grading, curbing, walks and paving Hugh Hill Rd., West 22nd St., to G. B. McKown Co., Noblesville, $68,577.

Mich., Caro—Tuscola Co., graveling 6.65 mi. road from F. A. 90 to Wisner Corners, to A. Barnes, Cass City, $68,127.

Mich., Detroit—To Detroit Asphalt Paving Co., 909 Transportation Bldg., sheet asphalt paving 7,680 sq.yd. Harper Ave. $28,847, 5,550 sq.yd. Kentucuky Ave. $22,546, 4,150 sq.yd. Guthrie Ave. $17,303, 3,380 sq.yd. Hildale Ave. $14,671, 3,650 sq.yd. Renville Ave. $15,476, 6,500 sq.yd. Carbondale Ave. $27,450, 2,480 sq.yd. Strassburg Ave. $10,800, 2,440 sq.yd. Lamont Ave. $10,596, 2,025 sq.yd. Newhall St. $9,003, 11,300 sq.yd. Turner Ave. $46,612, and 16,380 sq.yd. Lynch Rd., $67,338; to M. R. Hanna Co., 2700 Six Mile Rd., 2,390 sq.yd. Indiana Ave. $9,875, 8,070 sq.yd. Lumkin Ave. 33,304, 8,810 sq.yd. Andover Ave. $35,935, and 5,650 sq.yd. Wark Ave. $23,239; to Cleveland Trinidad Paving Co., 402 Hammond Bldg., 2,850 sq.yd. Washburn Ave. $11,265, 4,370 sq.yd. Globe Ave. $18,543, and 2,660 sq.yd. Ilene Ave. $11,091. Grand total $403,894.

Mich., Grand Rapids—Sheet asphalt paving 4th St. from Stocking to Valley Aves., to W. G. O'Connor, Grand Rapids, $30,433.

Mich., Grosse Pointe Farms—Concrete curbing and 8 in. one course concrete paving 27,000 sq.yd. Cloverly and Lothrop Rds., Mt. Vernon, Madison, Manor, Fairbairn, Calvin and Webster Aves., to G. R. Cooke, Penobscot Bldg., Detroit, $82,000.

Mich., Pontiac — Oakland Co., concrete paving 4.5 mi. Monnier Rd. A. D. 88, 20 ft., to R. D. Baker Co., 1454 Penobscot Bldg., Detroit, $339,219.

Mich., Port Huron—St. Clair Co., graveling 2 mi. Hart Rd., to J. W. Baker & Co., Pt. Huron, $49,759; 6 mi. Townline Rd. to Marine City, to H. Campbell Co., Pt. Huron, $95,010; and 9 mi. Nye Hill Rd., to Peacock Constr. Co., Yale, $138,686. Grand total $283,475.

Mich., Saginaw West Side—Saginaw Co., concrete paving 4 mi. A. D. Rd. 62, and 1.54 mi. T. L. 46 and 24, to T. McNally, Saginaw, $84,162 and $39,476 respectively, and macadam paving 4.5 mi. A. D. Rd. 108, to J. W. Ederer & Co., Saginaw, $73,500. Noted Apr. 22.

Ill., Belleville—Bd. Local Impvts., grading, curbing and rein.-con. paving 2,700 sq. yd. Virginia St., 2,440 sq.yd. North Pennsylvania St., 3,160 sq.yd. North 4th St. and 10,920 sq.yd. Washington St., to Hoskins Bros. Constr. Co., 222 West B St., $36,676.

Ill., Chicago—H. E. Wallace, Ill. Sanitary Dist. of Chicago, 910 South Michigan Ave., approaches to bascule bridge over main drainage channel Sanitary Dist. of Chicago at Cicero Ave., to Contg. Material Co., 42 East Pearson St., $103,070. Noted Apr. 29.

Ill., Chicago—Bd. Local Impvts., Room 207, City Hall, grading and 7 in. concrete paving alleys between East 38th St. and East Pershing Rd., between Ellis Ave. and Drexel Blvd., between East 53rd and East 54th Sts., and between West 53rd and West 54th Sts., to J. Dillon & Co., 2953 Halsted St.; alley between West Crawford and North Hamilton Aves., West Madison Ave. and West Washington Blvd., to P. O'Brien, 4 North Cicero Ave.; alley between North Rockwell St., Bloomingdale, Wabansia and North Talman Aves., to R. R. Anderson Co., 625 North Kedzie Ave.; curbing, guttering and asphalt on 6 in. concrete paving Avenue F from East 106th to East 108th Sts., grading, curbing, guttering and 2 in. asphalt on 8 in. concrete, South State St. from East 68th to West 75th St., grading, curbing, guttering and asphalt on 6 in. concrete paving Lowe Ave. from West 111th to West 112th Sts., Lowe Ave. from West 113th to West 115th Sts., South Union Ave. from West 111th to West 115th Sts., Emerald Ave. from West 111th to West 112th Sts., West 112th St. from Wallace St. to Emerald Ave., West 113th St. from Wallace St. to Union Ave., West 114th St. from Wallace St. to South Union Ave., to Amer. Asphalt Paving Co., 133 West Washington St., Christian Ave. from Bryn Mawr to Balmoral Aves., to J. V. McCarthy Co., 77 West Washington St., grading, curbing, guttering and 6 in. concrete paving Crystal St. and Potomac Ave. from North Laramie to North Long Aves., to J. A. Sackley Co., 4608 Belmont Ave.; grading, curbing, guttering and asphalt on 6 in. concrete paving Langley Ave. from East 60th to East 61st Sts., to R. F. Conway Co., 844 Rush St.; grading, curbing, guttering and 2 in. asphaltic concrete on 6 in. concrete paving North Lorel Ave. from Potomac Ave. to Hirsch St., to White Paving Co., 1735 Fullerton St.; grading, curbing, guttering and 6 in. concrete paving Walden Parkway from West 98th to West 99th Sts., to Ready & Callaghan Coal Co., 133 West Washington St.; grading, curbing, guttering and 8 in. concrete paving South Sangamon St. from West 87th to West 88th Sts., to Smith & Brown, 111 West Washington St., West 34th St. from a line 20 ft. to point 522 ft. west of South Western Ave., to J. A. Ross & Co., 4561 Armitage St., and South Wood St. from right-of-way of Wabash R.R. to West 76th St., to Central Paving Co., 179 West Washington St. Noted Mar. 25th, April 1 and 22.

Wis., Kaukauna—L. C. Wolf, city clk., vibrolithic concrete paving 11,577 sq.yd. Depot St., to J. McCarthy Constr. Co., Kaukauna, $37,586. Noted Apr. 29.

Wis., Milwaukee—Dept. Pub. Wks., to F. Doherty Co., 37th and Fond du Lac Sts., grading Auer Ave. $5,911, to Froeming Bros., 1326 Humboldt Ave. Bonny Pl. $5,647, and 38th St. $5,119, to Bartel-Maurer Co., 924 Muskego Ave. $14,631, to A. Schraeder, 1009 Lake Blvd., 44th St. $10,095, to R. H. Gumz, 831 13th Ave., 59th St. $3,355, and 36th St. $10,634; to A. E. Retzlaff, 868 Island Ave., vibrolithic concrete paving 51st St. $6,862, 57th St. $10,389, 60th St. $4,817, and 12th St. $2,074, to Reid & Mahlberg, 818 Lake Blvd., Galena St. $8,300, to J. Bluhm & Son, 1298 Achilles Pl., 40th St. $9,601, and Hadley St. $7,576, to Milwaukee General Constr. Co., 427 Mitchell St., 34th St. $3,922, and 14th Ave. $3,180; also to Gumz & Switalski, 831 13th Ave., granite block paving Jackson St. $33,849. Grand total $145,692.

Wis., Milwaukee—Dept. Pub. Wks., concrete paving 2 alleys, to Parkinson Constr. Co., 322 27th St., $4,646; 10 alleys, to F. W. Blodgett, 521 Newton Ave., $41,746; 4 alleys, to Bodemann Constr. Co., 691 48th St., $24,582; and 1 alley, to J. Bluhm & Son, 1298 Achilles Pl., $1,517. Grand total $72,491.

Wis., Wauwatosa — Bd. Pub. Wks., A. Brigham, secy., to Jacobus & Winding Con-

Streets and Roads (Continued)

crete Constr. Co., 1 State St., improving Stickney and Gridley Aves., Pleasant and Albert Sts., 20,200 cu.yd. grading at $0.45 and $0.60 per cu.yd., and 18,510 sq.yd. paving $2.18 per sq.yd. Noted Apr. 22.

Ia., Ames—Curbing, guttering and concrete paving 70,000 sq.yd. various streets, to C. F. Lytle Constr. Co., 105 6th St., Sioux City, $161,000. Noted Apr. 29.

Ia., Cedar Rapids—Auditor Linn Co., to T. N. Carnall, Oelwein, improving 10.5 mi. Roads 2 and 6, 16,125 cu.yd. gravel 1 mi. haul at $0.379 per cu.yd., and 98,994 units overhaul $0.079. Noted Apr. 22.

Ia., Ft. Madison—Auditor Lee Co., to M. T. McGuire, Algona, improving Primary Project S-63, 19,096 cu.yd. excav. at $0.22 per cu.yd., 100 cu.yd. loose rock $1.50, etc., Project S-64, 35,569 cu.yd. excav. $0.223, etc., Project S-65, 52,039 cu.yd. excav. $0.228, etc., and Project 66, 40,173 cu.yd. excav. $0.214, etc. Noted Apr. 15.

Ia., Ottumwa—E. J. Chambers, city clk., grading, curbing and 6 in. rein.-con. paving 35,000 sq.yd. Jefferson, Lincoln, Ash, Kruger, Jay, Mechanic, Haynes, East 2nd, Birch, Hackberry and Vine Sts., to Western States Paving Co., Davenport.

Ia., Storm Lake—Auditor Buena Vista Co., to R. C. Hart, Spencer, improving Primary-Secondary Project S-77, 23,667 cu. yd. excav. at $0.263 per cu.yd., and 10,309 cu.yd. excav. $0.29; to J. Barnes, Newell, 13,577 cu.yd. excav. $0.24, etc., and to J. W. Ault, Ft. Dodge, 21,845 cu.yd. excav. $0.29 and $0.30, 125 cu.yd. loose rock excav. $0.75. Noted Mar. 15.

Ia., Toledo — Auditor Tama Co., to T. Mickle, Newton, improving 6.809 mi. Federal Aid Project 257, 116,491 cu.yd. excav. at $0.277 per cu.yd., 100 cu.yd. loose rock $1, 100 cu.yd. solid rock $2.50, clearing right of way $1,575, etc. Noted Apr. 22.

Minnesota—State Hy. Dept., St. Paul, **(F. A. P. means Federal Aid Project and S. P. means State Project)**, grading, etc. 358,000 cu.yd. S.P. 52-21, F.A.P. 381, to J. J. and M. S. Mergens, 400 Temple Court Bldg., Minneapolis, $131,088; graveling, etc. 13.9 mi. S.P. 4-29, Sect. 2, F.A.P. 342, to H. Miller, Lake Crystal $21,395, and 12.9 mi. S.P. 4-29, Sect. 3, F.A.P. 343, to S. J. Reader, 209 Kasota Bldg., Minneapolis $21,-394. Grand total $173,877. Noted Apr. 8.

Minn., Marshall — R. D. Houdersheldt, aud. Lyon Co., May 3, grading, etc. approximately 127,000 cu.yd. Job 2609, State Aid Rd. 3, to D. Ryan, Marshall, $29,-726. Engrs. est. $30,000. Noted Apr. 22.

Minn., Minneapolis—A. E. Erickson, aud. Hennipen Co., widening and asphaltic concrete resurfacing 4 mi. County Highway 7, to Hanlon & Okes, 1501 Merchants Natl. Bank Bldg., St. Paul, $78,500. Noted May 6.

Kan., Kansas City — Clerk Wyandotte Co., grading, curbing and 7 in. concrete paving 17,737 sq.yd. roads, to Sargent Constr. Co., Leavenworth, $35,500.

Kan., Winfield — Cowley Co., improving 3.444 mi. Sect. C and 5.402 mi. Sect. D Federal Aid Project 231, to Gallamore Constr. Co., Cushing, Okla., $90,192 and $139,574 respectively. Noted Mar. 11.

Neb., Holdredge—To Roberts Constr. Co., 1st. Natl. Bank Bldg., Lincoln, improving various streets, 4,700 yd. grading at $0.40 per yd., 13,270 yd. 6 in. rein.-con. paving $2, 8,200 ft. curbing and guttering $0.78, etc., total $36,508.

Wyoming — State Hy. Dept., Cheyenne, grading, surfacing and 2 pile trestles on 7.3 mi. Granger-Lyman Rd., Federal Aid Project 180-B, Uinta Co., to Wickham, Bros. & Schwieger, Billings, Mont., $54,619. Engrs. est $63,000. Noted Apr. 29.

Montana—State Hy. Dept., Helena, grading, gravel surfacing, etc. 93,000 cu.yd. Blackfeet Highway, Federal Aid Project 226-A and 227-A B, Glacier Co., to W. E. Applegate, 225 South Washington St., Butte, $551,628; 0.2 mi. Billings East Highway, Federal Aid Project 230 and 187-B, Yellowstone Co., to J. M. Carter, Billings, $15,011; 8,675 cu.yd. Y.G.B. Line and Yellowstone Trail, to Lewistown Constr. Co., Lewistown $13,186, and 8,000 cu.yd. Yellowstone Trail, to Lyon & Price, Spokane, Wash. $11,768, both in Park Co. Grand total $591,593. Noted Apr. 8.

Mo., Kansas City—Jackson Co., to W. A. Ross, Ry. Exch. Bldg., improving 85th St., 20,257 sq.yd. concrete paving at $1.89 per sq.yd., 500 cu.yd. rock excav. $2, 1,000 cu.yd. earth excav. $0.70, etc., total $41,451.

Mo., Mexico—Grading, curbing and 6 in. rein.-con. paving approximately 12,000 sq.yd. Wade St. and Western Ave., etc. to Hannibal Constr. Co., Hannibal, $36,972. Noted May 13.

Mo., St. Louis—W. and C. Brinkop, Jr., 3621 South Grand Blvd., grading, sidewalks, etc., on Carondelet Park Terrace, to W. H. Smith-Nelson Cunliff Co., 110 North 7th St. Engrs. est. $35,000 upwards. Noted Dec. 17.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, **(C. B. means City Block)**, to Eyermann Constr. Co., 1216 South Grand Blvd., concrete paving 1,455 sq.yd. alleys in C. B. 5542, $4,148; to A. Lewald, 1219 Amherst Pl., 1,545 sq.yd. alley in C. B. 5302, $4,373; to Parkinson Bros. Constr. Co., 3237 Carter Ave., 1,300 sq.yd. C. B. 5544, $4,195, 1,335 sq.yd. in C. B. 5529, $4,454, and 1,330 sq.yd. C. B. 5688 $3,528; to Schweitzer Constr. Co., 3821 Garfield Ave., 1,025 sq. yd. in C. B. 2986 $2,851, 625 sq.yd. C. B. 3783, $1,624, 1,635 sq.yd. C. B. 4053-B $4,436, 1,315 sq.yd. C. B. 4058-E, $3,931, 1,300 sq.yd. C. B. 4500-A, $3,616, 195 sq.yd. C. B. 4849-W, $553, 1,205 sq.yd. C. B. 4942, $3,314, 1,090 sq.yd. C. B. 4974, $2,982, 1,335 sq.yd. C. B. 5124, $3,730, 1,195 sq.yd. C. B. 5132, $3,212, 1,195 sq.yd. C. B. 5134, $2,976, 1,770 sq.yd. C. B. 5282, $4,615, 1,325 sq.yd. C. B. 5239, $3,194, and 670 sq.yd. C. B. 5429-C, $1,815. Grand total $63,547. Engrs. est. $69,860. Noted Mar. 18.

Mo., St. Louis—City will asphalt resurface, etc., North and South Bway., $52,000; Washington St. between Sarah and Vandeventer Sts., $15,600; Skinker Blvd. between Arundel and Clayton Sts., $9,550, Gravois St. between Russell and 18th Sts., $2,200; 16th St. between Clark and Market Sts., $9,490; Walls St. between Union and Arlington Sts.,$6,355; St. Louis Ave. between 15th and Jefferson Sts., $32,325; St. Louis St. between Jefferson and Glasgow Sts., $14,360; Waterman St. between Kingshighway and Lake St., $9,970; Waterman St. between Lake and Union Sts., $8,460; North Market St. between Kingshighway and Union St., $9,500; Osceola St. between Virginia and Grand Sts., $12,645; and St. Louis St. between Glasgow and Grand Sts., $7,050. Work will be done by day labor. Grand total $189,505.

Mo., Stanberry—City Clerk, grading, concrete paving, etc., 5,513 sq.yd. State Highway 4 between Brown Ave. and Elm St., to C. H. Atkinson Paving Co., Stewartsville. Noted Apr. 22.

Arkansas—State Hy. Dept., Little Rock, improving 18.38 mi. El Dorado-Magnolia Rd., Federal Aid Project 232-B, Union Co., 122.35 acres clearing and grubbing, 147,-267 cu.yd. excav., 6,950 ft. untreated and 121,982 ft. treated bridge timber, 47,159 lb. reinforcing, etc., to Tarrant & Miles, 406 East Black St., El Dorado, $80,109.

Arkansas—State Hy. Dept., Little Rock, grading, gravel surfacing, etc., 8 mi. Magnolia Village Rd., Federal Aid Project 232-A, Columbia Co., and 8.3 mi. Camden-Stephens Rd., Federal Aid Project 223-B, Ouachita Co., 34.55 acres clearing and grubbing, 86,352 cu.yd. excav., etc., to J. G. Newkirk, Prescott, $11,552 and $48,213 respectively. Noted Apr. 22.

Tex., Abilene — Warrenite bitulithic on concrete paving 6 blocks North 5th St. from Pine to Mesquite Sts., 35 ft., to West Texas Constr. Co., Abilene, $2.91 per yd.

Tex., Baird—Callahan Co., grading and bridging 3.206 mi. Highway 23, State Aid Project 655-C, to C. H. Van Eman, Cisco, $55,114. Noted Apr. 8.

Tex., Baird—V. G. Gilbert, judge Callahan Co., clearing, grubbing, bridging and concrete paving, etc. 32.06 mi. Highway 23, State Aid Project 655-C, to C. H. Van Eman, Cisco, $50,104, engrs. est. $66,000; and surfacing with sledged stone and bituminous topping alternates on 2½ in. brick on macadam base, on concrete base and for bates type concrete paving 8.39 mi. Highway 1, Federal Project 52-E, Unit 2, to McClung Constr. Co., 1309 F. & M. Bank Bldg., Ft. Worth, $136,376. Noted May 6.

Tex., Galveston—Curbing, sidewalks, and brick paving Sea Wall Blvd. from 25th to 37th Sts., from W. A. Kelso & Co., 2220 C St., $40,507; and permanent paving Ave. A from 40th to 46th Sts., to H. J. Hetkes, 3113 R ½ St., $34,960. Noted Apr. 15.

Okla., Earlsboro—Pottawatomie Co., improving 5 mi. road north of here, 36,100 cu.yd. earth and 4,300 cu.yd. rock excav., 6.2 tons reinforcing, 52,400 sq.yd. gravel top surfacing, etc., to Ellis & Lewis, Muskogee, $28,461. Engrs. est. $35,000.

Okla., Norman—For 5 in. vibrolithic paving 11,800 sq.yd. various streets, to E. R. Tibbetts, Norman, $31,800.

Okla., Okemah — Grading and concrete paving 10,800 sq.yd. 2 alleys, 9th and 10th Sts., to Park & Moran, 210 South Seminole St., Okmulgee, $31,389. Engrs. est. $34,770.

Okla., Ponca City—Grading, curbing and vertical fibre brick paving 7,760 sq.yd. South 4th and North Aves., to R. H. Baldwin, 109 East Grand St., $35,844. Engrs. est. $36,332. Noted Apr. 29.

Okla., Pryor—T. J. Harrison, 6 in. concrete paving 20,187 sq.yd. various streets, to Hanson & Pearce, Blackwell, approximately $67,000. Noted Apr. 15.

Colo., Denver—Dept. Impvts. & Parks, to New Mexico Constr. Co., 4015 Galapago St., asphaltic concrete paving East Denver Paving Dist. 20, $39,721, and Paving Dist. 21 $38,014; to Western Paving Constr. Co., 5230 Washington St., Paving Dist. 22 $35,-502, Paving Dist. 25 $36,350, and Paving Dist. 26 $38,707. Grand total $188,294. Noted Apr. 29.

Idaho—Commissioner Pub. Wks., Boise, grading, etc., 3.377 mi. Old Oregon Trail Highway, Federal Aid Project 86-B, Canyon Co., to Morrison-Knudsen Co., Boise, $86,-506. Noted Feb. 25.

Washington—State Hy. Dept., Olympia, **(S. R. means State Rd.)**, grading, etc., 7.54 mi. S. R. 8, Yakima Co., to J. Hampshire, Lundberg Bldg., Grants Pass, Ore., $57,509; concrete paving, etc., 6.3 mi. S. R. 9, Clallam Co., to Philbrick & Nicholson, Inc., 708 Rust Bldg., Tacoma, $179,833; crushed rock surfacing, etc., 15.8 mi. S. R. 12, Lewis and Pacific Counties, to M. S. Phillips, 507-8-9 California Bldg., Tacoma, $14,638; and concrete paving, etc., 63,000 sq.yd. S. R. 2, King Co., to Miley & Fox, 2524 McDougal Ave., Everett, $163,088; also constructing substructure for Yakima River Bridge, on S. R. 3, Yakima Co., to R. A. Geary, 22 Sloan Bldg., Yakima, $17,775. Grand total $432,843. Noted Apr. 15.

Wash., Dayton — Comrs. Columbia Co., grading and surfacing 4 mi. Highway 5-B west of here, to J. A. Terteling & Sons, Moscow, Idaho, $29,946.

Wash., Seattle—King Co., paving 3.1 mi. North 110th St. et al., 20 ft., to Fiorito Bros., 3950 6th St. N. W., $92,000. Engrs. est. $100,000.

Oregon—State Hy. Dept., Salem, grading and surfacing 1.63 mi. Tillamook Wheeler Sect. Roosevelt Highway, to Lair & Co., Kelso, Wash. $48,790, and 7.7 mi. Bly Mt. Beatty Sect. Klamath Falls Lakeview Highway, to R. W. Stevenson, Mt. Vernon, Wash., $76,700; also grading 10.68 mi. Missouri Bend Alsea Mt. Sect. Alsea Highway, Benton Co., to E. L. Gates, Alsea, $47,186. Grand total $172,676.

Calif., Berkeley—City Council, grading, curbing, walks and 6 in. concrete paving, etc. Sacramento St., to J. F. Knapp, 601 East Main St., Turlock, $96,586. Noted May 13.

Calif., Eureka — Grading and vibrolithic concrete paving T and Henderson Sts., to Englehart Paving & Constr. Co., Eureka, $195,175; and Warrenite on asphaltic concrete surfacing, Harris, E and Ocean Aves., to Mercer-Fraser Co., Eureka, $218,185.

Calif., Hollister—San Benito Co., concrete widening and bituminous macadam paving 6.9 mi. roadway between San Juan and Hollister, to Granite Constr. Co., Watsonville, $133,879.

Calif., Los Angeles — Los Angeles Co., curbing, guttering and 86,316 sq.ft. 6- to 8-in. and 196,123 sq.ft. 7- to 9-in. concrete paving, etc., Santa Fe and Independence Aves., Co. Impvt. 456, to G. H. Oswald, 366 East 58th St., $172,318. Noted Jan. 28.

Calif., Monterey — To Clark & Henery Constr. Co., Chancery Bldg., San Francisco, improving portions of Hartnell St., 72,000 sq.ft. 1½ in. asphalt on 3½ in. asphaltic concrete surfacing at $0.228 per sq.ft., 10,300 sq.ft. concrete walks $0.19, 1,946 ft. concrete curbing $1.10, etc.

Calif., Pomona—Curbing, walks and 6 in. concrete paving, etc. portions 1st Locust and Hamilton Sts., to Fleming Constr. Co., 105 North Park Ave., $31,090.

Calif., Tulare—Grading and concrete and Willite asphalt paving, etc. portions I St., to Valley Paving & Constr. Co., Visalia, $34,675.

Ont., Ottawa—Sheet asphalt paving 2½ mi. Metcalfe Rd., to Standard Paving Co., Elgin St., $40,000.

Ont., Sandwich—Paving California, Peter, Laurence, Franchette, Randolph, Baby, Montcalm, Randolph, Brock, Rosedale and Indian Rds., to Premier Constr. Co., 924 Windsor Ave., Windsor $14,971, to Merlo & Ray, Ford $8,500, and to Cadwell Sand & Gravel Co., 228 Sandwich St. W., Windsor $52,000. Grand total $75,471.

Ont., Walkerville—Paving Walker and Huron St., to Premier Constr. Co., 924 Windsor Ave., Windsor, $78,748; Windermere, Victoria, Byng and Vimy Aves., to Chick Contg. Co., McDougall St., Windsor, $41,126; and paving and sewers in Turner Rd., to Merlo & Ray, Ford, $9,954 and $17,-667 respectively. Grand total $147,495. Engrs. est. $136,000.

B. C., Vancouver — Concrete paving various streets, to A. B. Palmer & Co., 736 Granville St., $54,627.

Buildings—Commercial

Proposed Work

Mass., Amherst — BANK — First Natl. Bank, E. Whitcomb, pres., plans 1 or 2 story and basement, rein.-con. steel and stone bank. $150,000 or more. Engineer and architect not selected.

Mass., Boston—STORE and OFFICE—H. O. Apthrop, 15 State St., having preliminary sketches made by J. F. Cullen, 333 Washington St., 5 story and basement, brick and limestone, 85 Newbury St. $150,000.

Mass., Cambridge (Boston P. O.) — STORE and OFFICE—E. Sage, c/o R. C. Grovestein, archt., Brattle St., having sketches made 2 story and basement, 60 x 145 ft., brick and stone, Church and Brattle Sts. $150,000.

Mass., Malden (br. Boston)—STORE and OFFICE—A. B. Morgan, Pleasant St., plans 4 story and basement, brick, Pleasant St. $150,000 or more. Engineer and architect not selected.

Mass., Springfield — OFFICE — W. F. Young Chemical Co., Temple St., having plans prepared by Wallace & Dibble, 317 Main St., 6 story and basement, 85 x 120 ft., brick and steel, Dwight and Hillman Sts.

Mass., Springfield — THEATRE, STORE and OFFICE — Goldstein Bros. Amusement Co. plans 5 or 6 story, rein.-con., brick and steel, State St. $1,000,000.

Conn., Middletown — Y.M.C.A., R. B. Brainard, pres., plans to raise $150,000-$200,000 funds, new Y.M.C.A. building. Engineer and architect not selected.

N. Y., New York — APARTMENT — W. Warren, 16 East 47th St., soon takes bids brick, steel and stone, plain foundation, 5th Ave. $1,000,000. Warren & Wetmore, archts., and H. Balcom, engr., all at 16 East 47th St. Noted Apr. 15.

N. Y., New York — APARTMENT — Haven Palace, Inc., c/o C. B. Meyers, engr. and archt., 31 Union Sq., having plans prepared 6 story, brick, steel and stone, plain foundation, West 171st St. $300,000.

N. J., Asbury Park — APARTMENT — Berkley Arms, Inc., c/o M. E. Freehof, archt., 415 Lexington Ave., New York City, takes bids about May 25th, apartment, Grand and 8th Aves., here. $350,000.

N. J., Camden—OFFICE—Galen Building Co., Inc., c/o Edwards & Green, archts., Van Russ Bldg., soon takes bids 12 story and basement, rein.-con., brick and steel, plain foundation, Bway. and Stephens Sts. $500,000.

Pa., Lansdowne—APARTMENT—Dudleigh Court Apartments, Inc., c/o O. R. Parry, archt., 1924 Sansom St., Phila., soon takes bids 3 story and basement, 110 x 120 ft., brick and steel, plain foundation, Wycombe and Linden Sts. $200,000.

Pa., Latrobe — MASONIC TEMPLE — Latrobe Masonic Assn., c/o W. S. Jones, having plans prepared by Weaver & Eberson, 200 West 27th St., New York City, N. Y., 5 story and basement, 100 x 100 ft., brick, terra cotta and steel. $200,000.

Pa., Phila.—APARTMENT—Wellington Apartments, F. H. Frazier, 19th and Walnut Sts., having plans prepared by R. Benckert, Bellevue Court Bldg., approximately 20 story, 135 x 223 ft., rein.-con., brick and steel addition, 19th and Walnut Sts.

Pa., Phila. — INSTITUTION — F. V. Nickels, archt., 15 South 21st St., soon lets contract 3 story and basement, 40 x100 ft., rein.-con., brick, stone and steel, plain foundation, Pennsylvania and Chew Sts., for St. Magdalen Asylum, Pennsylvania and Chew Sts. $150,000.

Pa., Phila.—STORE and OFFICE—Ballinger & Co., archts., 12th and Chestnut Sts., soon lets contract 4 story and basement, 142 x 158 ft., rein.-con., brick and steel, plain foundation, Chelton Ave. and Greene St., for Chelton-Greene Corp., c/o architects.

Pa., Phila.—THEATRE—L. Kapner, 213 South Broad St., having plans prepared by W. H. Lee, Schaff Bldg., 1 story, 80 x 175 ft., rein.-con., brick and steel, plain foundation, 31st and Deaming Sts. $150,000.

Pa., Pittsburgh—APARTMENT—J. M. Addys Sons, 116 South Sheridan St., having plans prepared by R. G. Dickson, 6200 Penn Ave., 15 story and basement, 44 x 100 ft., brick and tile, Sheridan Ave. $250,000.

Pa., York — OFFICE — Manufacturers Assn., of York, soon lets contract 4 story and basement, 54 x 66 ft., rein.-con., brick, stone and steel, plain foundation, North Duke and Clark Aves. $150,000. J. B. Hamme, York, archt.

Miss., Gulfport—HOTEL—Markham Hotel Co., c/o A. L. Jagoe, 1st Natl. Bank, plans 8 story, 123 x 265 ft., rein.-con., brick and stone, 23rd Ave. and 14th St. $1,000,000. J. W. Billingsley, Interstate Bank Bldg., New Orleans, La., archt.

La., Alexandria — MASONIC — Masonic Benevolent Assn., C. N. Adams, pres., soon takes bids 4 story and basement, 103 x 106 ft., rein.-con., brick and steel, 4th and Johnson Sts. $225,000. S. Stone, Jr., Co., 714 Union St., New Orleans, archts. H. J. Duncan, P. O. Box 885, Alexandria, engr.

O., Cleveland Heights (Warrensville P. O.)—APARTMENT—Euclid Overlook Co., c/o F. N. Riley, Hanna Bldg., having plans prepared by J. F. Steffens, Fidelity Mortgage Bldg., 4 story and basement, brick, steel and concrete, Cedar Rd. $600,000.

O., Columbus—Y. W. C. A., 60 South 3rd St., having plans prepared by Miller & Reeves, 20 South 3rd St., 8 story and basement, 90 x 185 ft., brick, steel, stone and concrete, incl. pool, etc., South 4th St. $600,000.

Ind., Evansville—OFFICE—H. F. Koch, 4th and Vine Sts., had plans prepared 12 story and basement, rein.-con., brick, steel and terra cotta office building. $600,000. Private plans.

Ind., Huntington — TEMPLE — Masonic Temple soon takes bids superstructure 2 story and basement, 61 x 100 ft. temple. $150,000. Contract for foundation awarded to M. W. Allen, Huntington. Noted May 6.

Ind., Sullivan—COURT HOUSE—Comrs. Sullivan Co., A. M. Carter, aud., having plans prepared by J. B. Bayard, Vincennes, rein.-con., steel and Bedford stone court house. $400,000.

Mich., Highland Park (Detroit P. O.) — CITY HALL—City having plans prepared by Burrowes & Eurich, 3633 Cass Ave., Detroit, 2 or 3 story and basement, rein.-con., brick and steel, plain foundation, Gerald Ave. $250,000.

Ill., Chicago—APARTMENT—R. B. Kurzon, archt., 30 North Dearborn St., soon lets contract 7 story, 80 x 127 ft., rein.-con., brick and stone, 426 Briar Pl., for Syndicate, c/o architect.

Ill., Chicago — HOTEL — M. Plotke, 111 West Washington St., will not construct 25 story, 175 x 186 ft. hotel, 7th St. and Wabash Ave. $5,000,000. Project abandoned. Noted Feb. 18.

Ill., Chicago—STORE and OFFICE—J. L. Guyon, 124 North Crawford Ave., will not construct 10 story, 75 x 100 ft., Washington Blvd. and Crawford Ave. Project abandoned. Noted Nov. 12.

Wis., Madison — CLUB — Fraternal Order Eagles, C. A. Kraft, pres., 23 East Main St., having plans prepared by F. L. Kronenberg, Carroll Blk., 3 story and basement, rein.-con. and steel, West Doty St. $150,000.

Wis., Milwaukee — THEATRE, etc. — Teutonia Theater Co., c/o E. Wurster, 425 East Water St., having plans prepared by S. N. Loftus, Watertown Plank Rd., 2 and 3 story, 110 x 160 ft., brick, concrete and terra cotta, plain foundation, Teutonia Ave. $350,000.

Ia., Cedar Rapids — MASONIC CONSISTORY—Consistory 2, A. A. & S. R., c/o P. Clark, master, having preliminary plans prepared 3 story and basement, 140 x 180 ft., rein.-con., brick and stone. $300,000.

Ia., Mt. Ayr — COURT HOUSE — Ringgold Co. election June 7 $150,000 bonds, new court house. Noted Nov. 26.

Neb., Omaha — THEATRE — Orpheum Circuit, c/o M. Singer, genl. mgr., 1301 Madison Park, Chicago, Ill., having plans prepared by C. W. and G. L. Rapp, 1749 Howard St., Chicago, Ill., and takes bids about June 15, 3 and 6 story and basement, 132 x 165 ft., brick and stone, 5th and Harney Sts. $1,000,000. Noted Feb. 11.

N. D., Lakota—COURT HOUSE—Nelson Co., election June 30, $150,000 bonds, court house. P. Jorgenson, aud.

Mo., Cassville—HOSPITAL—Barry Co. election Aug. 3, $150,000 bonds, hospital.

Mo., Kansas City—APARTMENTS—J. C. Nichols Companies, Commerce Bldg., had preliminary sketches made by Wilkinson & Crans, Interstate Bldg., 31 apartment buildings, on 15 acre site, 49th, Ward Parkway, Main to Wornall Rd. $5,000,000-$7,000,000.

Mo., Kansas City — APARTMENT HOTEL—Fisher Building Co., Commerce Bldg., having plans prepared by C. A. Smith, Finance Bldg., 8 story and basement, 80 x 110 ft., rein.-con., Brush Creek and Oake Sts.

Mo., Kansas City—APARTMENT—Interstate Investment Co., c/o DeFoe & Besecke, archts., 17th and Baltimore Sts., having plans prepared 8 story and basement, steel, Central St. $450,000.

Mo., Kansas City — BANK — New England Natl. Bank & Trust Co., 10th St. and Baltimore Ave., plans 10 story bank addition. $1,000,000. Engineer and architect not selected.

Mo., St. Louis — COMMUNITY HOUSE and THEATRE, etc. — German House Society, Inc., 2345 Lafayette Ave., having preliminary plans prepared rein.-con., brick and stone, on 100 x 260 ft. site, Lafayette Ave. $400,000. Private plans.

Mo., St. Joseph — THEATRE — Missouri Theatre having plans prepared by Holler Bros., 114 West 10th St., Kansas City, and takes bids about June 1, 2 story and basement, 76 x 140 ft., rein.-con., brick and terra cotta theatre, here. $250,000.

Ark., Helena — WAREHOUSE — Wharf Impvt. Dist. 1, E. M. Allen, comr., 871 Shrine Bldg., soon lets contract 100 x 200 ft., rein.-con. and brick terminal warehouse, embankment, tracks, etc. $400,000. W. F. Schultz, 871 Shrine Bldg., Memphis, engr.

Ark., Pine Bluff—MASONIC—Pine Bluff Shrine, C. H. Bollinger, 218 East 6th St., chn., soon takes bids 3 story and basement, rein.-con., tile, stucco and steel, Martin and Pine Sts. $250,000. M. Selligman, 206 Pine St., archt.

Okla., Seminole—HOTEL—Seminole Hotel Co., having preliminary plans prepared by Bailey & Alden, 1207 Colcord Bldg., 3 story and basement, 140 x 150 ft., rein.-con. and brick, plain foundation, Main St. $150,000.

Wash., Seattle—APARTMENT HOTEL—M. P. Zindorf (owner and archt.) 802 2nd Ave., preparing plans and takes bids about June 4, 4 story and basement, 140 room, brick and terra cotta, Boren and Olive Sts. $175,000.

Calif., Fresno — LODGE and STORE — B.P.O.E., 439, having plans prepared by E. J. Kump Co., Rowell Bldg., 3 story (ultimately 5 story), fireproof construction. $200,000.

Calif., Los Angeles—APARTMENT—S. Rabinovitch, c/o E. B. Rust, archt., Black Bldg., having plans prepared 5 story and basement, 108 x 144 ft., brick and steel, Catalina and 7th Sts. $250,000 or more.

Calif., San Diego — HOTEL — Syndicate having plans prepared by Parkinson & Parkinson, Title Insurance Bldg., Los Angeles, 13 story and basement, 200 x 200 ft., hotel, A St. $1,000,000.

Calif., San Francisco—APARTMENTS—Marine View Apartments, Inc., c/o G. Stimmel, 211 Crocker Bldg., plans 4 buildings, community type, $350,000-$400,000 each also having plans prepared by W. Polk & Co., 277 Pine St., 13 story and basement, apartment, $350,000, all at Chestnut St. near Larkin St.

Calif., San Francisco — APARTMENT — A. H. Larsen, archt., 447 Sutter St., preparing plans 6 story and basement, rein.-con., vicinity of Vallejo and Gough Sts. $175,000. Owner's name withheld.

Calif., San Francisco — APARTMENT — Nineteen Eighty Vallejo St., Inc., c/o C. Werner, archt., Santa Fe Bldg., having plans prepared 12 story and basement, Vallejo St. near Laguna St. $200,000.

Ont., North Bay — HOSPITAL — Queen Victoria Memorial Hospital, plans 3 story and basement, rein.-con., brick and steel addition, plain foundation, Klock Ave. $150,000. Angus & Angus, Angus Blk., archts.

Ont., Ottawa—HOTEL—Canadian Natl. Rys., 230 St. James St., Que., M. S. Gzowski, ch. engr. constr., plans 7 story, rein.-con., cut stone and steel addition to Chateau Laurier Hotel, plain foundation, Rideau St., here. $500,000.

B. C., Vancouver — HOSPITAL — Vancouver General Hospital Bd., 10th and Heathie Sts., plans hospital addition. $500,000. Engineer and architect not selected.

B. C., Vancouver — HOSPITAL — Vancouver General Hospital, 10th and Willow Sts., had estimates prepared by A. J. Bird, city archt., Holden Bldg., fireproof buildings, Hospital Grounds. $1,758,000.

Bids Desired

Me., Lewiston — HOME — St. Marie's Hospital, Sisters of Charity, taking bids 3 story and basement, brick and steel home. $300,000. Miller, Mayo & Beal, Fidelity Bldg., Portland, archts.

Mass., Attleboro — THEATRE — Eagles Home Building Assn., Inc., c/o J. A. Tuck, archt., Park Sq. Bldg., Boston, taking new bids 2 story and basement, 130 x 190 ft., brick, steel and terra cotta, Bank St., here. $175,000. Former bids rejected. Noted Apr. 15.

Mass., Boston — GARAGE — W. P. Delaney, c/o S. S. Eisenberg, archt., 46 Cornhill, taking bids 125 x 190 ft., rein.-con. and steel, Forsyth St., $150,000.

Mass., Bridgewater—THEATRE—A. A. Glick, 52 Broad St., taking new bids 1 story and basement, brick and stone theatre. $150,000. Former bids rejected. G. N. Jacobs, 4 Park St., Boston, archt. Noted May 6.

Mass., Cambridge (Boston P. O.) — APARTMENT—See "Contracts Awarded."

Mass., Jamaica Plain (Boston P. O.)—APARTMENT—See "Contracts Awarded."

Mass., Worcester — STOREHOUSE — M. J. Whittell Assn., Brussels St., taking bids 4 story and basement, 85 x 125 ft.,

Buildings—Commercial (Continued)

rein.-con. and steel, 1 Brussels St. $150,000. J. D. Leland & Co., 41 Mt. Vernon St., Boston, Archts.

Conn., Bristol—THEATRE—May 27, by Colonial Theatre, Inc., D. A. Peters, 102 South St., New Britain, 2 story and basement, 2,000 seating capacity, brick and steel, Main St. $350,000. Mowll & Rand, 21 School St., Boston, Mass., archt.

Conn., Hartford — BUSINESS — Harvey & Lewis Co., 865 Main St., taking bids 8 story, irregular shape, brick, steel and granite, Main and State Sts. $200,000. Buck & Sheldon, Inc., 60 Prospect St., archts.

Conn., Middletown—OFFICE and STORE—P. J. Stueck, 461 Main St., taking bids 5 story, brick, steel and concrete, Main St. L. P. Ward, 247 Park Ave., New York City, archt. Noted Feb. 4.

Conn., New Haven — THEATRE and STORE — R. Carleton, 55 Hobart St., taking bids 1 story, brick and steel, Whitney Ave. Whitneyville Dist. $150,000. W. H. Day, 44 Kirkham Ave., East Haven, archt. Noted Feb. 18.

N. Y., Manchester—OFFICE—Manchester Traction Light & Power Co. taking bids 3 story and basement, 60 x 100 ft., rein.-con. and brick, Elm and Lowell Sts. $150,000. C. R. Whitcher, 814 Elm St., archt.

N. Y., New York — APARTMENT — See "Contracts Awarded."

N. Y., New York — APARTMENT and STORE—See "Contracts Awarded."

Pa., Phila.—APARTMENT—J. F. Clark, archt., 23 South 16th St., taking separate bids 4 story and basement, 72 x 104 ft., brick and steel, plain foundation, 3502 Baring St. $200,000. Owner's name withheld.

Pa., Phila.—APARTMENT—May 24, by McIlvaine & Roberts, archts., Otis Bldg., 13 story and basement, 62 x 64 ft., rein.-con., brick and steel, plain foundation, 1720 Rittenhouse St., for C. J. McIlvaine, Otis Bldg. $400,000.

Pa., Phila.—BANK and OFFICE—May 26, by W. H. Lee, archt., Schaff Bldg., 11 story, mezzanine, basement and sub-basement, 49 x 55 ft., rein.-con., brick, stone and steel, plain foundation, Broad and Airdrie Sts., for Natl. Bank North Phila., 3701 North Broad St. $400,000.

Md., Baltimore — WAREHOUSE — See "Contracts Awarded."

Ind., Indianapolis—APARTMENT—See "Contracts Awarded."

Wis., Antigo—BANK—May 25, by Langlade Natl. Bank, 2 story and basement, 72 x 82 ft., rein.-con. and stone, plain foundation. $150,000. Oppenhamer & Obel, Nicollet Bldg., Green Bay, archt.

Wis., Milwaukee — APARTMENT and STORE — C. J. Keller & Son, archts., 432 Bway., taking bids concrete and excavation for 8 story and basement, 65 x 143 ft., brick, concrete and terra cotta, plain foundation, Grand Ave., for F. E. Schaetzke, 1385 Lake Dr. $400,000.

Mo., St. Louis—COURT—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Ore., Portland — GARAGE — See "Contracts Awarded."

Calif., Pasadena—EXCHANGE—Parkinson & Parkinson, archts., Title Insurance Bldg., Los Angeles, taking bids 2 story and basement, 80 x 90 ft., steel, brick and rein.-con., Lake and Elizabeth Sts., for Southern California Telephone Co., 740 South Olive St., Los Angeles. Noted Oct. 15.

Bids Received

N. Y., Thiells—ATTENDANTS BUILDING—Superintendent Purchase, Capitol, Albany, May 6, attendants home at Letchworth Village, here, from Bedford & Lyles, Inc., Thiells, $145,594. Noted Apr. 8.

Minn., Cambridge—ADMINISTRATION—State Dept. Administration & Finance, Capitol Bldg., St. Paul, May 4, general contract 2 story and basement, rein.-con., brick and stone administration building at Minnesota Colony for Epileptics, here, from Albee Bros., 1012 Plymouth Bldg., Minneapolis, $161,585. Noted Apr. 22.

Wash., Seattle—OFFICE and STORE—V. W. Voorhees, archt., Eitel Bldg., 10 story, rein.-con. and steel, 6th and Stewart Sts., from West Coast Constr. Co., Seaboard Bldg., for Vance Lumber Co., Eitel Bldg. $166,652.

Contracts Awarded

Me., Norway — BANK — Norway Natl. Bank, H. B. Foster, pres., 2 story and basement, 40 x 65 ft., concrete and stone, Main and Cottage Sts., to Kerr & Houston, 272 Middle St. Portland. Archts. est. $150,000. Noted Apr. 15.

Mass., Cambridge (Boston P. O.) — APARTMENT — Rotenberg & Rudnick, c/o Silverman, Brown & Heenan, archts., 51 Cornhill, Boston, will build 5 story and basement, brick and stone, plain foundation, Memorial Dr., here. $240,000. Work will be done by separate contracts.

Mass., Jamaica Plain (Boston P. O.)—APARTMENT—P. Glazer, 27 School St., Boston, will build 3 story and basement, brick and stone, plain foundation, here. $200,000. Work will be done by separate contracts. Silverman, Brown & Heenan, 51 Cornhill, Boston, archts. Noted Dec. 17.

Mass., Springfield—APARTMENT—D. E. Burbank, 6 story and basement, 96 x 150 ft., brick and steel, High and Maple Sts., to E. J. Pinney Constr. Co., 374 Main St. Archts. est. $250,000.

Conn., Middletown — HOSPITAL — State Hospital for Insane, F. M. Slamon, comptroller, State House, Hartford, 2 of 3 new buildings, additions to South and Middle buildings, brick and steel, to S. Mazzotta, Mazzotta Pl. Archts. est. to exceed $150,000. Noted Jan. 21.

Conn., Wallingford—ADMINISTRATION—Gaylord Sanatorium, D. R. Lyman, doctor, 3 story, 45 x 126 ft., stone and tile Gaylord Farm, to C. F. Wooding Co., 43 Wallace Ave. Archts. est. $150,000. Noted Feb. 4.

N. Y., Jamaica — STATION HOUSE — Police Dept., Center St., New York City, police station, 91st Ave. and 168th St., here, to Lustbader & Lutz Constr. Co., 103 Park Ave., New York City, $197,000.

N. Y., Montauk — HOTEL — Montauk Beach Development Co., C. G. Fisher, pres., 52 Vanderbilt Ave., New York City, brick, steel and stone, plain foundation, here, to Montauk Struck Co., Inc., Montauk. Noted Apr. 15.

N. Y., New York — APARTMENT — Spoffard Impvt. Co., c/o L. Piscotta, engr. and archt., 565 East Tremont Ave., will build 5 story, brick, steel and stone, plain foundation, Lebanon Ave., by day labor. $175,000.

N. Y., New York—OFFICE and LOFT—A. Adelson, 680 6th Ave., 21 story, brick, steel and stone, plain foundation, Park Ave., to Shroeder & Koppel, 347 Madison Ave. Archts. est. $4,000,000.

N. Y., New York—APARTMENTS—Bing & Bing, 119 West 40th St., will build two 15 story, brick, steel and stone, plain foundations, West End Ave. $1,000,000 each. Work will be done by separate contracts.

N. Y., New York—APARTMENT—Bing & Bing, 119 West 42nd St., will build 15 story, brick, steel and stone, lain foundation, East 57th St., by day labor. $1,000,000.

N. Y., New York — APARTMENT — Naples Holding Corp., c/o A. E. Schaefer, engr. and archt., 645 East Tremont Ave., will build brick, steel and stone, plain foundation, East 232nd St., by day labor. $200,000.

N. Y., New York — APARTMENT and STORE—Walart Constr. Co., Inc., L. Wolf, pres., 2305 University Ave., will build 6 story, brick, steel and stone, plain foundation, Davidson Ave. and 183rd St., by day labor. $300,000.

N. J., Trenton—FIRE HEADQUARTERS—City Comn., general contract 2 and 4 story fire headquarters, Perry St., to J. H. Morris Co., 211 North Montgomery St., $268,896. Noted May 13.

Md., Baltimore — WAREHOUSE — Consolidated Gas Electric Light & Power Co., East Monument St., will build 4 story and basement, 156 x 183 ft., rein.-con., plain foundation, 537-39 East Monument St., by day labor. $265,000. Private plans.

Pa., Easton — OFFICE — Lehigh Valley R.R. Co., G. T. Hand, ch. engr., 143 Liberty St., New York City, N. Y., 1 and 2 story and basement, 65 x 365 ft., rein.-con., brick and steel passenger and freight office, etc., to F. D. Hyde, Inc., 90 West St., New York City, N. Y. Engrs. est. $150,000. Noted Apr. 15.

Pa., Norristown—BANK and OFFICE—Montgomery Trust Co., 7 story and basement, 30 x 200 ft., rein.-con., brick and steel, plain foundation, East Main St., to F. R. Heavner, Boyer Arcade.

Pa., Phila. — APARTMENT — J. Scutti, Jefferson Bldg., 4 story and basement, 46 x 167 ft., brick and steel, plain foundation, 4205 Chestnut St., to W. P. Cameron Eng. Co., Packard Bldg. Archts. est. $150,000.

Pa., Phila. — AUCTION SALES — L. P. Kimball, engr. Buildings of Baltimore & Ohio R.R. Co., Baltimore, Md., (1st unit), 2 story, 114 x 1,026 ft., rein.-con. and brick, plain foundation, Delaware Ave. and Jackson St., here, to United Gas Impvt. Co., Broad and Arch Sts., for Baltimore & Ohio R.R. Co., Baltimore, Md., and Reading Co., Reading Terminal Bldg. Total $4,000,000. Noted May 6.

Pa., Phila.—BANK—W. L. Blithe, archt., 608 Chestnut St., 2 story and basement, 24 x 214 ft., rein.-con. and brick addition, 52nd and Market Sts., to Jacob Myers Sons Co., Witherspoon Bldg., for Market St. Title & Trust Co. Noted Apr. 22.

Pa., Phila. — STORE — Z. Rosenfeld, 2,900 North 5th St., 3 story and basement, 40 x 90 x 220 ft., rein.-con., brick and steel, plain foundation, 5611-13 North 5th St., to J. W. Emery Co., 34 South 16th St.

Pa., Phila.—WAREHOUSE—R. Benckert, archt., Bellevue Court Bldg., 8 story and basement, 90 x 99 ft., rein.-con., brick and steel, 210 South 10th St., to Ketcham & McQuade, 1029 Brown St., for Horn & Harhardt, 210 South 10th St. Archts. est. $500,000. Noted Apr. 29.

Pa., Pittsburgh — HOTEL — Kelkearys Hotel, 9th St., general contract 6 story and basement, brick and steel addition, to Taylor Meyer Co., Keystone Bldg. Archts. est. $150,000. Noted Apr. 8.

Va., Richmond — WAREHOUSE — P. Lorillard Co., 2300 East Cory St., 6 story, 158 x 253 ft., rein.-con., plain foundation, to White Constr. Co., 95 Madison Ave., New York City, $600,000.

S. C., Charleston—BARRACKS—Citadel Military Academy, & State of South Carolina, 70 room barracks, to Gallivan Building Co., Greenville. Archts. est. $300,000. Noted Apr. 29.

N. C., Greensboro—BANK and OFFICE—Greensboro Bank & Trust Co., 12 story and basement, 72 x 144 ft., granite and marble, to Angle & Blackford, Greensboro, about $900,000. Noted Mar. 11.

Miss., Gulfport—BANK and OFFICE—N. W. Overstreet, archt., Jackson, general contract 7 story, 50 x 75 ft., rein.-con., stone and terra cotta, 14th St. and 25th Ave., to A. C. Stamford, Montgomery, Ala., $157,000., for bank of Gulfport. Noted Apr. 15.

Miss., Jackson — EXCHANGE — Moyre, Alger & Alger, archts., Walton Bldg., Atlanta, Ga., 3 story, rein.-con. exchange, here, to A. J. Krebs, Walton Bldg., Atlanta, Ga., for Cumberland Telephone & Telegraph Co., Hurt Bldg., Atlanta, Ga. Archts. est. $200,000. Noted Apr. 22.

O., Dayton—STORE—Home Store, Inc., S. Schaffer, secy., East 3rd St., 5 story, brick and rein.-con., plain foundation, 3rd St., to F. H. Smith, Winters Bldg., $500,000.

Ind., Bluffton—CITY HALL—City, S. J. Moomaw, city clk., general contract 2 story and basement, 105 x 129 ft., brick and steel city hall, to Sheets & Carlson, Ft. Wayne. Archts. est. $150,000. Noted Apr. 8.

Ind., Indianapolis — APARTMENT — A. Baynham, 3530 North Pennsylvania St., will build 3 story and basement, 100 x 144 ft., brick and rein.-con., 3419-37 North Pennsylvania St. $150,000. Work will be done by separate contracts.

Ind., Indianapolis—APARTMENT—H. L. Moody & Co., 3370 College Ave., will build Biltmore Apartment, 3 story and basement, 79 x 200 ft., brick and steel, 35th and Meridian Sts. $200,000. Work will be done by separate contracts. George & Zimmerman, 501 Meyer-Kiser Bank Bldg., archts. Noted Mar. 25.

Ind., La Fayette—BANK—Natl. Fowler Bank, general contract rein.-con., steel and Bedford stone, to A. E. Kemmes, La Fayette. Archts. est. $150,000.

Ind., Muncie—THEATRE—Muncie Theatre Realty Co., general contract 2 story and basement, brick, steel and rein.-con., Mulberry and Adams Sts., to L. Colvin, Bd. Trade Bldg., Indianapolis. $400,000.

Mich., Detroit — APARTMENT — G. J. Hilsendgen, 108 Lochmoor Ave., 13 story and basement, rein.-con., brick and steel, plain foundation, John R. St., to Martin-Krausman Co., 955 East Jefferson Ave. Archts. est. approximately $1,200,000.

Mich., Detroit—HOTEL—W. A. Montgomery, 2005 Penobscot Bldg., 4 story and basement, 100 room, rein.-con., brick and steel, plain foundation, 3rd Ave., to Standard Constr. Co., 817 Donovan Bldg. Archts. est. $200,000.

Mich., Detroit—LODGE—United Arbiter Assn., 3638 Gratiot Ave., 3 story and basement, 120 x 160 ft., rein.-con., brick and steel, plain foundation, Maxwell and Seminole Aves., to M. Bartholomaei Son & Co., 1574 East Warren Ave. Archts. est. $500,000.

Mich., Grosse Pointe (br. Detroit)—CLUB HOUSE — Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., Detroit, 3 story and basement, rein.-con., brick and steel, plain foundation, Weir Rd., here, to F. N. Cooper Co., 6370 Gratiot Ave., Detroit, for Grosse Pointe Country Club. Archts. est. $350,000. Noted Mar. 25.

Mich., Highland Park (br. Detroit)—EXCHANGE—Smith, Hinchman & Grylls, 800 Marquette Bldg., Detroit, 2 story and basement, 100 x 146 ft., rein.-con., brick and steel, plain foundation, Highland Ave., here, to Everett Winters Co., 1024 Book Bldg., Detroit, for Michigan Bell Telephone Co., Cass Ave., Detroit. Archts. est. $150,000. Noted Mar. 11.

Mich., Pontiac — HOSPITAL — Oakland Co., Court House Annex, 2 story and base-

Buildings—Commercial (Continued)

ment tuberculosis hospital, rein.-con. and brick, plain foundation, Waterford Twp., to F. R. Patterson Constr. Co., 2631 Woodward Ave., Detroit, $299,000. Noted Apr. 1.

Wis., Milwaukee—BUSINESS—Munkwitz Realty Co., 177 Muskego Ave., 5 story and basement, 73 x 120 ft., rein.-con. and brick, plain foundation, Milwaukee and Mason Sts., to Foster Constr. Co., 114 Grand Ave. Archts. est. $175,000. Noted Mar. 25.

Kan., Wichita—BUSINESS—C. L. and F. C. Brocius, c/o Schmidt, Boucher & Overland, archts., Wichita, 6 story and basement, 50 x 120 ft., rein.-con., brick and stone, Douglas and Lawrence Sts., to G. H. Siedhoff Constr. Co., Broadview Hotel Bldg. Archts. est. $350,000.

N. D., Fargo—BUSINESS—Fargo Forum, general contract 3 story and basement, 78 x 142 ft., rein.-con., brick and terra cotta, 5th St. and 1st Ave. N., to Meinecke & Johnson Co., Fargo, $120,970.

Mo., Kansas City—CLUBHOUSE—Kansas City Country Club, 1½ story and basement, 150 x 200 ft., rein.-con. and brick clubhouse, to Swenson Constr. Co., Schubert Bldg. Archts. est. $250,000.

Mo., St. Louis—APARTMENT—Joyner Realty Co., 594 Arcade Bldg., 8 story and basement, 137 x 188 ft., rein.-con., brick and stone, 5610 Enright Ave., to Harrison-Kopman Constr. Co., 594 Arcade Bldg. Archts. est. $400,000.

Mo., St. Louis — APARTMENT and STORE — M. Costa et al, 7th and Carr Sts., 3 story and basement, 100 x 110 ft., rein.-con., brick and stone, 6246-52 Delmar Blvd., and 554-64 Limit St., to Rallo & Brugman, 5746 Easton St.

Mo., St. Louis — HOTEL and APARTMENT — Local Syndicate, c/o E. Thompson, Pierce Bldg., 8 story and basement, rein.-con., brick, stone, steel and terra cotta, Delmar Blvd. and Euclid Ave., to Widmer Eng. Co., Laclede Gas Bldg. Archts. est. $1,300,000.

Mo., St. Louis—SALES—J. L. Babler, 1909 Ry. Exch. Bldg., 1 and 2 story and basement, 209 x 275 ft., rein.-con., brick and stone, 4126-48 Lindell Blvd., to McKelvey Constr. Co., Title Guaranty Bldg. Archts. est. $175,000.

Mo., St. Louis—STORE and APARTMENT—Local Syndicate, 3 story and basement, 99 x 143 ft., rein.-con., brick and stone, Union and Delmar Blvds., to W. H. Smith-Nelson Cunliffe Co., 110 North 7th St.

Ark., El Dorado—BANK and OFFICE—Exchange Realty Co., Exch. Bldg., G. W. James, pres., general contract 10 story, 100 x 100 ft., rein.-con., brick, stone and steel, Washington and Oak Sts., to Stewart & McGehee Constr. Co., Kahn Bldg., Little Rock, $385,000. Noted Mar. 11.

Ark., Hot Springs — HOTEL — Majestic Hotel Co., H. A. Jones, mgr., 8 story and basement, 48 x 158 ft., rein.-con., brick and terra cotta, Park and Central Sts., to Herman & McCain Constr. Co., Reigler Bldg., Little Rock. Archts. est. $400,000. Noted Apr. 22.

Tex., Galveston—WAREHOUSE, etc.—Galveston Wharf Co., c/o E. M. Gossreau, 2324 Ave. B, 2 story, 200 x 300 ft., and 1 story, 200 x 1,200 ft. rein.con. and steel warehouse and wharf shed, to W. A. Kelso, 2215½ C St., $1,000,000. Noted Apr. 15.

Tex., San Antonio—COURT HOUSE—Phelps & DeWees, engrs. and archts., Gunter Bldg., also E. I. Jackson & M. G. Williamson, archts., c/o Builders Exch. Bldg., general contract remodeling and constructing 5 story and basement, rein.-con., brick, tile addition, plain foundation, Main Plaza, to Walsh & Burney, 928 North Flores St., $976,846; heating, ventilating and plumbing, to Jud & Ormand, 703 North Flores St., $125,608. Noted May 6.

Okla., Alva — HOTEL — Chamber Commerce, 6 story and basement, 42 x 72 ft., rein.-con. and brick hotel, to G. Buxton, Enid. Archts. est. to exceed $150,000. Noted Oct. 29.

Okla., Oklahoma City — OFFICE — Layton, Hicks & Forsythe, archts., Braniff Bldg., 4 story and basement, 70 x 150 ft., rein.-con. and stone, plain foundation, 13th St., to J. H. Frederickson & Co., Baltimore Bldg., for Mid-Continent Life Insurance Co., 200 North Robinson St. $325,000. Noted Apr. 15.

Wash., Olympia—BANK—A. H. Albertson, archt., Henry Bldg., Seattle, 5 story and basement, 60 x 120 ft., rein.-con. and terra cotta, 4th and Washington Sts., to Dawley Bros., Olympia, $233,500. Former contract rescinded. Noted Apr. 8.

Wash., Tacoma — LODGE — Tacoma Masonic Order, 743 Market St., 5 story, 124 x 134 ft., rein.-con., cast stone and steel, South 2nd and St. Helens Sts., to Chalmers & Biehns, Tacoma, $386,500. Archts. est. $400,000.

Ore., Portland—GARAGE—Pacific Properties Co., 272 U. S. Bank Bldg., will build 6 story, 100 x 200 ft., rein.-con., plain foundation, 5th St. between Salmon and Taylor Sts., by day labor. $360,000. A. E. Doyle, Pacific Bldg., archt.

Calif., Alameda — LODGE — Masonic Orders of Alameda, 2 story and basement, steel and rein.-con., Park St. and Central Ave., to Jacks & Irvine, 180 Jessie St., San Francisco, approximately $152,000. Noted May 6.

Calif., Berkeley—LODGE and STORE—I. O. O. F. Hall Assn., general contract 3 story and basement, steel and rein.-con., Bancroft Way, to Conner & Conner, 1726 Grove St., Oakland. $135,250. Noted May 13.

Calif., Beverly Hills — CLUB — Beverly Hills Club, Inc., 2 story, 125 x 170 ft., rein.-con., Roxbury Dr., to F. R. Johnson, 101½ Wilshire Blvd. $150,000 or more. Noted Apr. 15.

Calif., Compton—MAUSOLEUM—Angeles Abbey Mausoleum Park Co., rein.-con. mausoleum, to C. N. Fink, Pacific Southwest Bank Bldg., Long Beach, approximately $165,000.

Calif., Hayward—WAREHOUSE—Hunt Bros. Packing Co., 2 Pine St., San Francisco, 1 story, rein.-con., here, to P. J. Walker Co., Sharon Bldg., San Francisco, $150,000.

Calif., Long Beach—APARTMENT—Les Chateaux Apartments, 7 story and basement, 52 x 78 ft., rein.-con., Ocean Ave., to Stradley, Newton & Wilkie, Markwell Bldg., approximately $250,000.

Calif., Los Angeles — APARTMENT — Bergeron & Greenbaum, 430 South La Brea Blvd., 5 story and basement, 80 x 140 ft., rein.-con., McCadden Pl., to Sarver & Zoss, 641 North Plymouth Blvd., $175,250.

Calif., Los Angeles—THEATRE—Hollywood Music Box, Inc., Hollywood, 2 story, rein.-con., 950 seating capacity, 6120 Hollywood Blvd., to W. Simpson Constr. Co., Bank of Italy Bldg., $168,000. Noted Oct. 15.

Calif., Los Angeles — THEATRE and STORE—P. B. Brunson & M. B. Pringle, 2 story, 90 x 175 ft., brick, Hollywood Blvd. near Gower St., to W. Simpson Constr. Co., Bank of Italy Bldg., $168,000.

Calif., Los Angeles — THEATRE and LODGE — Chotiner Amusement Co., c/o R. D. King, archt., Van Nuys Bldg., 2 story, 130 x 137 ft., brick, 9th St. and La Brea Ave., to J. F. Kuhns, 175 West 37th Pl. Noted Feb. 18.

Calif., Pasadena—APARTMENT—O. M. Packard, 24 South Mentor Ave., 4 story and basement, 57 x 155 ft., brick, South Mentor Ave., to Union Eng. Co., Bartlett Bldg., Los Angeles, $150,000.

Calif., San Diego—THEATRE, STORE and LOFT—Kass & Rubin, Bank of Italy Bldg., Los Angeles, 8 story, 100 x 200 ft., rein.-con., 2,000 seating capacity C St. between 3rd and 4th Sts., to Edwards, Wildey & Dixon, Edwards Wildey Bldg., Los Angeles, $220,400. West Coast Theatres Inc., leasee.

Calif., Taft—HOTEL—S. Orloff, brick and concrete, 5th and North Sts., to L. A. Building & Contg. Co., Marsh-Strong Bldg., Los Angeles, approximately $225,000.

Buildings—Industrial

Proposed Work

Me., Rockland—CEMENT PLANT—Consolidated Cement Co., Chicago, Ill., c/o Great Western Portland Cement Co., Land Bank Bldg., Kansas City, Mo., plans cement plant, here. $3,000,000. Nowham Eng. Co., 111 West St. Monroe St., Chicago, Ill., engrs.

Mass., Boston—FACTORY—Boston Cutting Die Co., E. W. Hanson, 202 A St., South Boston, having preliminary plans prepared 1 story, brick, Old Colony Ave. and Cottage St., here. $50,000. Private plans.

Mass., Boston — PRINTING PLANT — Boston Publishing Co., R. L. O'Brien, pres., 171 Tremont St., plans 2 story, brick printing plant. $50,000 or more. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.)—FACTORY—McHugh Realty Co., 4 Osborne St., having plans prepared altering and constructing 4 story and basement, brick addition, Sidney St. $40,000 or more. Private plans. Noted Dec. 17.

Mass., Somerville (br. Boston)—MANUFACTURING — Agar Mfg. Corp., C. A. Agar, pres., 15 Winchester St., plans 2 story, brick, near Lowell St. $50,000. Engineer and architect not selected.

Mass., Winchester — FACTORY — Winchester Gelatine Co., W. A. Perkins, Cross St., plans 2 or more story, brick addition, $40,000 or more. Engineer and architect not selected.

N. Y., Buffalo—FLOUR MILL—Standard Milling Co., 49 Wall St., New York City, having plans prepared by Baxter Eng. Co., Ellicott Sq. Bldg., flour mill, Tifft Farm, here. $4,000,000.

N. Y., New York — POWER HOUSE — New York Steam Co., 280 Bway., plans rein.-con. brick and steel, plain foundation, East 35th St. $400,000. Private plans.

Pa., Aliquippa—BOILER PLANT—Jones & Laughlin Steel Corp., Ross St., Pittsburgh, authorized Dwight P. Robinson & Co., engrs., 126 East 46th St., New York City, N. Y., to prepare plans and specifications, 18,000 hp. boiler plant, here.

Pa., Hanover — SILK MILL — Brilliant Silk Mfg. Co., 384 4th Ave., New York City, N. Y., having plans prepared by F. W. Wentwork, 140 Market St., Paterson, N. J., 1 story, 65 x 123 ft. silk mill, here. $75,000.

Pa., Lewistown—GAS PLANT—Penn Central Light & Power Co., J. H. Shearer, vice pres. and genl. mgr., Union Ave. and 18th St., Altoona, making preliminary plans rein.-con. and steel gas plant, here or near by.

Pa., Phila.—MILL—Harris & Richards, archts., Drexel Bldg., soon lets contract 3 story and basement, 54 x 205 ft., rein.-con. and brick, plain foundation, 5th and Courtland Sts., for Gotham Silk Hosiery Co., 389 5th Ave., New York City. Noted Apr. 22.

N. C., Salisbury—DYE WORKS—F. A. Tomaline Silk Dye Wks., c/o Chamber of Commerce, Salisbury, purchased 10 acre site and plans dye works. $125,000.

Fla., Tampa—LAUNDRY—Snow White Laundry, W. S. Browning, pres., purchased site and plans laundry, Cypress and Mantanzas Sts. $150,000.

La., Gouldsboro (mail McDonoghville)—ENGINE TERMINALS and SHOPS—Texas & Pacific R.R. Co., E. F. Mitchell, ch. engr. Dallas, Tex., had tentative plans prepared engine terminals and shops, here. $1,500,000.

Tenn., Columbia—ICE PLANT—Maury Co. Ice Co. plans ice plant. $40,000 funds being raised for same.

Tenn., Nashville—SERVICE STATIONS—Blackwood Tire & Battery Co., 914 Broad St., plans 10 auto tire, gasoline and battery service stations in Nashville and adjacent towns. To exceed $40,000.

Tenn., Nashville—TEXTILE MILLS—T. Henry & Sons, Inc., Trenton Ave. and Tioga St., Phila., Pa., having plans prepared by Marr & Holman, Stahlman Bldg., Nashville, new textile mill, here. $250,000. Roberts & Co., Bona Allen Bldg., Atlanta, Ga., engrs.

Ind., Gary—REFINERY—Standard Oil Co. of Indiana, having plans prepared refinery. $1,000,000.

Wis., La Crosse — LAUNDRY — Modern Steam Laundry Co., 312 State St., having plans prepared by W. E. Bennett, 421 West Ave. S., 2 story and basement, brick and concrete, plain foundation, 5th St. $45,000.

Wis., Oshkosh — FINISHING SHOP — Badger Lumber & Mfg. Co., Badger Rd., having plans prepared by Auler & Jensen, F. R. A. Bldg., 1 story, 187 x 215 ft., brick, plain foundation. $60,000.

Wis., Platteville — FOUNDRY — Russell Fdry. Co., F. Russell, mgr., plans 1 story, 38 x 110 ft., rein.-con., brick and steel, plain foundation. $40,000. Engineer and architect not selected.

Wis., Shawano — HYDRO-ELECTRIC PLANT—Wisconsin Power & Light Co., 16 North Carroll St., Madison, having plans prepared rein.-con., brick and steel hydro-electric plant, on Wolf River. $50,000. Private plans.

Wis., Soldiers Grove — PLANT — Interstate Power Co., H. C. Ortin, mgr., Dubuque, Ia., having plans prepared 1 story, rein.-con., brick and steel hydro-electric plant, here. $75,000. Private plans. Noted Apr. 29.

Neb., Omaha—SERVICE and GARAGE—Metropolitan Utilities Dist., City Hall, rejected bids Apr. 27, garage and service building, 20th and Center Sts. $275,000. J. Latenser & Sons, Peters Trust Bldg., archts. Will readvertise. Noted May 13.

Mo., Kansas City—POWER PLANT—Sisters of St. Mary, St. Marys Hospital, 2800 Main St., soon let contract power and refrigerating plant, also 300 ft. rein.-con. underground tunnel, Baltimore Ave. $100,000. Burns & McDonnell, 402 Interstate Bldg., engrs.

Mo., St. Louis — FACTORY — Carter Carburetor Co., 2838 North Spring Ave.,

Buildings—Industrial (Continued)

had plans prepared by W. P. McMahon, 819 Buder Bldg., 2 story and basement, 35 x 50 ft., rein.-con. and brick, Spring Ave. $50,000.

Tex., Galveston — PACKING HOUSE — High Grade Packing Co., c/o J. Tramont, 2677 Ave. D., having plans prepared by Stowe & Stowe, 311½ 22nd St., 2 story rein.-con., tile and steel packing house. $50,000.

Tex., Goliad—ICE PLANT—Texas Central Power Co., c/o Frost Bldg., San Antonio, having plans prepared 40 ton ice plant. $50,000. Private plans.

Tex., Goliad—POWER PLANT—Texas Central Power Co., c/o N. P. Neiswanger, Frost Bldg., San Antonio, having plans prepared electric power plant. $40,000. Private plans.

Tex., Shelbyville — COLD STORAGE PLANT—Nacogdoches Ice Cream Co. plans brick and tile cold storage plant. $35,000. Private plans.

Okla., Poteau — LIGHT PLANT — City had preliminary plans prepared 400 hp. diesel engine electric light plant. $60,000. J. E. Davis, Poteau, engr.

Wash., Shelton — FACTORY — Rainier Pulp & Paper Co. having plans prepared by V. D. Simons, 431 North Michigan Ave., Chicago, Ill., 75 ton sulphite pulp and paper mill, concrete.

Calif., Fresno—FACTORY—W. C. Cook & Co., Inc., Clovis, plans 2 story, 50 x 150 ft., brick P and San Benito Sts., here. $40,000.

Calif., Fullerton—CANNING PLANT—Interests represented by A. Cutler, Ontario, had plans prepared 100x300 ft., frame and corrugated iron, Highland Ave. $40,000 or more.

Calif., Hollydale—MILL—Los Angeles Knitting Co., 3511 South Park Ave., Los Angeles, had plans prepared by Hamm & Grant, Inc., 607 Ferguson Bldg., Los Angeles, 1 story, 150 x 150 ft. knitting mill, Main St. and Kentucky Ave. $40,000.

Calif., Huntington Park (br. Los Angeles) — FACTORY — Los Angeles Ladder Co., 1630 South Central Ave., Los Angeles, having plans prepared 120 x 120 ft. main building, 60 x 150 ft. warehouse, 60 x 90 ft. machinery building, etc., steel, Alameda Blvd. $40,000. Private plans.

Calif., Los Angeles—MILL—Los Angeles Knitting Co., Inc., 3511 South Park, having plans prepared 1 story, 150x250 ft., knitting mill, brick, Main and Kentucky Sts. $40,000. Hamm & Grant, Inc., Ferguson Bldg., engrs.

Calif., Los Angeles — PLANT — Sperry Flour Co., 141 California St., San Francisco, plans rein.-con. plant, Fruitland and Maywood Aves., here. $400,000.

Calif., Napa—PLANT—F. B. Cox in conjunction with Napa Chamber of Commerce, making estimates pre-cooling plant. $150,000 or more.

Calif., Oakland — SHOPS and PLANT —Black & Decker Mfg. Co., 75 Fremont St., San Francisco, purchased 30,000 sq.ft. site and plans shops and distributing plant, 10th St. and 6th Ave., here.

Calif., Richmond — WAREHOUSE — Standard Sanitary Mfg. Co., 1000 Brannan St., San Francisco, had preliminary plans prepared by J. J. Donovan, Tapscott Bldg., Oakland, 2 story, rein.-con. warehouse, here. $250,000.

Calif., Vernon (mail Watts)—PLANT—Baldridge Packing Co., Inc., Los Angeles, had plans prepared by J. Allen, archt. and engr., 1210 90th Pl., 2 story, 47 x 138 ft. packing plant, incl. refrigeration plant, etc., 3103 East Vernon Ave., here. $40,000.

Que., Limoilan—SHOPS—Quebec Power Co. soon takes bids repair and car construction shops. $500,000.

Ont., Stratford — FURNITURE FACTORY — Kroehler Furniture Co., c/o F. Trebell, mgr., having plans prepared factory addition, etc. $250,000.

Ont., Woodbridge—TANNERY—W. Edwards, pres. Woodbridge Tannery, plans rebuilding tannery, recently destroyed by fire. $250,000.

Bids Desired

Mass., Salem—PRINTING PLANT—See "Contracts Awarded."

Pa., Abington—POWER HOUSE—May 24, by Abington Twp. School Bd., C. M. Doll, Glenside, 2 story, basement and sub-basement, 57 x 84 ft., rein.-con. and steel, plain foundation. Heacock & Hokenson, 1211 Chestnut St., Phila., archts.

La., Alexandria—OAK FLOORING MILL See "Contracts Awarded."

Ind., La Fayette—FACTORY—Standard Wood Co., c/o G. L. Potter, taking bids 1 story, 100 x 166 ft., brick and steel factory. $40,000. Private plans. Noted July 23.

Wis., Luck — PLANT — Atlas Co-operative Creamery Co. taking bids 2 story and basement, 50 x 56 ft., rein.-con. and brick, dairy plant and creamery, plain foundation. Kampfer & Buetow, 1380 Blair St., St. Paul, Minn., archt.

Tex., Brownsville—POWER PLANT—Pub. School Bd. taking bids 1 story, brick, tile and concrete power plant. $40,000. H. P. Smith, c/o Natl. Bank of Commerce, San Antonio, engr.

Tex., Sinton — PLANT — See "Contracts Awarded."

Contracts Awarded

Me., West Buxton—POWER PLANT—Cumberland Co. Power & Light Co., power plant, to Foundation Co., 120 Liberty St., New York City. Engrs. est. $500,000.

Mass., Adams — PLANT — New England Lime Co., plant addition, to Dwight P. Robinson Co., 125 East 46th St., New York City, N. Y.

Mass., Boston — FACTORY — Garnstein Bros. & Cooper, 1-3 1st St., South Boston, 2 story, 60 x 100 ft., rein.-con. and brick, C and 1st Sts., to J. Slotnick, 448 Bway., Chelsea. Archts. est. $50,000.

Mass., Cambridge (Boston P. O.)—FACTORY—Natl. Co., 110 Brookline St., 2 story, 45 x 95 ft., brick addition, to Parkhurst Building Co., 1078 Boylston St., Boston. Archts. est. $40,000. Noted Apr. 8.

Mass., Holyoke — BOILER HOUSE — City, Gas & Electric Dept., 1 story, brick, to J. P. Kennedy & Co., Inc., 46 Park St. Archts. est. $40,000.

Mass., Lawrence — SERVICE and REPAIR SHOP — Lawrence Gas & Electric Co., 370 Essex St., 4 story and basement, 50 x 80 ft., brick, Methuen St., to L. C. Cyr, Saunders Bldg. Archts. est. to exceed $40,000.

Mass., Salem — PRINTING PLANT — Salem Evening News, Washington St., will build 2 story and basement, brick additional unit, Front and Washington Sts., by day labor, under supervision G. H. Fanning, engr., 212 Essex St. $40,000 or more.

Mass., South Boston (sta., Boston)—FACTORY — Boston Cutting Die Co., E. W. Hanson, 202 A St., 1 story, rein.-con. and brick, Old Colony Ave. and Cottage St., to Wilson & Tomlinson, 201 Devonshire St., Boston. Archts. est. $50,000.

Conn., Bridgeport — FACTORY — H. Isaacs, 226 Oak St., 2 story, 60 x 75 ft., brick and steel, Asylum St., to J. D'Agostino & Sons, Warner Bldg. Archts. est. $40,000. Noted Dec. 24.

Conn., Stamford — PAINT PLANT — Baer Bros., 700-68 Canal St., 2 story, 125 x 132 ft., brick and steel addition, to Thompson & Binger, 103 Park Ave., New York City. Archts. est. $75,000. Noted Apr. 29.

N. Y., Brooklyn — WAREHOUSE — Reliable Warehouse Co., Inc., 193 Bay 19th St., 4 story, 65 x 90 ft. rein.-con., brick and steel addition, also altering 3 story, 40 x 90 ft. warehouse, to Rugge Constr. Co., Inc., 189 Bay 19th St. $90,000.

N. Y., Buffalo — FACTORY — General Electric Co., Electric Bldg., 1 story, 122 x 184 ft., rein.-con., brick and steel addition to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O. Archts. est. $100,000.

N. Y., New York — POWER HOUSE — New York Steam Corp., 280 Madison Ave., 120,000 hp., brick, steel and stone, plain foundation, East 35th St., to D. P. Robinson & Co., 125 East 46th St. Archts. est. $400,000. Noted May 20.

N. J., Bridgeton—SHOP—H. Z. Cutler Co., 505 Arch St., Camden, 1 story, 140 x 250 ft., rein.-con., brick and steel, plain foundation, to G. Maier & Bro., Bridgeton.

Pa., Harrisburg—PRINTING PLANT—Mt. Pleasant Press, J. H. MacFarland, pres., Mulberry and Crescent Sts., 3 story and basement, 100 x 102 ft., rein.-con., brick and steel, plain foundation, Mulberry and Crescent Sts., to R. S. Shoemaker, 2108 Walnut St. Noted Apr. 22.

Pa., Phila.—MILL—Artcraft Silk Hosiery Co., M and Torresdale Sts., 1 story and basement, 96 x 160 ft., rein.-con. and brick, plain foundation, to W. Steele & Sons Co., 219 North Broad St. Archts. est. $40,000.

Pa., Phila.—FACTORY—Bisbee Linseed Co., Drexel Bldg., 5 story and basement, 100 x 150 ft., rein.-con. and brick, plain foundation, Delaware and Bigler Sts., to J. N. Gill Constr. Co., 121 North Broad St.

Pa., Phila.—FACTORY—Glove Dye Wks., R. D. Greenwood, pres., Worth and Kinsey Sts., 4 story and basement, 59 x 131 ft., rein.-con. and brick, plain foundation, to F. V. Warren Co., 1913 Arch St. Noted Apr. 1.

Pa., Phila.—MACHINE SHOP—A. E Pausser, 1055 Locust St., 2 story and basement, 42 x 60 ft., brick and stone, plain foundation, 738 South 42nd St., to W. M. Manuel, 5849 Ellsworth St. Archts. est. $50,000.

Pa., Phila. — MILL — M. Sarfert, 4092 North 13th St., 2 story and basement, 52 x 127 ft., rein.-con., brick and steel, plain foundation, M and Butler Sts., to G. Kessler Contg. Co., 1733 North Marvine St. Archts. est. $40,000.

Pa., Pittsburgh — FREIGHT HOUSE — Pennsylvania R.R. Co., Broad St. Sta., Phila., general contract 1 and 2 story and basement, 42 x 255 ft., brick and steel, 13th and Pike Sts., to J. F. Casey Co., Aspinwall. Archts. est. $150,000. Noted Apr. 29.

Ga., Savannah — POWER STATION — Savannah Electric & Power Co., 27 West Bay St., addition to River Side Power Station, incl. 15,000 kw. turbine generator, 27,000 sq.ft. condenser and auxiliaries, two 1,370 hp. capacity boilers each, etc., to Stone & Webster, Inc., 147 Milk St., Boston, Mass.

Ala., Sheffield—FOUNDRY—King Mfg. Co., 230 South Clark St., Chicago, Ill., general contract 1 story, 140 x 480 ft. foundry and 2 story, 24 x 40 ft. office building, rein.-con., brick and steel, to C. P. Morris, 1220 South 11th St., St. Joseph, Mo. Archts. est. $150,000. Noted Feb. 18.

La., Alexandria—OAK FLOORING MILL —Arkansas Oak Flooring Co., will build 88 x 290 ft. mill, 50 x 94 ft. power house, 120 x 192 ft. warehouse, etc., by day labor. $400,000. E. F. Ensign, Memphis, Tenn., archt.

Tenn., Memphis—WAREHOUSE—W. E. Stansbury, 244 Stonewall Pl., 2 story, concrete, South Front St., to W. W. Wessel, Overton Park Ave., $40,000. Pittsburgh Steel Co., Exch. Bldg., lessee.

O., Cleveland—FACTORY—Bohnard & Parsson, archts., 1900 Euclid Bldg., 2 story and basement, 52 x 165 ft., brick and steel addition, Manchester Ave., to Boldt Constr. Co., 1969 East 70th St., for Lindsay Wire Weaving Co., H. L. Lindsay, pres., 14025 Aspinwall Ave. Archts. est. $100,000.

Ind., Kokomo—FACTORY—C. Sanders, steel for 1 story and basement, 90 x 200 ft. factory, West State St. and Park Ave., to Hetherington & Berner, 701 Kentucky Ave., Indianapolis. Archts. est. $40,000.

Mich., Muskegon—FACTORY—A. Kahn, archt. and engr., Marquette Bldg., Detroit, 5 story, 110 x 215 ft., rein.-con., plain foundation, Division St., to O. F. Miller Co., Kalamazoo, for Shaw-Walker Co., Western Ave. and Division St. Archts. est. $250,000. Noted Mar. 25.

Mich., Muskegon Heights—FACTORY—Piston Ring Co., 4 story, 122 x 125 ft., rein.-con., Sanford St., to Strom Constr. Co., 357 Houseman Bldg., Grand Rapids, $100,000 plus percentage basis. Noted Mar. 4 under "Muskegon."

Mich., Saginaw — FACTORY — Lufkin Rule Co., 2 story and part basement, rein.-con., brick and steel, plain foundation, to Everett Winters Co., 1024 Book Bldg., Detroit. Archts. est. $100,000. Noted Apr. 29.

Wis., Madison — SHOP — A. C. Fosdick, 1634 Schiller Court, 1 story, 60 x 90 ft., rein.-con., brick and steel, Division St., to B. Swan, 1910 Yahara Pl.

Wis., Milwaukee — FACTORY — Dick & Bauer, 811 State St., 2 story and basement, 52 x 150 ft., rein.-con. and brick addition, plain foundation, 7th St., to Dahlman Constr. Co., 456 Bway., for Adraft Realty Co., 337 7th St. Archts. est. $65,000. Noted Apr. 8.

Wis., Racine—FOUNDRY—C. S. Anderson, mgr. Belle City Malleable Iron Co., Kewaunee St. (2nd unit), 1 story, 118 x 200 ft., brick and steel, plain foundation, to Nelson & Co., Janes Blk. Noted Apr. 29.

Wis., Racine—PRINTING PLANT—F. J. Hoffman, archt., Janes Blk., 2 story and basement, irregular shape, rein.-con. and brick addition, plain foundation, to Bondgard Constr. Co., 932 Frederick Ave., for Times-Call Building Corp., Main St. Archts. est. $50,000. Noted Apr. 15.

Wis., Trego—POWER PLANT—Wisconsin Hydro-Electric Co., E. J. Schneider, pres., Amery, rein.-con., brick and steel power plant and dam on Namakagon River, near here, to Siems, Helmer & Schaffner, Guardian Life Bldg., St. Paul, Minn. Archts. est. $70,000. Noted Dec. 31.

Minn., Minneapolis — FACTORY — Ke Hawke Mfg. Co., 421 South 6th St., F. J. Kerner, pres., general contract 2 story and basement, 85 x 124 ft., rein.-con. and brick, Western Ave. between Aldrich and Bryant Sts., to E. M. Ganley Constr. Co., 2922 Oakland Ave. Archts. total est. $75,000.

Mo., St. Louis — LUMBER — Charles Naber's Sons Lumber Co., 3732 North Bway., 1 story, 138 x 240 ft. lumber shelter addition, steel, North Bway., to C. P. Riechers, 2820 St. Louis St. Archts. est. $45,000.

Mo., St. Louis — BAKERY — W. Freund Bread Co., 4477 Chouteau Ave., 2 story and basement, 115 x 143 ft., rein.-con., brick and stone, Chouteau Ave., to M. C. Bartels, 4910 Gravois Ave. Archts. est. $100,000.

Buildings—Industrial (Continued)

Mo., St. Louis—AUTO BODY FACTORY—Herman Body Co., 1831 South 3rd St., 1 story and basement, 110 x 204 ft., rein.-con. and brick, 1815 North 23rd St., to Murch Bros. Constr. Co., Ry. Exch. Bldg.

Mo., St. Louis — FURNACE PLANT — Hemp & Co., 1939 South Vandeventer Ave., 2 story and basement, 80 x 145 ft., rein.-con., 1945 South Vandeventer Ave., to Austin Co., 1198 Arcade Bldg. Archts. est. $40,000.

Tex., Sinton — PLANT — Texas Central Power Co., c/o Frost Bldg., San Antonio, will build 70 ton capacity ice plant, by day labor. $100,000. Private plans. Noted Apr. 8.

Okla., Sand Springs—TEXTILE MILLS—C. R. Miller Mfg. Co., Natl. Bank of Commerce Bldg., Tulsa, 82 x 368 ft. rein.-con. and brick, to W. R. Grimshaw Constr. Co., Tulsa. Archts. est. $300,000.

Calif., Watsonville — PACKING PLANT—Corralitos Fruit Growers, Inc., 1 story 100 x 150 ft. main section, 30 x 80 ft. peeling room, and 22 x 28 ft. fan room, rein.-con., to J. Renfrow, Watsonville, $40,000.

Buildings—Educational, Religious

Proposed Work

Mass., Allston (Boston P. O.)—SCHOOL—Schoolhouse Dept., City Hall, Boston, having plans prepared by E. I. Wilson, 109 State St., Boston, 1 story and basement, brick and stone, Brainerd Rd., here. $150,000. Noted Oct. 15.

Mass., Greenfield—SCHOOL—Town, Bd. Educ., W. P. Abbott, supt. schools, plans 2 story and basement, brick school. $150,000. Engineer and architect not selected.

Mass., Groton—HIGH SCHOOL—Town, School Building Com., having revised plans prepared by F. I. Cooper Corp., 172 Tremont St., Boston, 2 story and basement, 36 x 150 ft. and 45 x 55 ft., brick and stone high school. $150,000. Former bids rejected. Noted May 6.

Mass., Leominster — HIGH SCHOOL — City, School Bd., having plans prepared by M. A. Dyer, 1 Beacon St., Boston, new Junior High School. $500,000.

Mass., Medford (br. Boston) — HIGH SCHOOL — City, W. White, chn. building com., having preliminary sketches made by M. A. Dyer, 1 Beacon St., Boston, Junior High School, 2 story and basement, brick and stone, Court St. $800,000. Noted Mar. 25.

Mass., Quincy (Ind. br. Boston) — HIGH SCHOOL—City, Mayor's Office, City Hall, having sketches made by Shepard & Stearns, 65 Franklin St., Boston, Junior High School, 2 story and basement, brick and stone, South Quincy. $400,000.

Mass., Springfield—SCHOOL and COMMUNITY — Y. M. & Y. W. H. A., H. Adaskin, chn. executive com., 234 Main St., chn., plans raising $200,000 funds, 3 story, school and community.

Mass., Springfield—SCHOOL—City had plans prepared by M. W. Maloney, 12 Pearl St., 2 story and basement, 85 x 130 ft., brick and steel school. $150,000. Noted Mar. 4.

Mass., Whitman — HIGH SCHOOL — Town, c/o J. W. Beal Sons Co., archts., 185 Devonshire St., Boston, having preliminary sketches made Senior High School, 2 story and basement, brick and stone. $300,000. Noted Apr. 29.

Conn., New Haven—HIGH SCHOOL—City, Bd. Educ., having plans prepared by Brown & Von Beren, 185 Church St., Junior High School, 18 room, Bassett St. $200,000.

N. Y., Dansville—SCHOOL—M. C. Miller, archt., 70 West Chippewa St., Buffalo, prepared plans and soon takes bids 2 story and basement, 90 x 180 ft., brick, steel and stone, plain foundation, South St., here, for Bd. of Educ., G. L. Kreen, chn. building com. $250,000.

N. Y., Lake George — SCHOOL — Bd. Educ. having plans prepared by E. S. Hewitt, engr. and archt., 597 5th Ave., New York City, 2 story, brick, steel and stone, plain foundation, West Main St. $200,000.

N. Y., Savannah—SCHOOL—Bd. Educ., H. J. West, chn., plans school. $150,000. Engineer and architect not selected.

N. J., East Orange — PAROCHIAL SCHOOL—L. E. Denslow, archt., 44 West 18th St., New York City, takes bids in June, 2 story, concrete and stone school, Dodd St., here, for Church of Holy Name, 104 Brighton Ave. $200,000.

N. J., Rahway—SCHOOL—Bd. Educ., M. F. Quinn, pres., having plans prepared by J. F. Kelly, 152 Meade Ave., Passaic, 2 story school, at East Rahway. $255,000. S. Williams, Rahway, engr.

N. J., Trenton — SCHOOL — Hamilton Twp. Bd. Educ. soon takes bids 2 story school. $200,000. Former bids rejected. W. A. Klemann, 1st Natl. Bank, engr. Noted Apr. 1.

Pa., Altoona—HIGH SCHOOL—Altoona School Dist., W. N. Decker, secy., 6th Ave. and 15th St., plans 3 story and basement, 120 x 240 ft. annex to Senior High School, 14th St. $400,000. Engineer and architect not selected.

Pa., New Castle — CHURCH — Third United Presbyterian Church having plans prepared by J. L. Beatty, Jackson Bldg., Pittsburgh, 2 story and basement, 96 x 120 ft., brick or stone, here. $150,000.

Pa., Phila.—CONVENT—H. D. Dagit & Son, archts., 1329 Race St., soon lets contract 3 story and basement, 69 x 80 ft., rein.-con., brick, stone and steel, plain foundation, 47th St. and Windsor Ave. for St. Francis De Sales Parish, W. J. Crane, rector. $150,000.

Fla., Tampa—PROFESSIONAL—L. M. Anderson and associates, having plans prepared by R. E. Crowe, 212½ Franklin St., 11 story, 127 x 158 ft., Grand Central and Park Aves. $700,000.

Ala., Albany — CHURCH — Central Methodist Church raising $200,000 funds, and making preliminary plans new church, 6th and Jackson Sts.

La., Shreveport—COLLEGE—Society of Jesus, St. Johns College, c/o M. J. Walsh, pastor, having preliminary plans prepared by E. F. Neild, 1206 City Bank Bldg., 2 or 3 story and basement, rein.-con. and brick, plain foundation. $300,000.

Tenn., Chattanooga—SCHOOLS—Hamilton Co. voted $350,000 bonds for Normal Park and St. Elmo Junior High School, W. H. Sears, James Bldg., archt.; White Oak, Red Bank and Southside Schools, Daugherty & Gardner, Nashville, archts.; Central High School addition, R. H. Hunt, James Bldg., archt.; Eastdale addition, C. Bearden, 1st Natl. Bank Bldg., archt.; and Mission Ridge addition, J. G. Gauntt, Chattanooga, archt. Noted Apr. 8.

Tenn., Nashville — CHURCH — Belmont Methodist Church having plans prepared by G. D. Waller, Independent Life Bldg., brick and stone church and auditorium, 21st and Acklen Aves. $150,000.

O., Bellefontaine—HIGH SCHOOL—Bd. Educ. having sketches made Junior High School, 2 story and basement, brick and concrete, incl. gymnasium. $200,000.

O., Cincinnati — NURSES HOME — Childrens Hospital, Elland Ave., having plans prepared by Elzner & Anderson, Denton Bldg., 3 story and basement, 100 x 165 ft., brick and rein.-con., plain foundation, Elland Ave. $200,000.

O., Dayton — CHURCH and PARISH HOUSE — St. Paul Evangelical Lutheran Church, L. Rogge, chn. building com., Ridgewood Ave., plans rein.-con., brick and stone, Wayne Ave. $500,000. Engineer and architect not selected.

O., Euclid — SCHOOL and PARISH HOUSE — May 15, by J. L. Collins, archt., 7016 Euclid Ave., 2 and 3 story, brick, steel and concrete, East 200th St. and Lake Shore Blvd., for Holy Cross Church, T. A. Kirby, pastor, 170 East 191st St. $150,000.

Mich., Detroit — SCHOOLS — Bd. Educ., 1354 Bway. Ave., having plans prepared by Verner, Wilhelm & Molby, archts. and engrs., Book Bldg., school, 1,200 seating capacity, Yellowstone Ave., $400,500; by McGrath, Dohmen & Page, 2231 Park Ave., 740 seating capacity, Boynton School site $277,400, and by Donaldson & Meier, 1214 Penobscot Bldg., 1,800 seating capacity $640,000, E. R. Little Co., 1925 Ford Bldg., engrs. for both; by Smith, Hinchman & Grylls, 800 Marquette Bldg., archts. and engrs., 1,800 seating capacity, Hawthorne and Lantz Sts., $579,300, all foregoing 2 story and basement, rein.-con., brick and steel, plain foundations.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., having plans prepared by Malcolmson & Higginbotham, 1219 Griswold St., 2 story and basement, 1,200 seating capacity, rein.-con., brick and steel, plain foundation, Roosevelt Field. $640,300. McColl, Snyder & McLean, 2348 Penobscot Bldg., engrs. Noted Mar. 18.

Ill., Chicago—CHURCH—Grace Methodist Church, 157 Locust St., C. Copeland Smith, pastor, having plans prepared by Thielbar & Fugard, 219 East Superior St., 16 story, 325 ft. tower and basement, 106 x 155 ft., Rush and Oak Sts. $2,200,000.

Wis., La Crosse—HIGH SCHOOL—Bd. Educ., W. Luening, pres., having plans prepared by Merman & Skogstad, Linker Bldg., 3 story and basement, brick, tile and concrete addition, plain foundation, here. $200,000.

Wis., Madison—CHURCH—St. Andrews Church, J. F. Bloodgood, pastor, 113 Spooner St., having plans prepared by A. Peabody, State Capitol Bldg., 2 story, 60 x 132 ft., brick, rein.-con. and Colfax stone, plain foundation, Spooner St. Noted Jan. 28.

Wis., New Richmond—HIGH SCHOOL—Bd. Educ. having plans prepared by Parkinson & Dockendorf, LaCrosse, rebuilding 2 story and basement, 80 x 130 ft., rein.-con., brick and steel; plain foundation, recently destroyed by fire. $150,000.

Wis., Wausau—CHURCH—First Presbyterian Congregation, 408 Grant St., having plans prepared by Coolidge & Hogdon, 134 La Salle St., Chicago, Ill., 2 story, brick and stone, plain foundation, Grant and 4th Sts. $200,000. Noted Mar. 8.

Wis., West Allis—HIGH SCHOOL—Bd. Educ., M. C. Henika, clk., plans Junior High School, 2 story and basement, rein.-con., brick, tile and concrete, plain foundation. $180,000. Engineer and architect not selected.

Wis., West Allis—SCHOOL—Bd. Industrial Educ., S. Moore, pres., plans Vocational School, 3 story and basement, brick and concrete, plain foundation, Colburn Ave. $100,000-$150,000. Engineer and architect not selected.

Ia., Bedford — SCHOOL — Bd. Educ. having plans prepared by Keffer & Jones, 204 Masonic Temple Bldg., Des Moines, new school. $160,000 bonds voted for same. Noted Apr. 22.

Kan., Kansas City—CHURCH—Central Christian Church Congregation, 2700 Wabash Ave., A. C. Finch, pastor, 952 Sandusky St., plans rein.-con. and brick, 9th and Armstrong Sts. $150,000. Engineer and architect not selected.

Kan., Lindsburg — COLLEGE — Bethany College plans new building. $200,000. Engineer and architect not selected.

Kan., Ottawa—HIGH SCHOOL—Election May 25, $210,000 bonds new Junior High School, for Independent School Dist. H. E. Rogers, city clk.

Minn., Minneapolis — FIELD HOUSE — University of Minnesota, F. D. Snyder, pres. Bd. Regents, Administration Bldg., having plans prepared 1 or 2 story and basement athletic field house, approximately 300 ft. long, rein.-con. and brick, campus. $300,000. Engineer and architect not announced.

Mo., Kansas City—NURSES HOME—Sisters of St. Marys, St. Marys Hospital, 2800 Main St., having plans prepared by Wilkinson & Crans, Interstate Bldg., 3 story and basement, 97 x 170 ft., rein.-con., plain foundation, Baltimore Ave. $300,000.

Mo., Kansas City—UNIVERSITY—Lincoln & Lee University, 1121 McGee St., Kansas City, having preliminary plans prepared by Shephard & Wiser, 1208 R. A. Long Bldg., Kansas City, (1st unit) includes administration building, science hall, chapel, library and liberal art building. To exceed $150,000.

Mo., St. Louis — CHURCH and COMMUNITY — Galilee Baptist Congregation, c/o M. Owens, pastor, 4367 Enright Ave., having preliminary plans prepared by Plato & Evans, 608 West Walnut St., Louisville, Ky., 4 story and basement, 105 x 131 ft., rein.-con., brick and stone, Pine St. at Ewing Ave. $300,000.

Ark., Little Rock—CHURCH and SUNDAY SCHOOL—First Christian Church, H. G. Knowles, 1015 Louisiana St., pastor, having preliminary plans prepared 2 and 4 story and basement church and Sunday school, 10th and Louisiana Sts. $250,000.

Tex., Abilene—CHURCH—First Baptist Congregation, c/o pastor, plans brick and rein.-con. church. $150,000.

Tex., Eastland—HIGH SCHOOL—Bd. Educ., J. B. Caton, pres., having plans prepared by D. S. Castle 701-4 Alexander Bldg., Abilene, 2 story and basement, rein.-con., brick and stone, plain foundation. $150,000.

Ore., Portland — COLLEGE — Concordia College (Lutheran), East 28th and Holman Sts., having plans prepared by A. E. Doyle, Worcester Bldg. (1st unit) twin buildings. Total $4,000,000.

Calif., Los Angeles — CHURCH — First Unitarian Church, 925 South Flower St., having plans prepared by Allison & Allison, Hibernian Bldg., church, 8th St. $200,000.

Calif., Modesto — CHURCH — First Methodist Episcopal Church, A. C. Stevens,

Buildings—Educational, Religious (Cont.)

pastor, having plans prepared, fireproof church, 16th St. $200,000.

Calif., San Mateo — MONASTERY — Dominican Nuns of Corpus Christie Monastery, 1090 Eddy St., San Francisco, had plans prepared by Beezer Bros., 1915 Steiner St., San Francisco, rein.-con. and pre-cast stone, group buildings, Poplar St. $250,000.

Calif., San Rafael — DORMITORY — Dominican College, had plans prepared by A. M. Cauldwell, 251 Kearny St., San Francisco, (1st unit) group 3 story, frame and stucco buildings. $150,000.

Calif., Stockton — CHURCH — First Congregational Church having plans prepared by W. Wurster, Whitecotton Hotel, Berkeley, rein.-con. church, Madison and Willow Sts., here. $150,000. Noted Apr. 8.

Ont., Newmarket — SCHOOL — High School Bd., W. J. Patterson, chn., soon takes bids 2 story and basement, 8 room, rein.-con., brick and steel, plain foundation. $150,000. Burden & Gouinlock, 101 King St. W., Toronto, archts. Noted Feb. 11.

Ont., Port Arthur—SCHOOLS—Bd. Educ. plans 2 story and basement, rein.-con., brick and steel, technical and public schools, plain foundations. $300,000-$350,000. Engineer and architect not selected.

Ont., Stratford — SCHOOL — Bd. Educ. having plans prepared by S. B. Coon & Son, 4 St. Thomas St., Toronto, 3 story and basement, 10 room, rein.-con., brick and steel addition to Collegiate Institute, plain foundation. $175,000.

Cuba — SCHOOLS — Dept. Pub. Wks., Havana plans schools. $10,000,000. M. A. Coroalles, Havana, state ch. engr.

Bids Desired

Me., Mexico — SCHOOL — Town, A. E. Small, chn. building com. taking bids Junior High and Grade School, 2 story and basement, 70 x 165 ft., brick. $175,000. Bunker & Savage, 236 Water St., Augusta, archts.

Mass., Allston (sta. Boston)—SCHOOL—May 27, by Schoolhouse Dept., Boston, 1 story and basement, 85 x 105 ft., brick and stone, Brainard Rd., here. $150,000. E. I. Wilson, 109 State St., Boston, archt.

Mass., Hanover—HIGH SCHOOL—Town, School Dept., Town Hall, taking bids Senior and Junior High School, 2 story and basement, 115 x 120 ft., brick and stone, Hanover St. To exceed $150,000. J. W. Beal Sons Co., 185 Devonshire St., Boston, archts. Noted May 13.

Mass., Southbridge — CHURCH — Sacred Heart Parish, V. Epinard, pastor, taking bids 1 story and basement, brick and stone, Carlton St. $150,000. J. W. Donahue, 476 Main St., Springfield, archt. Noted Dec. 24.

Mass., Springfield — HIGH SCHOOL — City, Pub. Buildings Dept., taking bids 1 story and basement, 125 x 140 ft., brick and stone, addition, Liberty St. To exceed $150,000. E. C. and J. C. Gardner, 33 Lyman St., archts.

Mass., Worcester—SCHOOL—May 24, by Worcester Trade School, C. F. Marble, chn., brick and steel addition, Prescott St. $150,000. L. W. Briggs Co., 314 Main St., archts.

R. I., Woonsocket—CHURCH—May 31, by St. John the Baptist Church, 1 story and basement, brick, steel and limestone, Main St. $200,000. W. Fontaine, 285 Main St., archt. Noted Dec. 10.

N. Y., Brooklyn—SCHOOL—May 26, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., P. S. 203, Avenue M from East 51st to 52nd Sts., here, for Bd. Educ., 500 Park Ave., New York City. Former bids rejected. Noted May 13.

N. J., Irvington (br. Newark)—SCHOOL —May 26, by Bd. Educ., school, Mt. Vernon Ave. $270,000. Kleeman & Lansing, 1021 Broad St., Newark, archts.

N. J., Perth Amboy—SCHOOL—June 3, by Middlesex Co., Vocational Bd., New Brunswick, vocational school, here. $250,000. Greisen & Tuzik, Perth Amboy, archts. Noted Dec. 31.

D. C., Wash.—SCHOOL—June 2, by Dist. Comrs., District Bldg., McKinley Manual Training School, with 2 auditorium, power house, etc., 2 story and basement, 300 x 300 ft. brick and stone. $2,250,000. A. L. Harris, municipal archt.

La., Gretna — SCHOOLS — May 25, by Jefferson Parish Bd. Educ., V. A. Pitre, pres., 1 story school in Ward 7 and 2 story school in Ward 8, both brick or hollow tile, also 2 story brick school in Ward 9, T. L. Perrier, 310 Carondelet St., New Orleans, archt.; two 1 story schools in Ward 6, and 1 story schools in Wards 3 and 5, all timber, W. R. Burk, Balter Bldg., New Orleans, archt.; and 2 story brick school in Ward 4, Jones, Roessle & Olschner, Maison-Blanche Bldg., New Orleans, archt.

O., Cleveland—SCHOOLS—May 24, by Bd. Educ., F. G. Hogen, dir., East 6th St. and Rockwell Ave., two 120 x 220 ft. schools, one East 131st St. and Benham Ave., and other East 185th St. and Muskoka Ave., also 76 x 218 ft. and 40 x 48 ft., West 54th St., all 3 story and basements, brick, steel and concrete. $650,000 each. G. M. Hopkinson, Auditorium Garage Bldg., archt. Noted Apr. 15.

Mich., Belleville—HIGH SCHOOL—May 25, by E. Dicks, secy. Bd. Educ., 2 story and part basement, 62 x 213 ft., and 58 x 85 ft., rein.-con., brick and steel, plain foundation, Columbia St. $250,000. Verner, Wilhelm & Molby, 824 Book Bldg., Detroit, archts.

Mich., East Lansing — INDUSTRIAL CHEMISTRY BUILDINGS—May 26, by H. H. Halladay, secy. State Bd. Agriculture, 3 story and part basement, rein.-con., brick and steel, plain foundation, at Michigan State College. $300,000. Bowd & Munson, Lansing, archts.

Mich., Fordson—SCHOOLS—May 26, by F. E. Yinger, secy. Bd. Educ., two 2 story and basement, rein.-con., brick and steel, plain foundations, one on Chase Rd. and Gold Ave., $250,000, and other Salina Ave. $225,000. H. J. Keough, 3440 Cass Ave., Detroit, engrs. and archts.

Wis., Superior—CATHEDRAL—June 1, by L. Preuss, archt., 612 Laclede Gas Bldg., St. Louis, Mo., 1 story and basement, 80 x 200 ft., rein.-con., plain foundation, here, for J. J. Pinten, bishop. $250,000. Widmer Eng. Co., 612 Laclede Gas Bldg., St. Louis, Mo., engrs. Noted May 6.

Mo., Webster Groves (br. St. Louis) — HIGH SCHOOL—See "Contracts Awarded."

Tex., Mercedes—HIGH SCHOOL—June 1, by Bd. Educ., 2 story, rein.-con. and brick, plain foundation. $150,000. H. P. Smith, Natl. Bank of Commerce Bldg., San Antonio, archt.

Tex., San Angelo—SCHOOL—May 29, by Bd. Educ., 2 story rein.-con., brick and stone, plain foundation. $150,000. Phelps & DeWees, c/o Gunter Bldg., San Antonio, archts. Noted Mar. 25.

Calif., Los Angeles—SCHOOL—May 26, by Bd. Educ., concrete and brick school, incl. gymnasium, West 2nd St. $200,000 or more. Architectural Dept. of owner, archts.

Calif., San Leandro—SCHOOLS—May 27, by Trustees San Leandro School Dist., two 2 story, rein.-con. grammar school additions. $150,000. J. J. Donovan, Tapscott Bldg., Oakland, archt. Noted Feb. 4.

Bids Received

Vt., Bellows Falls — HIGH SCHOOL — Town, Building Comn., Apr. 30, 3 story and basement, 135 x 170 ft., rein.-con. and brick high school, from Duplex Constr. Co., Glen Falls, N. Y. Noted Apr. 22.

Mass., Dorchester (Boston P. O.) — SCHOOL — Schoolhouse Dept., Boston, 2 story and basement, 115 x 175 ft., granite and limestone addition, plain foundation, Minot Dist., here, from M. B. Kelleher, 21 North Monroe Terrace, Dorchester, $187,390.

Mich., East Lansing — SCHOOL — Bd. Educ., May 7, high school, from Reniger Constr. Co., Lansing, $174,064.

Mass., West Newton (Ind. br. Boston)—HIGH SCHOOL — City of Newton, Dept. Pub. Buildings, City Hall, West Newton, May 12, Junior High School, 2 story and basement, rein.-con., brick and stone, Washington St., from B. W. Neal, Inc., 293 Boylston St., Boston, $390,491; heating and ventilating, from J. S. Cassedy, 133 Austin St., Cambridge, $61,700. Noted Apr. 29.

N. Y., New York — SCHOOL — W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, May 13, general contract P. S. 101, East 111th St., here, from Kenny Bros., Inc., 33 Old Bway., $419,770; heating, from Heat Control Serv. Co., 759 Park Pl., $49,339. Noted May 6.

N. J., West New York (Ind. br. Weehawken) — HIGH SCHOOL — Bd. Educ., Municipal Bldg., May 6, Memorial High School, Park Ave., Bway., 11th and 12th Sts., from Auf Der Heide Constr. Co., West New York, $613,000. Noted Apr. 29.

Md., Baltimore — SCHOOL — Mayor and City Council, May 12, 2 story and basement, irregular shaped, brick and steel, plain foundation, Patterson Park Ave. and McElderry St., from DeCou & Davis, 9 West Chase St., $261,700. Noted Apr. 29.

Ill., Peoria—HIGH SCHOOL—Bd. School Inspection, G. T. Monst, secy., general contract May 6, Blaine Sumner High School, 3 story and basement, 24 room and auditorium, rein.-con. and brick, plain foundation, Blaine St., from V. Jobst & Sons, Lehman Bldg., $305,700; heating and plumbing, from J. M. Shea & Co., 1025 South Adams St., $62,094. Noted Apr. 22.

Minn., Minneapolis — SCHOOL — Bd. Educ., 305 City Hall, May 5, general contract 2 story and basement, rein.-con., brick and stone, 50th St. and Humboldt Ave. S., from L. E. Brophey & Co., 531 Lyndale Ave. N., $133,000.

Calif., Oakland—HIGH SCHOOL—Bd. Educ., May 4, general contract Frick Junior High School, group brick and concrete buildings, from R. W. Littlefield, 357 12th St., $333,000; plumbing and ventilating, from G. A. Schuster, 21st and Grove Sts., $54,747. Noted Apr. 22.

Calif., Van Nuys — SCIENCE and MANUAL ARTS—Los Angeles Bd. Educ., May 5, 2 story, 75 x 225 ft. domestic science and 1 story 72 x 223 ft. manual arts buildings, general contract, from Witt & Chute, 2516 West Santa Barbara Ave., Los Angeles, $135,725. Noted Apr. 29.

Contracts Awarded

Me., Augusta — CHURCH — St. Mary's Roman Catholic Parish T. J. McLaughlin, pastor, brick, steel and stone Sewell and Western Aves., to L. Mallo & Sons, 51 East Ave., Lewiston. Archts. est. $200,000.

Vt., Proctor—CHURCH—Union Church Society, 1 story and basement, brick and stone, plain foundation, to A. A. Austin, Rutland. Archts. est. $150,000.

Mass., Boston—SCHOOL—Cathedral of Holy Cross, W. Finnigan, pastor, 3 story and basement, 120 x 150 ft., brick and stone, Malden St., to Walsh Bros., 150 Hampshire St., Cambridge. Archts. est. $200,000. Noted Apr. 15.

Mass., Cambridge (Boston P. O.) — SCHOOL—Shady Hill School, C. Taylor, principal, seven 1 story buildings, six 38 x 85 ft., and other 30 x 100 ft., brick and timber, to G. Skelton, 27 Holyoke Rd., Somerville. Archts. est. to exceed $150,000. Noted May 13.

Mass., Northampton — SCHOOL — City, Bd. Educ., 2 story and basement, 65 x 100 ft., brick and stone, Bridge St., to Adams & Mahoney, 46 Orange St., Westfield. Archts. est. $150,000. Noted May 6.

Mass., Seekonk—SCHOOL—Town, E. J. Humer, chn. building com., 2 story and basement, brick and stone, to W. H. Noonan, 191 Warren St., Providence, R. I. Archts. est. $150,000.

Mass., Worcester—SCHOOL—City, Pub. Building Dept., City Hall, 2 story and basement, brick, steel and limestone, Granite St., to C. T. Rocheford, 58 Front St., $175,030. Noted May 13.

Conn., Bridgeport—SCHOOL—Bd. Educ., altering and constructing 2 story and basement brick addition, Huntington Rd. and Boston Ave., to T. Stewart, 84 Ashley St. Archts. est. $175,000. Noted May 6.

N. Y., Brooklyn—SCHOOL—Bd. Educ., 500 Park Ave., New York City, general contract P. S. 208, Avenue D from East 48th to East 49th Sts., here, to G. F. Driscoll Co., 6th Ave. and Bergen St. $282,875. Noted May 13.

N. Y., Glens Falls—CHURCH—First Presbyterian Church, 1 story and basement, brick and stone church, to E. G. Miner Building Co., 25 Foster St., Worcester, Mass. Archts. est. to exceed $150,000.

N. J., Haddonfield—HIGH SCHOOL—Bd. Educ., B. M. Wilson, secy., Lincoln Ave. and Chestnut St., 2 story and basement, 167 x 211 ft., and 72 x 98 ft., brick and steel, Kings Highway E., to H. J. Homan Co., 18th and Cherry Sts., Phila., $374,430. Noted May 6.

Del., Wilmington—SCHOOL and AUDITORIUM—Ursiline Nuns, 2½ story and basement, 114 x 198 ft., stone and steel plain foundation, Penna Ave. and Franklin St., to Joyce & Kerrigan, Wilmington. Noted May 6.

N. C., High Point — HIGH SCHOOL — School Bd., C. Tomlinson, chn., general contract 225 x 365 ft. high school, to J. E. Beaman Constr. Co., Raleigh, $459,756; heating and ventilating, to W. W. Dick, Greensboro, $55,490; plumbing, to Burlington Hardware Co., Burlington, $25,765. Grand total $541,005. Noted Sept. 24.

Fla., Jacksonville—SCHOOLS—Bd. Pub. Instruction for Duval Co., general contract 3 story, brick, stone and rein.-con., two high schools, one at Springfield and one at Riverside, to Griffin Constr. Co., 1305 West Forsyth St., Jacksonville, and Bona Allen Bldg., Atlanta, Ga., $932,950. Noted Mar. 25.

Tenn., Nashville — DORMITORIES — Tennessee Home for Feeble Minded, Donelson St., L. T. Pope, comr. institutions, two 3 story and basement, concrete and brick, Lebanon Rd., to J. B. Regan Consr. Co., 117 5th Ave. N., $150,000.

Buildings—Educational, Religious (Cont.)

O., Bowling Green—PHYSICAL EDUCATIONAL — Bd. Trustees, Bowling Green, State Normal School, 1 and 2 story, 30 x 210 ft., rein.-con., brick, steel and tile physical educational building, to L. Herman, Bowling Green, $128,089. Noted Apr. 1.

O., Cambridge — CHURCH — Methodist Protestant Congregation, brick and Indiana limestone church, to E. J. Patterson & Son, Barnesville, approximately $150,000.

O., Columbus—CHURCH—First Baptist Church, J. K. Bye, ch. building com., East Broad St., 2 story, 65 x 92 ft., stone and concrete addition, to S. B. Ridenour, 73 12th Ave., approximately $150,000.

O., Cincinnati — CHURCH — St. Monica Church, 1 story and basement, 87 x 162 ft., brick, stone and rein.-con., plain foundation, Fairview Ave., to M. J. Roche Constr. Co., South Ohio Bank Bldg., $300,000.

Ind., Evansville—SCHOOL—Bd. Educ. general contract 2 story and basement, 108 x 178 ft. school, to C. Kanzler & Son, 500 Furn Bldg., $202,845. Noted Apr. 29.

Ind., Richmond — CHURCH — Friends Church, L. T. Jones, pastor, general contract 2 story and basement, 135 x 170 ft. church, to R. Bryant, Franklin. Archts. est. $200,000.

Ill., Chicago—SCHOOL—Chicago Latin School, 18 East Davidson St., general contract 3 and 4 story, 94 x 132 ft., rein.-con. and brick, North Dearborn Parkway near North Ave., to H. F. Friestedt Co., 131 North Michigan Ave. Archts. est. $500,000. Noted Apr. 1.

Wis., Black River Falls—SCHOOL—Bd. Educ., A. P. Jones, clk., 2 story and basement, 63 x 113 ft., rein.-con., brick and steel, plain foundation, to A. Judeoin, Baraboo. Noted Apr. 29.

Wis., Madison—CHURCH—St. Bernards Catholic Church, c/o W. Eggers, pastor, 735 Atwood Ave., and Small & Flad, archts., Ellsworth Bldg., 1 story, 71 x 154 ft., rein.-con., brick and steel, plain foundation, Atwood St., to A. Nussbaum, 23 North Pickney St. Archts. est. $150,000. Noted Apr. 29.

Ia., Iowa City—FIELD HOUSE—Proudfoot, Rawson & Souers, archts., and engrs., 810 Hubbell Bldg., Des Moines, 3 story and basement, 185 x 460 ft., brick and steel, plain foundation, here, to A. H. Newmann Co., 519 Hubbell Bldg., Des Moines, for State University of Iowa. $240,000. Noted May 13.

Mo., Webster Groves (br. St. Louis) — HIGH SCHOOL—Bd. Educ. will build 2 story, 36 x 100 ft., rein.-con. and brick addition, Salem and Bradford Sts., by subcontracts, under supervision of W. B. Ittner, archt., 911 Locust St. $160,000. Brick masonry contract for above awarded to Reinschmidt Contg. Co., 1302 Arcade Bldg. Noted Apr. 1.

Tex., Dallas — DORMITORY — Southern Methodist University, c/o L. W. Baley, 3 story and basement, rein.-con., brick and steel, campus, to West Lake Constr. Co., c/o H. B. Freedman, 402 1st Natl. Bank Bldg., Ft. Worth, $150,000.

Tex., Ft. Worth—HIGH SCHOOLS—E. A. Corbett, pres. Bd. Educ., W. T. Waggoner Bldg., Arlington Junior High School, 2 story and sub-basement, 167 x 263 ft., brick, stone, and rein.-con., incl. boiler room, Arlington Heights, to K. H. Muse, 200 West Railroad St., $254,000. Noted Apr. 22.

Calif., Crockett—HIGH SCHOOL—John Swett Union High School Dist., general contract steel, concrete and brick high school, to F. Cress, Crockett, $154,582. Noted May 13.

Calif., Los Angeles — CHURCH — First Baptist Church, 3 story and basement, 200 x 242 ft., rein.-con., incl. school rooms, Westmoreland Ave., to Weymouth, Crowell Co., 2104 East 15th St., to exceed $500,000. Noted Oct. 29.

Calif., San Francisco—MEN'S SHELTER—S. O'Brien, archt., 724 Market St., 2 story (ultimately 5 story) and basement, rein.-con., Natoma St., to J. A. Bryant, 185 Stevenson St., for Roman Catholic Archbishop of San Francisco, 1100 Franklin St. $155,200. Noted Feb. 18.

Calif., San Leandro—SCHOOL and CONVENT—St. Marys Convent, J. T. Hunt, pastor, two 2 story, rein.-con. buildings, to G. Petersen, 1841 Santa Clara St., $153,200. Noted Mar. 11.

Ont., Welland — SCHOOL — Bd. Educ., general contract 2 story and basement, 8 room, rein.-con., brick and steel, plain foundation, North Main St., to W. J. Hickey, 29½ Main St. Archts. est. $150,000. Noted Mar. 4.

Federal Government Work

Proposed Work

Mass., Bedford—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., F. T. Hines, dir., purchased "Colman Tract" of 400 acres neuropsychiatric hospital, here. Noted Mar. 25.

Mass., Boston—Circulating Loop—Spec. 5190—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans salt water circulating pipe from harbor to central power plant, etc. at Navy Yard, here. L. E. Gregory, ch. of bureau.

Va., Yorktown—Fuel Depot—Spec. 5116—Bureau Yards & Docks, Navy Dept., Wash., D. C., indefinately postponed taking bids naval fuel depot, foam fire protection, here. Noted Apr. 22.

Tex., Fort Sam Houston (sta. San Antonio) — Barracks — Constructing Quartermaster, War Dept., Wash., D. C., soon takes bids barracks for 2nd Division, Division Ave. and Wilson St. $500,000.

Washington—Sewerage System, etc.—Spec. 5195—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans improving sewerage system, at Naval Radio Compass Station, at Klipsan Beach; also altering quarters, tennis court, etc., at Naval Radio Station, North Head.

Bids Desired

N. H., Nashua—Remodeling—June 3, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here; adv. E. N.-R. May 20.

Mass., Boston — Mezzanine — June 1, by Treas. Dept. at office Supervising Archt., Wash., D. C., mezzanine floor in U. S. Post Office, here.

N. Y., New York — Tower — June 11, by U. S. Engineer Office, Army Bldg., 100 ft. steel tower on concrete foundations, here; adv. E. N.-R. May 20.

Pa., Pittsburgh — Houses — June 16, by U. S. Engineer's Office, two 2 story lockkeepers houses, at Lock No. 4, Allegheny River; adv. E. N.-R. May 20.

D. C., Wash.—Hangar—June 14, at office Constructing Quartermaster, Munitions Bldg., steel hangar at Bolling Field, here; adv. E. N.-R. May 20. Noted Feb. 4.

W. Va., Huntington—Docking Caissons—June 12, by U. S. Engineer's Office, 3 steel docking caissons for Ohio River.

Ga., Fort Benning—Laboratory—June 10, by Constructing Quartermaster, permanent laboratory building at hospital; adv. E. N.-R. May 20.

Ky., Louisville—Hulls, etc.—June 14, by U. S. Engineer Office, P. O. Box 72, 3 steel maneuverboat hulls and derricks; adv. E. N.-R. May 20.

O., Dayton — Sewer — May 26, by Constructing Quartermaster, storm water sewerage system, at Wright Field.

Mich., Presque Isle—Breakwater—June 7, by U. S. Engineer Office, Duluth, Minn., removing timber superstructure and replacing with concrete superstructure on breakwater, Marquette Bay, at harbor, here.

Ill., Jacksonville—Extension—May 26, by Treas. Dept. at office Supervising Archt., Wash., D. C., extension to U. S. Post Office, here.

Wis., Green Bay—Dredging—June 11, by U. S. Engineer Office, Milwaukee, dredging inner channel harbor, here; adv. E. N.-R. May 20.

Minn., St. Cloud—Barn, etc.—June 15, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., rein.-con., brick and tile dairy barn, laundry and water softening plant, at U. S. Veterans Hospital 101, here. F. T. Hines, dir.; adv. E. N.-R. May 20.

Mo., Klondike—Revetment—May 25, by U. S. Engineer Office, 707 Postal Telegraph Bldg., Kansas City, about 1,750 lin.ft. revetment on left bank Mississippi River, about 2 mi. east of here.

Ark., Hot Springs—Power Plant—June 10, by Constructing Quartermaster, Army and Navy General Hospital, power plant and laundry building, etc., here.

Nevada—Sewers, etc.—May 28, by U. S. Property and Disbursing Officer, Jefferson City, Mo., sewers and sewage disposal plant, at Camp Clark, here.

Calif., Mare Island—Chimney—Spec. 5193—June 9, by Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete chimney at Navy Yard, here.

Bids Received

Mass., South Boston (sta. Boston)—Spec. 5185—Bureau Yards & Docks, Navy Dept., Wash., D. C., May 5, dredging at Naval Dry Dock, here, from Bay State Dredging & Constr. Co., 60 Condor St., East Boston, $66,500. Noted Mar. 25.

R. I., Newport—Tile Lining—Spec. 5213—Bureau Yards & Docks, Navy Dept., Wash., D. C., tiling swimming pool at Naval Training Station, here, from E. S. Wires Co., Boston, Mass., (1) $7,750, (2) $425 and (3) $680. Noted Apr. 29.

Conn., New London—Refrigerating Plant—Spec. 5199—Bureau Yards & Docks, Navy Dept., Wash., D. C., automatic refrigerating plant, with 2 ton motor driven ammonia plant, refrigerating machine, at Naval Submarine Base, here, from Bay State Constr. & Supply Co., 200 Causeway St., Boston, Mass. (1) $3,745 (2) [illegible] and (3) $1,597; from Milwaukee Steam Appliance Co., West Allis, Wis., (1) [illegible]. Noted Apr. 29.

N. Y., Tupper Lake—Fence and Gates—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., fence and gates at U. S. Veterans Hospital, here, from Buffalo Fence Constr. Co., Ellicott Bldg., Buffalo, $13,[illegible] (60 days).

Md., Annapolis—Mains, etc.—Spec. 5203 and 5175—Bureau Yards & Docks, Navy Dept., Wash., D. C., May 12, underground and subaqueous water mains at U. S. Naval Academy, here, from Virginia Eng. Co., Newport News, Va., $8,000; altering coal handling plant, from Concrete Oil Tank Co., Mills Bldg., Wash., D. C., $10,[illegible]. Noted Apr. 29.

D. C., Wash.—Power Plant—U. S. Engineer Office, 1068 Navy Bldg., May 4, power plant for Dist. of Columbia water supply, from Parson & Hyman, Equitable Bldg., (1) $1.50 (2) $5 (3) $10 (11) $0.07 (12) $0.10 (14) $0.10; from McLean Contg. Co., Fidelity Bldg., Baltimore, Md., (4) $0.10 (6) $1.25 (10) $0.08 (13) $0.12 (16) $225; from Ligon & Ligon, 200 East Lexington St., Baltimore, Md., (8) $17.50 (9) $0.075 (17) $12,000; from Allen Pope, Arizona Ave. and Upton St. N. W., (5) $3 (15) $19; from C. H. Tompkins Co., 1612 Park Rd., (7) $18.75. Noted Apr. 8.

Ill., Great Lakes (mail Waukegan) — Apartment—Spec. 5158—Bureau Yards & Docks, Navy Dept., Wash., D. C., May 12, brick, steel and stone apartment for officers at Naval Training Station, here, from Peterson-Colwell, Inc., 646 Builders Exch., Minneapolis, Minn., $83,688. Noted Apr. 29.

Wis., Milwaukee—Concrete—C. Hubbard, supt. Lighthouses, Federal Bldg., Apr. 29, 960 cu.yd. concrete at North Breakwater Lighthouse, from E. E. Gillen Co., 288 East Water St., $11,249 alternate $12,188. Apr. 22.

Wash., Easton—Canal—Bureau Reclamation, Ellensburg, Apr. 29, Kittitas Main Canal, Div. 1, Yakima Project, near here, from Waldson & Bergstrom, Spokane, $185,668. Noted Apr. 1.

Calif., San Francisco — Remodeling — Treas. Dept. at office Supervising Archt., Wash., D. C., May 7, remodeling kitchen, mess hall and laundry at U. S. Veterans Hospital, here, from Vogt & Davidson, 185 Stevenson St., $36,237.

Contracts Awarded

Mass., Chelsea—Quarters—Spec. 5168—Bureau Yards & Docks, Navy Dept., Wash., D. C., 2 double quarters, concrete, brick and steel, at U. S. Naval Hospital, here, to S. Pasquale, 9 Stedman St., Boston, $56,904 (180 days). Noted May 6.

Pennsylvania — Recreation, etc. — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., recreation building, etc., at U. S. Veterans Hospital, Aspinwall, here, to Murch Bros. Constr. Co., 1856 Ry. Exch. Bldg., St. Louis, Mo., $102,000. Noted May 6.

Pa., Fort Mifflin (mail Essington) — Dredging—U. S. Engineer Office, 1505 Race St., Phila., dredging 47,000 cu.yd. in Delaware River, here, to Amer. Dredging Co., Phila., Pa., $16,082. Noted May 6.

D. C., Wash.—Granite—Executive Officer Arlington Memorial Bridge Com., granite for Arlington Memorial Bridge across Potomac River, to Stone Mountain Granite Co., Stone Mountain, Ga., $207,000; and to North Carolina Granite Co., Mt. Airy, N. C., $1,615,000. Noted Apr. 29.

D. C., Wash.—Piping—U. S. Veterans Bureau, Arlington Bldg., moving and installing utility piping, etc., at Walter Reed General Hospital, to G. E. Wyne, 2525 Penn Ave. N. W., $105,000. Noted Apr. 29.

D. C., Wash.—Quarters—Spec. 5087—Bureau Yards & Docks, Navy Dept., Wash., D. C., extending nurses quarters at U. S. Naval Hospital, here, to Devault & Detrick, Massillon Rd., Canton, O., $74,982. Noted May 6.

Tenn., Memphis—Levee—U. S. Engineer Office, 443,000 cu.yd. levee in St. Francis Levee Dist., Item 20, to T. W. Roach, Memphis, $112,522.

Unclassified

Proposed Work

Playground, etc.—Boston, Mass.—City, Pub. Wks. Dept., plans playground and concrete stand, Randolf St. $25,000. J. H. Sullivan, comr.

Transmission Lines—Brockton, Mass.—Edison Electric Illumination Co., plans 14 mi. double transmission lines from Dupont Circle Substation to Montaup Electric Co. lines, incl. 7,500 kva. synchronous condenser, offices and starting equipment, station service transformers, etc. Stone & Webster, Inc., 147 Milk St., Boston, engrs.

Transmission Line — Somerset, Mass. — Montaup Electric plans 14 mi. 60 kv. circuit from Somerset Station to lines of Edison Electric Illuminating Co. of Brockton, incl. oil circuit breaker, lightning arrester and disconnecting switches. Stone & Webster, Inc., 147 Milk St., Boston, constr. engrs.

Camp Grounds—Providence, R. I.—State plans rebuilding camp grounds. $25,000 or more. A. C. Cole, adjutant.

Lighting Standards—Wallingford, Conn.—Electric Light Dept. plans lighting standards on Hall and Quimipiac Aves., Center, Colony and Elm Sts. $35,000.

Swimming Pool—Willow Grove, Pa.—E. Schoeppe, archt., 1437 Spruce St., Phila., making plans 6,700 sq.ft. concrete swimming pool, Willow Grove Park. M. Davis, Bellevue Court Bldg., Phila., lessee.

Grain Elevator—Franklin, Tenn.—Lillie Mill Co. having plans prepared by Horner & Wyatt, 300 Board of Trade Bldg., Kansas City, Mo., 40 x 100 ft. grain elevator, rein.-con., 3,100 bu. capacity, etc.

Street Light System — Detroit, Mich. — Pub. Lighting Comn., 174 East Atwater St., plans new street lamps throughout city, $350,000; 85 lamps on 3rd St. from Peterboro to Amsterdam Sts., $68,000; 85 lamps on Linwood St. from Grand Blvd. to Elmhurst Aves., $53,000; 19 lamps on Forest Ave. from Mt. Elliott to Gratiot Aves., $15,500 85 lamps on 12th St. from Grand Blvd. to Elmhurst Ave., $81,000; 82 lamps in Belle Isle Park, $72,000; on Vernor Highway from 18th to 24th Sts., $23,800; and extending service to new public buildings, $50,000.

Street Lighting System—St. Louis, Mo.—Business Men of District, c/o J. Darst, 105 North 8th St., making preliminary plans electric lighting system on about 1 mi. Grand Blvd. north and south of Olive St., incl. steel standards, 90 ft. apart, 3,000 cp. each unit.

Park, Playground, etc.—St. Louis, Mo.—F. W. Pape, comr., Dept. Parks & Playgrounds, Municipal Court Bldg., soon takes bids developing Penrose Park and constructing Kingshighway through park, $60,000; also developing Genevieve Strodtman playground, etc., $16,500.

Land Development — St. Louis, Mo. — Stedelin Bros., 823 North 4th St., purchased 50 acre subdivision tract, Gravois Rd. just outside city limits, and making preliminary plans developing same; incl. streets and sewers, etc.

Land Development—Waco, Tex.—Whit Rogers Realty Co. plans developing 45 acre subdivision, incl. water, sewers, gas, etc. $40,000. Private plans.

Dock, etc. — Vancouver, Wash. — Soon takes bids constructing dock and warehouse. $80,000.

Skating Rink—New Toronto, Ont.—Town Council plans ice skating rink, brick and concrete. $25,000. Engineer not selected.

Bids Desired

Timber Piles—Albany, N. Y.—May 21 (extended date), at office Albany Port Dist. Comn., 100 State St., timber piles and platform for bulkhead for Port of Albany. T. Fitzgerald, secy.; adv. E. N.-R. May 13.

Fill—Corona (Ind. Sta. Flushing), **N. Y.**—May 28, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, furnishing and placing fill in Corona Yard, and along Roosevelt Ave. east of Willets Point Blvd. Route 52, here.

Culvert, etc. — New Rochelle, N. Y. — June 9, by Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, excavating, grading and culvert for Approach Rd. from Pelham Rd. to Glen Island Park, here. Former bids rejected. J. Downer, ch. engr.; adv. E. N.-R. May 20. Noted May 13.

Tracking, etc.—New York, N. Y.—May 28, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., installing tracks in part Queensboro Subway line, here; also supplying track materials for constructing Rapid Transit Railroads, (Order 8).

Entrance and Exit Plazas—Jersey City, N. J.—May 24, by New York State Bridge & Tunnel Comn., Woolworth Bldg., New York City, constructing entrance and exit plazas, incl. curbing, sidewalks, granite block paving, etc., known as Contr. 26 of Holland Tunnel. T. Boettger, chn.

Wharf Sheds—Lake Charles, La.—June 1, by Louisiana Harbor & Terminal Dist., Assn. of Commerce Bldg., two 70 x 300 ft. steel wharf sheds. E. E. Shutts, Lake Charles, engr.

Transmission Line — Tennessee — See "Contracts Awarded."

Transmission Line—Kentucky—See "Contracts Awarded.

Heating and Ventilating—Detroit, Mich.—June 7, by Pub. Lighting Comn., 174 East Atwater St., heating and ventilating system, etc., for new municipal power and lighting plant. Smith, Hinchman & Grylls, 800 Marquette Bldg., engrs.

Transmission Line—Missouri—See "Contracts Awarded."

Crane Gantries, etc.—Otahulu, New Zealand—Sept. 30, by Railway Bd., Railway Bldg., Wellington, 2 crane gantries and 13 steel framed buildings.

Bids Received

Supports for Retaining Walls — Long Island City, N. Y. — Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, May 14, additional supports for retaining walls and abutment of Flushing Extension, Queensboro Subway, Agreement "EM," here, from N. A. Deiser, 280 Madison Ave., New York City. $52,803. Noted May 6.

Foundation, etc.—New York, N. Y.—B. M. Patten, comr. Pub. Markets, Municipal Bldg., May 13, viaduct foundations, ramp floors, etc. at Bronx Municipal Market. Exterior and 151st Sts., from C. Meads & Co., 217 West 14th St., $989,000. Noted May 6.

Park Development—Washington Crossing (mail Taylorville, Pa.) **N. J.**— State Bd. Conservation & Development, Trenton, developing state park here, landscaping, from J. H. Holcombe, Inc., 42 Pearl St., Trenton, $27,226; and masonry, from Jemison, Mealy & Felice, 338 Pennington Ave., Trenton, $4,205.

Bulkhead—Arabi, La.—Bd. State Engineers, Courthouse, New Orleans, 2,400 lin.ft. Martinez type creosoted bulkhead, here, from Highway Constr. Co., c/o State Engineer. New Orleans, $44,394.

Promenade — Detroit, Mich. — H. W. Busch, comr. Parks & Blvds., May 6, constructing brick, concrete and stone promenade around James Scott Water Fountain, on Bell Isle, from Gallagher-Fleming Co., 6500 Epworth Blvd., $37,000. Noted May 13.

Heating and Plumbing—Peoria, Ill.—See "Buildings—Educational, Religious."

Underground Conduits—Tacoma, Wash.—Bd. Pub. Wks., May 1, removing poles and electric wires and placing same in underground conduits on Commerce St., from F. A. Keasal & Co., Tacoma, $49,800.

Foundation—Los Angeles, Calif.—City, rein.-con. foundation for City Hall, North Main St., from United Bldg. & Finance Co., 1262 North Fair Oak St., Pasadena, $78,900.

Contracts Awarded

Heating and Ventilating — High Point, N. C. — See "Building — Educational, Religious."

Transmission Line — Kentucky — Kentucky-Tennessee Utilities Co., Mayfield, will build 22 mi. 33,000 volt transmission line from Murray to Mayfield, and rebuild distribution system at Murray. $30,000. Work will be done by day labor. Engineer not announced.

Transmission Line — Tennessee — Tennessee Electric Power Co., 540 Market St., Chattanooga, will build electric transmission line from Carthage to Gainsboro, via Granville and from Gainesboro to Livingston, by day labor. To exceed $25,000.

Storage Tanks—Franklin, Tenn.—Lillie Milling Co., general contract 10 rein.-con. storage tanks, 160,000 bu. capacity, to Industrial Eng. Co., 620 Kansas City Life Bldg., Kansas City, Mo.

Parkway — Cleveland, O. — Cleveland Metropolitan Park Bd., grading, driveways and improving Big Creek Parkway, to H. H. Heffner, Pearl Rd., $53,125.

Foundation — Huntington, Ind. — See "Buildings — Commercial under Proposed Work."

Grade Separation—Fordson, Mich.—Ford Motor Co., Fordson and Highland Park, constructing Eagel Ave. grade separation, incl. depression of street and partial elevation of 7 Fordson yard and 4 Pere Marquette tracks and Pennsylvania right-of-way, carrying street under highway at Mulkey and Wren Aves., 100,000 cu.yd. earth excav., and 22,000 cu.yd. rein.-con., to Blair Constr. Co., 602 Park Ave. Bldg., Detroit, $1,200,000.

Coal Bunker, etc. — Janesville, Wis. — Hough Shade Co., 1059 Jackson St., coal bunker, 12 ft. high, rein.-con. and steel, also warehouse, to A. Summers & Sons Co., 14 North Division St. Noted May 13.

Swimming Pool, etc.—Des Moines, Ia.—Dept. Parks & Pub. Property, J. G. Rounds, supt., 1 story, 46 x 130 ft. rein.-con. bath house, to Garmer-Stiles Co., 519 14th St., $14,719; clearing site and excavation for 85 x 150 ft. rein.-con. swimming pool, to F. Cram & Sons, Southern Surety Bldg., $4,320; concrete work in pool, electrolier foundations, puurifiers, etc., to L. A. Mullins, Des Moines, $15,361; pressure filters, to Permutit Co., Des Moines, $17,250, centrifugal pumps and motors, piping, valves, etc., to Iowa Machinery & Supply Co., 317 Court St., $2,284, etc. Grand total $57,934. Noted Feb. 4.

Transmission Line — Missouri — Empire Dist. Electric Co., will construct 25 mi., 3-phase, 33,000 volt 60 cycle transmission line in Newton and McDonald Counties, by day labor. F. C. Arthur, supt.

Amusement Park, etc.—Valley Park, Mo.—Lake Ozark Park Realty Co., R. F. D. 15, amusement park, incl. 75 x 130 ft. dancing pavilion, 120 x 180 ft. swimming pool, 100 small club houses, 90 x 90 ft. cafeteria, and 8 acre lake, etc., at Manchester and Barrett's Station Rds., to F. Heisler, c/o owner.

Wharf Shed — Galveston, Tex. — See "Buildings—Commercial."

Tunnel—San Francisco, Calif.—Bd. Pub. Wks. City and San Francisco Co., constructing tunnel and appurtenances under Buena Vista Park, to Youdall Constr. Co., Matson Bldg., $1,247,592. Noted Apr. 1.

Materials

Proposed Work

Gravel—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rejected bids May 4, 5,000 cu.yd. ¾ in. quartz gravel. Will readvertise. Noted Apr. 29.

Bids Desired

Patching Material—Boston, Mass.—May 25, by Supply Dept., 5,000 tons asphalt patching material. F. L. Brier, supt.

Castings—New York, N. Y.—May 24, by J. Miller, pres. Manhattan Boro, Boro Hall, iron castings.

Gas Pipe, etc.—Richmond, Va.—June 4, at office Pub. Utilities, City Hall, 1,000 lengths 4 in. gas pipe and fittings. G. H. Whitfield, dir.; adv. E. N.-R. May 20.

Gravel—Louisiana—June 11, by State Hy. Comn., Baton Rouge, approximately 6,600 cu.yd. gravel for Minden-Shreveport Highway, Federal Aid Project 75-A, Bossier Parish. W. B. Robert, Reymond Bldg., highway engr.

Cables—Milwaukee, Wis.—May 24, by Central Bd. Purchases, J. W. Nicholson, ch. buyer, 175,000 ft. steel-taped parkway and lead-covered cables.

Sand and Gravel—Minneapolis, Minn.—May 24, by F. S. Gram, city purch. agt., approximately 30,000 cu.yd. each of sand and gravel. N. W. Elsberg, city engr.

Contracts Awarded

Sewer Brick—Boston, Mass.—Bd. Pub. Wks., City Hall, 260,000 sewer bricks, to J. P. O'Connell Co., 11 Beacon St. at $25 per M. Noted Apr. 1.

Asphaltic Oil or Tar—Providence, R. I.—State, State House, 250,000 gal. asphaltic oil or tar, to M. Moulton Jr., Inc., 6 Beacon St., Boston, Mass., $19,975.

Ballast—Phila., Pa.—Dept. Supplies, E. J. Lafferty, dir., May 10, from J. Meehan & Son, 916 West Dakota St., 2,425 tons slag ballast at $2.58 per ton, 7,929 tons 1.5 x 2.5 ballast $2.73, 1,363 tons ¾ stone $2.90, and 1,475 tons ½ stone $2.95. Noted May 6.

Road Oil—Green Bay, Wis.—W. L. Kerr, city clk., 10,000 gal. road oil having 50% to 60% and 20,000 gal. having 60% to 70% asphaltic content, to Standard Oil Co., 414 Sycamore St., Milwaukee, $0.62 per gal. Noted Apr. 22.

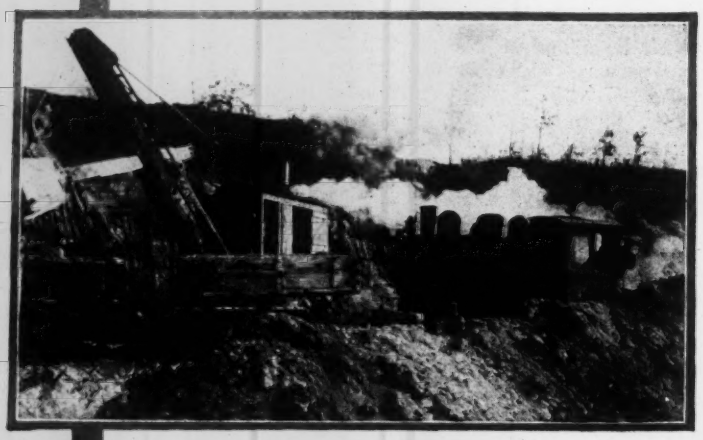
Sand and Gravel—Minneapolis, Minn.—F. S. Gram, city purch. agt., 3,500 cu.yd. washed concrete sand, and 7,000 cu.yd. gravel, to Hennepin Sand & Gravel Co., 439 P St., Minneapolis, at $1, and $2.10 per cu.yd. respectively. Noted Apr. 15.

Cement, etc.—Montreal, Que.—Corporation of Montreal, 360,000 bags cement, to Canada Cement Co., Ltd., at $2.11 per bag; and 325,000 gal. fuel oil, to Imperial Oil Co., Ltd., 1250 St. Valier St., $0.0693 per gal.

See proposal advertising on page 107, Advertising Section

PORTER LOCOMOTIVES

PORTER "better built" locomotives



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Established 1865
Pittsburgh, Penna.

It's gear driven!

No chains or sprockets ANYWHERE to get out of order. Big power, and a saving in maintenance and fuel alone which pays for its initial cost. In sizes up to 30 tons.

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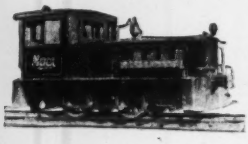

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Wilkes-Barre, Pa.

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GASOLINE LOCOMOTIVE

Bethlehem Industrial and Electric Railway Products

Tee and Girder Rails; Machine Fitted Joints; Splice Bars; Hard Center Frogs; Hard Center Mates; Rolled Alloy Steel Crossings; Abbott and Center Rib Base Plates; Rolled Steel Wheels and Forged Axles; Tie Rods; Bolts; Tie Plates; Pole Line Material; Mine Ties; Light Rails; Switches; Switch Stands; Grimm Rail Clamps and Industrial Track Specialties.

Catalog Sent on Request

BETHLEHEM STEEL COMPANY, Bethlehem, Pa.

BETHLEHEM

Positive gear drive. Four speeds in either direction. Sizes built, 3½ to 25 tons in weight.

Write for catalogue

SEVEN WORKS
RAMAPO-AJAX-ELLIOT
HILLBURN, NEW YORK
NIAGARA FALLS, N.Y.
CHICAGO, ILLINOIS
EAST ST. LOUIS, ILL.
PUEBLO, COLORADO
SUPERIOR, WISCONSIN
NIAGARA FALLS, ONT. CANADA

Ramapo Ajax Corporation

RAILWAY TRACK MATERIAL
Switch Stands, Frogs, Switches, Crossings, Guard Rails, Clamps, etc. for steam, mine and industrial railway tracks
MANGANESE WORK A SPECIALTY
SALES OFFICES AT ALL WORKS
Main Office HILLBURN, N.Y.

CARS-HAND, AUTOMATIC AND AIR DUMP CARS-TRACK ETC.
FOR ALL ENGINEERING AND INDUSTRIAL USES.
KOPPEL INDUSTRIAL CAR & EQUIPMENT CO.
KOPPEL — PENNA.
NEW YORK — CHICAGO
PITTSBURGH — SAN FRANCISCO

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Street improvement, Pittsburgh, Pa., voted bonds, $6,127,000.

Bridge, New Orleans, La., E. Watson takes bids about June 1 for bridge over Lake Pontchartrain, $5,000,000.

Water system, Pittsburgh, Pa. voted bonds for renovating water system, $3,900,000.

Floating dock, New Castle, New South Wales, government plans dock, $3,000,000.

Office, Houston, Tex., J. M. West, plans building, $3,000,000.

Administration building, Ossining, N. Y., State Bldg., Commissioner having plans prepared, $2,500,000.

Buildings and improvement, Pittsburgh, Pa. voted bonds for buildings and improvement, $2,500,000.

Apartment, Chicago, Ill., Lowenburg & Lowenberg, Archts. preparing plans and soon takes bids, $2,500,000.

High School, Rochester, N. Y., Bd. of Educ. plans building, $2,000,000.

Cement plant, Lackawanna, N. Y., Federal Portland Cement Co. takes bids in June, $2,000,000.

Improving sewerage system, Pittsburgh, Pa., voted bonds, $2,000,000.

Hotel, Pass Christian, Miss., M. Eisemen, et al, plan hotel, $1,500,000.

Theatre, Baltimore, Md., Stanley Co. of North America soon takes bids, $1,500,000.

Bridge, Pittsburgh, Pa., voted bonds for bridge, $1,450,000.

Hotel, San Diego, Calif., Syndicate having plans prepared, $1,250,000.

Apartment hotel, New York, N. Y., J. G. Siegel having plans prepared, $1,145,000.

Warehouse, Cleveland, O., Cleveland Stevedore Co. having plans prepared, $1,000,000.

Hotel, Terre Haute, Ind., Terre Haute Hotel Co. takes bids early in June, $1,000,000.

School, Elgin, Ill., Chicago Junior School, Inc. having preliminary plans prepared, $1,000,000.

Drainage system, Brownsville, Tex., Cameron Co. making plans, $1,000,000.

Bids Wanted

Road work, Nashville, Tennessee, June 11, State Dept. of Highways & Pub. Wks., grading, paving, bridges, etc. roads in 25 various counties. To exceed $2,000,000.

Contracts

Warehouse, compress and pier, Houston, Tex., Manchester Terminal Corp. will build by day labor, $5,000,000.

Hotel, Chicago, Ill., Rissman & Hirschfeld, Archts., to A. Brundage, $3,000,000.

Gas pipe line, Childress, Tex., Upham Gas Co. will build 356 mi. 12 in. gas pipe line by day labor, $3,000,000.

Classified Index of Bids Wanted

Waterworks

Bids close		*See Eng. News-Record*
May 28	New York	May 20
May 28	Massachusetts	May 27
June 1	Brooklyn, N. Y.	May 27
June 1	Midland, Mich.	May 27
June 1	Libertyville, Ill.	May 27
June 1	Osyka, Miss.	May 27
June 2	Wash., D. C.	May 27
	Adv. May 27.	
June 2	New York, N. Y.	May 6
June 2	Sanford, N. C.	May 20
June 7	Vermilion, O.	May 20
June 7	Healdsburg, Calif.	May 20
June 7	Placerville, Calif.	May 20
June 7	Rahway, N. J.	May 20
	Adv. May 20 and 27.	
June 7	Crosby, N. D.	May 20
June 7	Springville, Calif.	May 27
June 7	Crenshaw, Miss.	May 27
June 8	Illinois	May 27
June 10	Sonyea, N. Y.	May 27
	Adv. May 27.	

Sewers

May 28	Akron, N. Y.	May 13
May 28	Watkins, Kan.	May 20
May 31	Selma, Ala.	May 13
May 31	Selma, Ala.	May 27
June 1	Los Angeles, Calif.	May 20
June 1	Lakewood (Cleveland P. O.), O.	May 27
June 2	Westby, Wis.	May 27
June 2	Detroit, Mich.	May 20
	Adv. May 20 and 27.	
June 3	New York, N. Y.	May 27
June 7	Crosby, N. D.	May 20
June 8	St. Louis, Mo.	May 13
June 8	Lyndonville, N. Y.	May 20
June 10	Mamaroneck, N. Y.	May 27
	Adv. May 27.	
June 14	Ojai, Calif.	May 27

Waste Disposal

June 3	Mobile, Ala.	May 6
June 4	New Dorp (sta. Staten Island), N. Y.	May 27
June 8	Trenton, N. J.	May 27
	Adv. May 27.	
June 8	Gulfport, Fla.	May 27

Bridges

May 31	London, Ont.	May 27
June 1	Ontario	May 27
June 1	Massachusetts	May 20
June 1	Sebring, Fla.	May 6
June 1	Mercer, Pa.	May 13
	Adv. May 13 to 27.	
June 1	Jacksonville, Fla.	May 13
June 4	Pennsylvania	May 27
June 4	La Crosse, Wis.	May 27
June 4	Wyoming	May 27
June 7	California	May 27
June 8	Cohoes, N. Y.	May 27
	Adv. May 27.	
June 8	South Dakota	May 27
June 8	Massachusetts	May 27
June 9	Illinois	May 27
June 14	Huntington, W. Va.	May 27

Excavation, Drainage, Irrigation, Levees, River and Harbor

May 31	Bradentown, Fla.	May 13
June 1	Galveston, Tex.	Apr. 29
June 2	New York, N. Y.	May 20
	Adv. May 20 and 27.	
June 4	Albany, N. Y.	May 13
	Adv. May 13 to 27.	
June 8	Springfield, Ill.	May 20
June 15	Clewiston, Fla.	May 27
June 15	St. Louis, Mo.	May 13

Streets and Roads

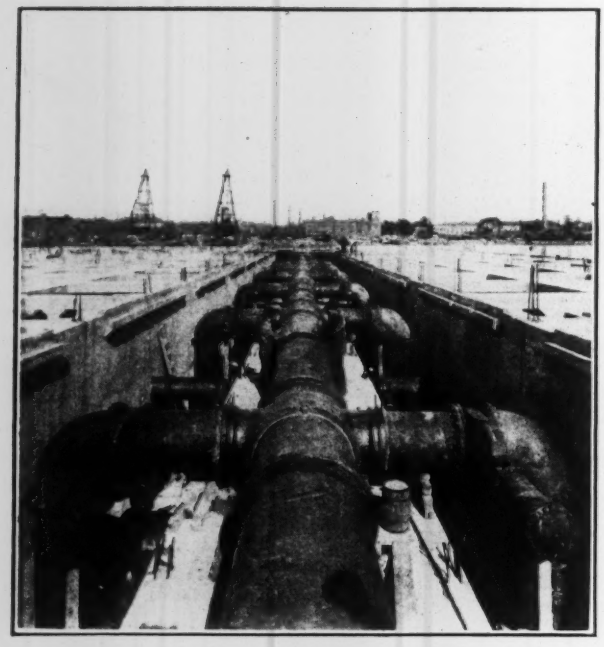
May 28	Freeport, N. Y.	May 13
May 28	Cincinnati, O.	May 20
May 28	Hamilton, O.	May 20
May 27	Long Island City, N. Y.	May 27
May 29	Cleveland, O.	May 27
May 31	Garnett, Kan.	May 13
May 31	Toledo, Ia.	May 27
May 31	Arkansas	May 27
May 31	Falls City, Neb.	May 27
June 1	Maxville, Ont.	May 27
June 1	Lakewood (Cleveland P. O.), O.	May 27
June 1	Trenton, N. J.	May 27
June 1	Gobels, Mich.	May 20
June 1	Birmingham, Ala.	Apr. 22
June 1	St. Louis, Mo.	May 13
June 1	Maryland	May 20
	Adv. May 20 and 27.	
June 1	West Virginia	May 20
June 1	Newton, N. J.	May 20
	Adv. May 20 and 27.	
June 1	Massachusetts	May 20
June 1	Anna, Ill.	May 27
June 1	De Pue, Ill.	May 27
June 1	Summit, N. J.	May 27
June 1	St. George, N. Y.	May 27
June 2	Cleveland, O.	May 27
June 2	Baltimore, Md.	May 27
June 2	Omaha, Neb.	May 20
June 2	Greensburg, Pa.	May 20
June 3	Pennsylvania	May 20
	Adv. May 20 and 27.	
June 3	Terre Haute, Ind.	May 27
June 3	New York, N. Y.	May 27
June 3	Marysville, Kan.	May 27
June 3	Wisconsin	May 27
June 3	Fond du Lac, Wis.	May 27
June 4	Adel, Ga.	May 27
June 4	Wisconsin	May 27
June 4	Wyoming	May 27
June 4	Akron, O.	May 27
June 4	Cincinnati, O.	May 27
June 4	White Plains, N. Y.	May 27
	Adv. May 20 and 27.	
June 4	Columbus, Kan.	May 13
June 5	Groveton, Tex.	May 27
June 5	Idaho	May 27
June 7	Oroville, Calif.	May 27
June 7	Monroe, Mich.	May 27
June 7	Akron, O.	May 13
June 7	Salina, Kan.	May 13
June 7	San Jose, Calif.	May 20
June 7	Martinez, Calif.	May 20
June 7	California	May 27
June 7	La Porte, Ind.	May 27
June 7	Chicago, Ill.	May 27
June 7	Tunica, Miss.	May 27
June 7	Curwensville, Pa.	May 27
June 8	Crown Point, Ind.	May 27
June 8	Maryland	May 27
June 8	Wabash, Ind.	May 13
June 8	St. Louis, Mo.	May 13
June 8	Eldorado, Kan.	May 13
June 8	St. Louis, Mo.	May 20
June 8	Lakewood, N. J.	May 20
	Adv. May 20 and 27.	
June 8	Warsaw, Ind.	May 20
June 8	Dover, N. J.	May 20
	Adv. May 20 and 27.	
June 8	Virginia	May 27
	Adv. May 27.	
June 9	Illinois	May 27
June 9	Delaware	May 20
June 9	Harrison, Mich.	May 20
June 9	Freehold, N. J.	May 27
	Adv. May 27.	
June 10	Coldwater, Kan.	May 27
June 10	Muskogee, Okla.	May 27
June 11	Seymour, Tex.	May 27
June 11	Tennessee	May 27
	Adv. May 27.	
June 11	Coldwater, Kan.	May 13
June 11	Fellsmere, Fla.	May 13
June 11	Olathe, Kan.	May 13
June 12	Lake Charles, La.	May 20
June 14	Moundsville, W. Va.	May 27
June 15	Woodville, Miss.	May 27
June 15	Hillsboro, Tex.	May 27
June 15	Gonzales, Tex.	May 27
June 15	Marlin, Tex.	May 27
June 15	Duluth, Minn.	May 20
June 15	Louisiana	May 20
June 15	Anderson, Ind.	May 13
June 16	Wildwood, N. J.	May 27
	Adv. May 27.	
June 17	Cross Roads (Felton P. O.), Pa.	May 27
	Adv. May 27.	
June 17	Felton, Pa.	May 27
	Adv. May 27.	
June 22	Duluth, Minn.	May 20

See proposal advertising on page 168, Advertising Section

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Used by
City of Buffalo, N. Y. For Over 20 Years



Pipe gallery Buffalo's new filter plant; joints made with Leadite.

Buffalo is proud of its water works system.

It is proud of its new modern filter plant just completed and representing an investment of millions of dollars.

That is why the City of Buffalo wanted the Convention of the American Water Works Association to meet there this year, June 7th to 11th.

They wanted other water works men thruout the country to see what they have accomplished.

Buffalo has laid about 40 miles of c.i. bell and spigot water mains with Leadite.

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LEADITE saves at least 75%.

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Visit Our Booth at the American Water Works Convention

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Buildings—Commercial

Bids close — *See Eng. News-Record*

May 31 Woonsocket, R. I. .....May 27
June 2 Shreveport, La. .....May 27
June 2 Juniata (br. Altoona), Pa. .....May 6
June 8 Duluth, Minn. .....May 6
June 11 Toms River, N. J. .....May 27
Adv. May 27.
June 14 New York, N. Y. .....Apr. 29
June 14 San Luis Obispo, Calif. .....May 27
June 15 Cleveland, O. .....May 27
July 1 Texarkana, Tex. .....Apr. 22
Sept. 1 Vancouver, B. C. .....Apr. 22

Buildings—Industrial

June 1 Lewistown, Pa. .....May 27

Buildings—Educational, Religious

May 31 Woonsocket, R. I. .....May 20
May 31 Little Rock, Ark. .....May 13
May 31 Vancouver, B. C. .....May 27
June 1 Mercedes, Tex. .....May 20
June 1 Superior, Wis. .....May 20
June 1 Phila., Pa. .....May 27
June 1 Durham, N. H. .....May 27
June 2 Wash., D. C. .....May 20
June 2 Jersey City, N. J. .....May 27
June 3 Alton, Ill. .....May 27
June 3 Perth Amboy, N. J. .....May 20
June 4 Akron, O. .....May 13
June 8 Brooklyn, N. Y. .....May 27
June 10 Medford (br. Boston), Mass. .....May 27
June 12 Urbana, Ill. .....May 27

Federal Government Work

May 29 Dwellings — Nashville, Tenn. .....May 13
June 1 Steel Barges—Memphis, Tenn. .....May 6
Adv. May 6 to 27.
June 1 Pier—Charleston, S. C. .....May 6
Adv. May 6 to 27.
June 1 Mezzanine—Boston, Mass. .May 20
June 1 Conduits, etc.—Phila., Pa. .May 27
June 1 Road—South Dakota .....May 27
June 1 Road—Colorado .....May 27
June 2 Road—Colorado .....May 27
June 2 Road—New Mexico .....May 27

Bids close — *See Eng. News-Record*

June 2 Road—California .....May 27
June 3 Remodeling — Nashua, N. H. .....May 20
June 7 Operating Machinery—Louisville, Ky. .....May 13
Adv. May 13 to 27.
June 7 Breakwater—Presque Isle, Mich. .....May 20
June 8 Hospital, etc.—North Chicago, Ill. .....May 6
June 8 Mess Hall, etc.—Devils Lake, N. D. .....May 27
June 9 Compass Station — Empire, Ore. .....May 13
June 9 Gates—Pittsburgh, Pa. ...May 13
Adv. May 13 to 27.
June 9 Boilers — Terre Haute, Ind. .....May 13
June 9 Chimney — Mare Island, Calif. .....May 20
June 9 Dredging—Quantico, Va. ..May 27
June 10 Dredging—San Diego, Calif. .....May 27
June 10 Laboratory—Fort Benning, Ga. .....May 20
Adv. May 20 and 27.
June 10 Tower—New York, N. Y. .May 20
Adv. May 20 and 27.
June 10 Power Plant, etc.—Hot Springs, Ark. .....May 20
June 11 Dredging—Green Bay, Wis. May 20
Adv. May 20 and 27.
June 11 Remodeling—Plattsburg, N. Y. .....May 27
June 11 Administration, etc.—Dayton, O. .....May 27
Adv. May 27.
June 12 Docking Caissons—Huntington, W. Va. .....May 20
June 14 Hangar—Wash., D. C. .....May 20
June 14 Hulls, etc.—Louisville, Ky. .....May 20
Adv. May 20 and 27.
June 15 Barn, etc. — St. Cloud, Minn. .....May 20
Adv. May 20 and 27.
June 16 Houses—Pittsburgh, Pa. ..May 20
Adv. May 20 and 27.
June 17 Boilers, etc.—Winona, Minn. .....May 27
Adv. May 27.
June 18 Houses—Pittsburgh, Pa. ..May 27
Adv. May 27.

Bids close — *See Eng. News-Record*

June 21 Hospital, etc.—Palo Alto, Calif. .....May 6
Adv. May 20 and 27.
June 21 Water System — Ft. Warren, Mass. .....May 27
June 21 Dam—Pittsburgh, Pa. ....May 27
Adv. May 27.
June 22 Dredging—Chicago, Ill. ....May 27
Adv. May 27.
June 28 Kitchen, etc.—Livermore, Calif. .....May 27
July 7 Motors, etc.—Wash., D. C. .May 13
July 15 Dredging — Hawaii .....May 13
Adv. May 13 to 27.

Unclassified

May 28 Waterproofing Standpipe, etc. —Walpole, Mass. .....Apr. 29
May 28 Tracking, etc.—New York, N. Y. .....May 20
May 28 Fill—Corona (Ind. sta. Flushing), N. Y. .....May 20
May 29 Airplane Hangar—Lansing, Ill. .....May 27
May 31 Wharf—Mobile, Ala. .....Apr. 29
June 1 Wharf Sheds—Lake Charles, La. .....May 20
June 3 Heating and Sanitary Work—Raybrook, N. Y. .....May 13
June 7 Heating and Ventilating—Detroit, Mich. .....May 20
June 7 Station Finish Work—New York, N. Y. .....May 27
June 9 Culvert, etc.—New Rochelle, N. Y. .....May 20
Adv. May 20 and 27.
June 16 Subway—Phila., Pa. .....May 27
June 16 Sanitary Work, etc.—Utica, N. Y. .....May 27
Adv. May 27.
Sept. 30 Crane Gantries, etc.—Otahulu, New Zealand .....May 20

Materials

June 1 Cement—Chicago, Ill. .....May 27
June 2 Rails—Melbourne, Australia .....May 27
June 4 Cement, etc.—St. George, N. Y. .....May 27
June 4 Gas Pipe, etc.—Richmond, Va. .....May 20
June 11 Gravel—Louisiana .....May 20

News of New Work

Waterworks

Proposed Work

Mass., Chicopee — Appropriated $200,000 for dam at Cooley Brook Reservoir, and $25,000 for piping.

Mass., West Roxbury (Boston P. O.)—Dept. Pub. Wks., Boston, plans surface water conduit in Brookstone St., here. $148,000. J. H. Sullivan, comr.

Pa., Pittsburgh—Voted $3,900,000 bonds, renovating water system.

N. C., Durham — City plans to issue $500,000 bonds, waterworks and dam at Flat River and extending mains into new area of city. R. W. Rigsbee, Durham, city mgr.

N. C., Liberty — Takes bids about July 20, water and sewerage systems. Spoon, Lewis & Camp, 407-8-9 Amer. Bank Bldg., Greensboro, consult. engrs.

Ala., Hartsville—Election May 30, $65,000 bonds, waterworks and sewers in various streets.

Miss., Gulfport—Soon takes bids 1 m.g. rein.-con. reservoir. H. D. Shaw, Gulfport, engr. Noted Jan. 28.

Mich., Detroit—Bd. Water Comrs. plans 415 ft. 6 in. c.i. mains in Graydon Ave., 1,250 ft. Eagling Ave., 1,600 ft. Troester Ave., 1,350 ft. Glen Ave., 1,350 ft. Tecumseh Ave., 1,380 ft. Hazelridge Ave. and 1,080 ft. Young Ave.; 1,350 ft. 8 in. in Highplanes Ave. 1,250 ft. Roberts Ave. 1,285 ft. Seymour Ave. 1,350 ft. Belmont Ave. 1,430 ft. Cedar Grove Ave. 2,260 ft. Myland Ave. and 660 ft. Six Mile Rd. 1,375 ft. 16 in. in West Chicago Blvd. and 725 ft. Evergreen Ave. G. H. Fenkell, 176 East Jefferson Ave., genl. mgr.

Mich., Detroit — Dept. Water Supply, plans 3,315 ft. 8 in. mains in Asbury Park Ave., 565 ft. Gainsboro Ave., 2,660 ft. St. Marys Ave., 1790 ft. Laing Ave., 2,660 ft. Rutherford Ave. and 1,200 ft. in Eastburn Ave.; 6 in. in 2,600 ft. Cherrylawn Ave., 2,660 ft. Mettetal Ave., 2660 ft. Mansfield Ave. and 1,140 ft. in Burgard Dr. G. H. Fenkell, genl. mgr., 176 East Jefferson Ave., engr.

Ill., Dupo — Plans waterworks and distribution system, incl. motor driven pumping equipment, etc. $125,000. Schwab & Sheppard, Alton, engrs.

Wis., Gillett—P. Nygaard, village clk., making plans waterworks. $45,000 bonds voted. McMahon & Clark, Menasha, engrs. Noted Dec. 31.

Wis., Wausau—Plans to issue $125,000 bonds, constructing filtration-aeration plant for waterwork. W. G. Kirchoffer, 22 North Carroll St., Madison, engr. Noted Mar. 25.

Ia., Ames—Plans filtration plant. $28,000. P. H. Hopkins, city engr.

Minn., Dilworth—Election June 21, $20,000 bonds, waterworks. $35,000. Luckey-Miller Co., Fargo, N. D., engrs.

Kan., Topeka — Making surveys and plans water supply in Highland Park and Oakland addition. To exceed $15,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Ark., Foreman — Dist. 1 plans waterworks. $45,000. C. W. Williams, mayor. Engineer not selected. Noted Jan. 29.

Okla., Avord—Making preliminary plans new waterworks. $20,000. T. D. Owens, mayor. Engineer not selected.

Okla., Hydro—Made preliminary plans extending mains, etc., in various streets. $17,000. H. M. Marshall, mayor. Engineer not selected.

Colo., Longmont—Plans concrete storage reservoir 100 ft. high, on North St. Vrain Creek. Water will serve to augment the city's water supply and then provide water for turbines when regular source is low. $150,000.

Wash., Everett—Defeated $260,000 bonds. Flowing Lake Water Project. Noted Mar. 25.

Calif., Livingston—See "Sewers."

Calif., San Jose—East Side Water Dist. plans election $200,000 bonds, 3 reservoirs to feed from deep wells to be lifted from main in Alum Rock Ave. by series booster stations.

Calif., Los Angeles — Los Angeles Co. made plans 2.92 mi. c.i. mains in Hammerton Tract. $25,350.

Calif., Santa Cruz — Plans to purchase 5,000 ft. each 4 in. and 6 in. Class B c.i. pipe, bell spigot joints, tees and crosses. J. K. James, city engr.

B. C., Penticton—Plans election $60,000 bonds, additions and improvements to waterworks.

Bids Desired

Massachusetts — May 28, by Dept. Pub. Health, State House, Boston, pumping station near shores of Clear Pond, power transmission lines for Lakeville State Sanatorium, etc., at Lakeville. To exceed $25,000. G. M. Bigelow, comr.

N. Y., Brooklyn—June 1, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, steel and c.i. mains in Ocean Parkway, Church and Gravesend Aves., etc., here.

N. Y., Sonyea—June 10, by Superintendent Purchase, Capitol, Albany, replacing and extending watermains, etc. at Craig Colony, here; adv. E. N.-R. May 27.

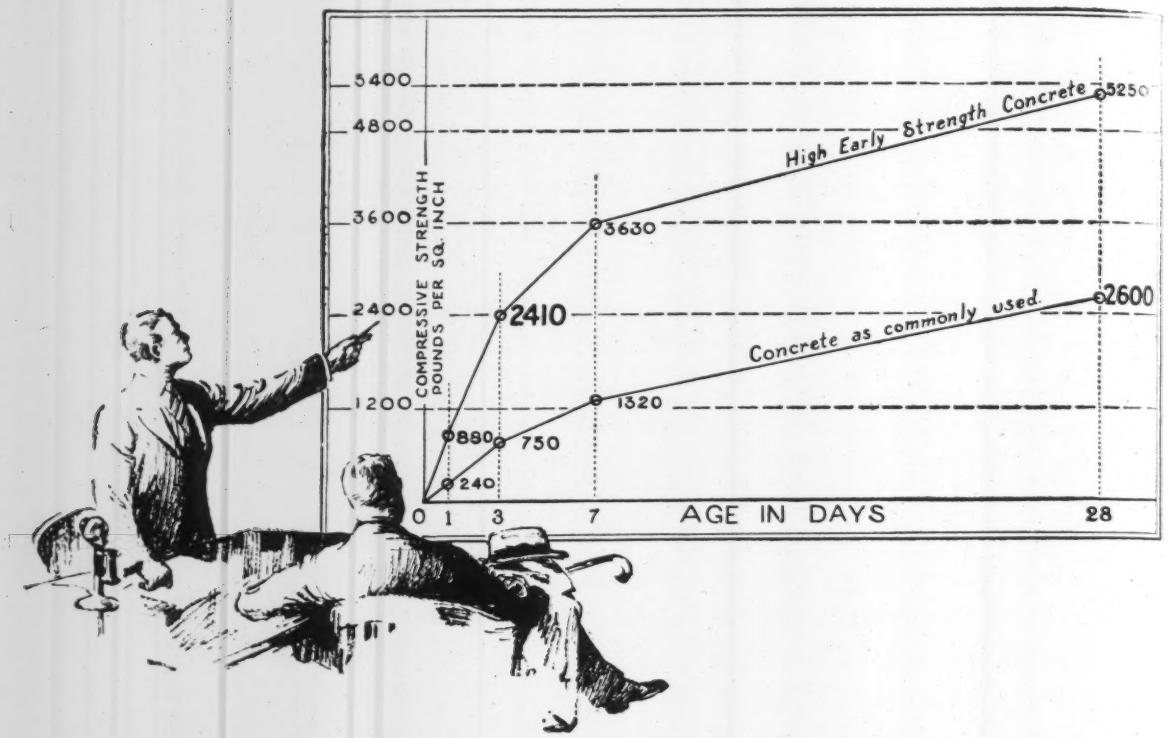
D. C., Wash. — June 2, by Washington Surburban Sanitary Dist., Evans Bldg., New York Ave., 43,000 ft. 6- to 12-in. c.i. pipe Contr. 61-W. R. B. Morse, Hyattsville, Md., ch. engr. of Dist.; adv. E. N.-R. May 27.

Miss., Crenshaw — June 7, by B. S. Woolard, mayor, and Bd. Aldermen, new waterworks.

Miss., Osyka—June 1, by A. J. Williams, mayor and Town Council, 4 and 6 in. artesian well.

Mich., Midland—June 1, by A. E. Coons, city clk., high lift pumping plant with 2 m.g.d. rein.-con. filtration and softening plant, also clear water reservoir with 0.6

See classified index on bids wanted on page 327



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Concrete for Permanence

Waterworks (Continued)

mg. capacity, etc. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Illinois—June 8, at office Dept. Purchases & Constr. Div. Waterways, State House, Springfield, L. Small, dir., fabricating, furnishing and erecting miter lock gates, anchorages and culvert valves of Illinois Waterways at Lockport and Marseilles locks, 2,546,000 lb. structural steel, 126,000 lb. steel castings, 46,000 lb. steel forgings, 59,000 lb. other metal work. M. B. Barnes, ch. engr.

Ill., Libertyville — June 1, by Village Clerk, 13,190 sq.yd. 6- to 14-in. c.i. pipe, 30 hydrants, 15 gate valves, etc. $32,000. Kelker DeLeuw & Co., 111 West Washington St., Chicago, engrs. Noted May 20.

Calif., Springville—June 7, by Directors Springville Public Utility Dist., extending water system, 1,068 ft. Matheson joint pipe, double dipped, 2,310 lin.ft. Matheson joint pipe, 1,000 ft. 2 in. standard wrought steel black pipe, etc.

Bids Received

N. J., Jamesburg — Bd. Institutions & Agencies, W. J. Ellis, comr., Trenton, May 10, waterworks improvements at State Home for Boys, here, 250,000 gal. tank, from Pittsburgh-Des Moines Steel Co., 50 Church St., New York City, $19,900; 200,000 gal. tank, from Chicago Bridge & Iron Co., 30 Church St., New York City, $17,770; and pump, from Crain Pump & Lumber Co., 623 Arch St., Phila., Pa., $10,012. Noted May 6.

Contracts Awarded

N. Y., Brooklyn — N. J. Hayes, comr. Supply, Gas & Electricity, Municipal Bldg., New York City, mains, etc. in Flatbush, Livonia, Rockaway, Scott, Troy Aves., etc., to N. D. Stefano, 378 Woodstock Ave., St. George, $7,250. Noted May 6.

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Ditmars and 60th Aves., Edison, Indiana, Olmstead and Tesla Pls., etc., here, to Wataga Contg. Co., 308 Lenox Ave., New York City, $7,110. Noted May 20.

N. J., Cedar Grove—Twp. Com., Pompton Ave., water distribution system, to Romano & Saggese, Main St., Montclair, (unofficial) $107,000; stand pipe, to Chicago Bridge & Iron Wks., 30 Church St., New York City, $3,400; pumping station building, to F. Pollara, 20 Farrington St., Caldwell, $4,575; and pumping station equipment, to Watson-Flagg Eng. Co., 120 Liberty St., New York City, $10,437. Grand total $125,412. Noted May 6.

N. J., Livingston—Twp. Com., Livingston Ave., 11,500 lin.ft. c.i. mains, etc. in Livingston Ave., to W. G. Fritz, 258 Valley Rd., West Orange, $45,641.

Pa., Phila.—Comrs. Fairmont Park, 127 City Hall, air lift pumping equipment at aquarium, East Fairmont Park, to Roberts Filter Mfg. Co., Darby, $4,480. Noted May 13.

Md., Baltimore—Bd. Awards, mains and excavating trenches in York Rd., for Bureau Water Supply, to M. and J. B. McHugh, 3414 Springdale Ave., $23,767. Noted May 20.

N. C., Liberty—Town, drilling wells, to Virginia Mchy. & Well Co., 1319 Main St., Richmond, Va. Noted Apr. 29.

Tenn., Rutherford — Waterworks, incl. steel tank, tower, rein.-con. reservoir, mains, hydrants, etc., to Pittsburg-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., approximately. $32,300. Noted Jan. 14.

O., Cleveland—Cuyahoga Co., 9,700 ft. 8- to 12-in. c.i. mains in Impvt. 451, Brecksville Rd., to A. Marra Co., Engineers Bldg., $51,101. Noted May 20.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., 12,033 ft. 6- to 16-in. mains in various streets, to Mierswa Constr. Co., 1619 Oregon St., Oshkosh, $14,019. Noted May 6.

Neb., Nelson—J. J. Pfeiffer, city clk., to McWayne Pipe Co., Chicago, Ill., c.i. pipe, Sect. 1 at $2,104; to Paxton & Vierling Iron Wks., 17th St. and Union Pacific R.R. tracks, Omaha, c.i. specials, Sect. 1, $170; to Interstate Mchy. & Supply Co., 1006 Douglas St., Omaha, Sects. 2, 3 and 4, $4,306, Sect. 5 $1,900, Sect. 6 $650, Sect. 9 $585 and Sect. 18 $1,500; to E. W. Bachrach & Co., 207 Rialto Bldg., Kansas City, Mo., Sect. 7 $406; to Hastey & Sheeley, Falls City, Sect. 8 $395, Sect. 10 $5,270, Sect. 11 $1,231, Sect. 12 $3,375, Sect. 13 $3,639, Sect. 14 $2,982, Sect. 15 $1,666, Sect. 16 $778 and Sect. 17 $1,507; and to South Nebraska Power Co., Sect. 19 $516. Grand total $32,980.

Ark., Fayetteville—Steel and stone pumping station, to J. A. Fraser, Fayetteville, $6,785; and equipment, incl. 1,200 gal. duplex pump, etc., to Fairbanks-Morse Mchy Co., 900 South Wabash Ave., Chicago, Ill., approximately $40,000. Noted Feb. 11.

Calif., Pasadena — To Amer. C. I. Pipe Co., Rives-Strong Bldgs., Los Angeles, Mono-Cast centrifugal c.i. pipe, 40,000 ft. 6 in. "B" at $0.7465 per ft., and 10,000 ft. 8 in. $1.0675; to U. S. C. I. Pipe Co., Monadnock Bldg., San Francisco, 4,000 16 in. $3.15; to Natl. C. I. Pipe Co., Hellman Bank Bldg., Los Angeles, 10,000 ft. 4 in. $0.5486, 8,000 12 in. $2.0755, also 3,600 ft. "C" pipe $0.589, and 7,200 ft. 6 in. $0.905.

Sewers

Proposed Work

N. J., Trenton—City Comn. plans various sized drains in Riverside Dr., Stuyvesant and Glenwood Aves., etc. $25,500. A. V. Gregory, City Hall, engr.

Pa., Pittsburgh—Voted $2,000,000 bonds, improving sewerage system.

Ala., Hartsville—See "Waterworks."

La., Bunkie — Voted $160,000 bonds, sewerage system, in Dist. 1. H. A. Mentz, Hammond, engr. Noted Apr. 29.

Tenn., Dresden—Made preliminary plans 7 mi. sanitary sewerage system. $60,000. W. R. McWherter, mayor. Engineer not selected.

O., Akron—W. F. Peters, dir. Pub. Serv. soon takes bids 7,335 ft. 8- to 42-in. vitr. clay trunk and lateral sewers in North Portage Path et al., $91,600; also 10,960 ft. 8- to 30-in. vitr. clay sewers, etc. in Brittain Rd., et al., $46,400. J. E. Root, Municipal Bldg., engr.

Ill., Mounds — Making preliminary plans extending vitr. clay sewers to outlying subdivisions. $25,000. G. F. Dewey, 613 Ohio Ave., Cairo, engr.

Wis., Gillett—P. Nygaard, clk., making plans sewerage system. $30,000 bonds voted. McMahon & Clark, Menasha, engrs.

Wis., Lake Geneva—Made plans and soon takes bids extending 2,730 ft. 10 in. intercepting and 5,115 ft. 8 in. lateral sewers, etc., in various streets Dist. 1. To exceed $25,000. J. G. Skeels, City Hall, engr.

Wis., Waupun—R. Zimmerman, city clk., making plans sewerage system. $25,000. W. G. Kirchoffer, Dean Bldg., Madison, engr.

S. D., Sioux Falls — Making plans approximately 6 mi. sewers in south section near Missouri River. $100,000. R. E. Bragstad, city engr.

N. D., Jamestown—Making plans sewage disposal plant. $25,000. W. O. DuPuy, city aud.

Tex., Panhandle—Election June 1, $100,000 bonds, sewerage system. Devlin Eng. Co., Central Bldg., Amarillo, engrs.

Tex., Wolfe City—Plans complete sewerage system. $40,000. Address Mayor.

Wash., Anacortes — City Council soon takes bids (1st unit) sewers in 70 blocks various streets in business district. $51,000. W. B. Short, Anacortes, engr.

Calif., Alhambra—Making plans sewers in various streets in annexed Midwick Addition. To exceed $25,000. H. E. Blake, city engr.

Calif., Livingston—Making plans improving sewer and waterworks, here. To exceed $50,000. A. E. Cowell, Merced, engr.

Calif., Los Angeles — Los Angeles Co. made plans approximately 12 mi. sewers in Co. Impvt. 140 (in West Hollywood Dist.). $150,000 or more. A. K. Warren, Law Bldg., co. drainage engr.

Calif., Oakland—Making plans 670 ft. 33 in. and 380 ft. 27 in. concrete sewer with timber foundation, and 350 ft. 18 in. and 197 ft. 16 in. vitr. pipe sewer with timber foundation and concrete saddle, etc., along Central Pacific R.R. right-of-way between 14th and 18th Aves. W. W. Harmon, city engr.

Ont., Toronto—East York Twp. plans 680 ft. 12 in. vitr. tile sewers in McMichael Ave., $6,275; 535 ft. in Chisholm Ave., $6,430; and 1,200 ft. in Cosburn Ave., $14,388. G. R. Jack, 443 Sammon Ave., engr.

Ont., Toronto—York Twp. plans 3,240 ft. vitr. tile sewers in Methuen and Harshaw Aves., also Easement and lane from Humberview Pumping Station to Raymond Ave. $31,409. F. B. Goedike, 40 Jarvis St., engr.

Bids Desired

N. Y., Mamaroneck — June 10, by Bd. Village Trustees, Boston Post Rd., constructing Contrs. 1 and 2, sewerage system. R. H. Stevens, Hillside Arcade, Larchmont, sanitary engr.; adv. E. N.-R. May 27.

N. Y., New York—June 3, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers, etc., in West 235th and 234th Sts.; in Bussing, Bronxwood, Rhinelander, Hobart, Riverdale, Oxford, and in Cambridge Aves. with temporary connection at Spuyten Duyvil Ave.

Ala., Selma—May 31, by City Comn., 18,150 ft. 10- to 15-in. sewers in various streets. Robert & Co., Bona Allen Bldg., Atlanta, Ga., engrs.

O., Lakewood (Cleveland P. O.)—June 1, by City, intercepting sewer in Edgewater Dr. To exceed $25,000. E. A. Fisher, City Hall, engr.

Wis., Westby—June 2, by C. Villand, city clk., constructing sewage disposal plant, vitr. sewers also 6 and 8 in. water mains in various streets. W. G. Kirchoffer, Dean Bldg., Madison, engr. Noted May 6.

Calif., Ojai—June 14, by L. D. Conklin, city clk., vitr., c.i. and wrought iron sewers in various streets, and sewage disposal plant. $100,000. H. B. Waud, 428 Oak St., Ventura, and D. S. Miller, 315 Marine Bank Bldg., Long Beach, engrs.

B. C., Vancouver — See "Contracts Awarded."

Bids Received

Md., Baltimore—Bd. Awards, 17,740 ft. 6- to 16-in. vitr. sewer known as Maidens Choice Trunk Run sewer, Sect. 2, Dist. G-2, Sanitary Contr. 227, from Adams & Marine Co., Old Town Natl. Bank Bldg., $70,935. Noted May 20.

O., Portsmouth—J. Lynn, serv. dir., May 11, sewer in Upper Mill St., from J. A. Grimes, Portsmouth, concrete $62,615 and brick $63,963.

Mich., Detroit—Dept. Pub. Wks., 12,187 ft. vitr. and brick sewers in Lateral 4579, and 13,548 ft. in Lateral 4581, from Ocascro Constr. Co., 1548 Penobscot Bldg., $32,256 and $39,278 respectively; 13,463 ft. in Lateral 4580, from Contg. & Eng. Co., 2206 Dime Bank Bldg., $39,615.

Tex., Galveston—C. A. Holt, Jr., engr., Galveston, rein.-con. storm drain in 24th St. from Ave. J. to Ship Channel, from H. J. Hetkes, 3113 R½ St., Galveston, for City. Approximately $29,600. Noted Apr. 22.

Calif., Glendale—For 30,632 lin.ft. 8 in. vitr. sewer in Palmer Ave., etc., from J. C. Hickey, 320 South Palm Ave., Alhambra, $87,667. Noted May 6.

Contracts Awarded

Me., South Portland (br. Portland) — W. E. Brown, secy. South Portland Sewerage Dist., constructing Sect. 2, trunk line sewer, Contr. B, to Forgione & Romano, Walnut St., $99,554. Noted May 13.

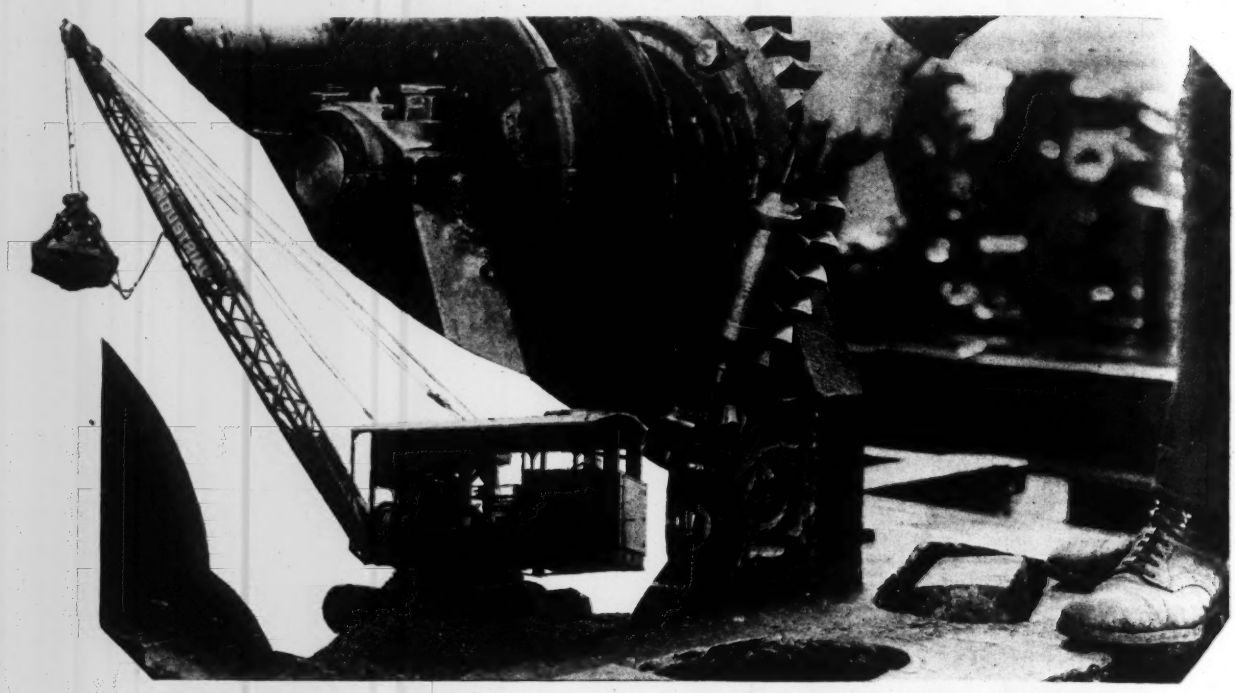
R. I., Providence — Sewers in Sisson, Maplehurst, Cornwall and Fairview Sts., to F. W. Christy, 945 Park Ave., $23,772; in Chad Brown St., to A. Atielle, 107 Westminster St., $1,189; in Devonshire St., to D. Mondillo, $557 Admiral St., $13,678; and in Grosvenor Ave., to A. Gonnelli, 454 Admiral St., $3,399. Grand total $42,038.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, to R. Ivino, 678 Glenmore Ave., sewer in Junius St. $552, Elmore Pl. $294, Varick St. $309, and 9th St. $246; to Manmill Constr. Co., 2035 Douglas St., in Avenue M $268, New Lots Ave. $229 and Colonial Rd. $277; to S. Guerriero, Avenue L $3,244; and to A. W. Matarazzo, 1163 61st St., Avenue L $1,746. Grand total $7,165. Noted May 20.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, to J. Jennings, Belle Harbor, sewer in Van Sicklen St., $19,732; to Tomassetti & Co., 1133 60th St., in Ft. Hamilton Parkway $15,370, and in East 26th St. $41,903; to Manmill Constr. Co., 2035 Douglass St. in East 45th St., $24,279; to A. W. Matarazzo, 1162 61st St., in Ocean Ave. $53,806, 62nd St. $29,819, and Schenectady Ave. $22,223, to R. Nazzarro, 1150 62nd St., in East 18th St. $59,278; to S. Guerriero, in West 10th St. $25,423, and 53rd St. $24,539. Grand total $316,372. Noted May 6.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, main sewers in Green Lane, to Mazzola & Marano, 739 South 7th St., $39,935; Packer Ave., to J. and R. Lombardi, Lincoln Bldg., $247,418; also Crawford and Langdon Sts., to A. Jaffalo & L. Mark, 139 South 50th St., $102,596 and $134,387 respectively. Grand total $524,336. Noted May 20.

D. C., Wash.—District Comrs., District Bldg., to A. McCandlish Co., Wash., D. C., Van Buren Street Service Sewer $2,040, Ralph Pl. Sewer $4,674, and 31st Pl. Sewer $3,200; to M. Cain Co., 13 6th St. N. E., service sewer in Decatur St. $1,874, Minnesota Ave. $9,951, 17th St. $9,197, 39th St. storm sewer $8,895, Wesley Heights trunk sewer $4,585, and Howard Rd. Service Sewer $1,728; to G. B. Mullin Co., 1296 Upshur St., storm sewer in Porter St. $31,798, and James Creek trunk sewer $35,700; to J. A. Forbes, for T St. replacement sewer $2,177, and F St. replacement sewer $6,777; to W. H. Angle, Hagerstown, Md., Owen Pl. Service Sewer $2,511, and East Brighton Sewer



LUBRICATION—*a tremendous trifle!*

TO make the task of lubrication easy, quick, positive and clean, the INDUSTRIAL WORKS has installed the Alemite-Zerk high pressure lubricating system on their crawling tractor crane, shovel and dragline. This system has solved the problem of neglected and insufficiently lubricated bearings.

It is based upon scientific facts that in order to force lubricant to all parts of a bearing properly, a high pressure is necessary. The INDUSTRIAL Alemite-Zerk system consists of compressors with which it is possible to develop pressure from 500 to 5000 pounds to the square inch with ease.

The fittings are made of steel, thoroughly rust-proofed, and especially hardened to prevent injury if accidentally struck by tools at times of repair. These small ball-check valve fittings take the place of the conventional grease or oil cups.

Because this is a system that lubricates thoroughly, positively and quickly, it provides smooth operation and lessened wear. This in turn brings about increased production, savings in wear and repairs and reduction of breakdowns—another reason why INDUSTRIALS excel.

Other products: Locomotive cranes 5 to 200 tons capacity, freight cranes, pile drivers, clamshell buckets.

INDUSTRIAL WORKS · BAY CITY · MICHIGAN

Sewers (Continued)

$8,039; to W. F. Brenizer Co., 101 New York Ave., Burleith Service Sewer $4,475; and to W. A. Pate, Jr., Rockville, Md., 16th St. Service Sewer $13,869. Grand total $151,490. Noted Apr. 22.

Fla., St. Petersburg — Storm sewers in 16th St. N., 12th St. S., 20th St. S., and connecting streets, to Gedney Constr. Co., St. Petersburg, $494,000; also in Crescent Lake Area, to J. P. Jones, St. Petersburg, $52,000.

Miss., Ocean Springs — See "Streets and Roads."

Mich., Muskegon — H. L. Brown, 711 Union Bank Bldg., 11,700 ft. 6- to 10-in. sewers in Glenside Subdivisions 1 and 2, for Muskegon Utilities Co., to C. Hansen, 1525 Beidler St., 8 and 10 in., $12,976; and to City, City Hall, 6 in., $8,370. Noted May 6.

Calif., Arroya Grande — City Trustees, 20,000 lin.ft. 4 and 8 in. vitr. sewers in various streets, to Oakland Sewer Constr. Co., Oakland, $36,828. Noted Apr. 22.

Calif., Los Angeles—Bd. Pub. Wks., main sewer in Venice Blvd. between Cattaraugus and Hutchinson Aves., to Radich & Tomich, 1253½ Sunset Blvd., $40,000; in Central Ave. between Santa Monica and Pico Blvds., to M. Miller, 208 West 2nd St., $36,119, in Oak Glen Dr., etc., to Olivarri Constr. Co., 107 South Main St., Santa Ana, $26,673. Grand total $102,792. Noted Mar. 25.

Calif., Mill Valley — Town Trustees, sewers in Blithdale, Buena Vista Ave., etc., to J. Currie, 1100 Peninsula Ave., Burlingame, $29,381. Noted Apr. 22.

B. C., Haney—Sewers in various streets, to Dawson Wade & Co. Ltd., Bekins Bldg., Vancouver, $32,200. Engrs. est. $32,540.

B. C., Port Haney—Maple Ridge Municipal Council, 3,200 ft. 12 in. sewer, 10,000 ft. 8 in. laterals, and 600 ft. 6 in. connections in various locations, to Dawson, Wade & Co., Ltd., Bekins Bldg., Vancouver. Engrs. est. $40,000.

B. C., Vancouver—City will install sewers in Kalso St. and 11th Ave., by day labor. $25,400. C. Brackenridge, City Hall, engr.

Waste Disposal

Proposed Work

R. I., Providence—City, M. S. Budlong, chn. Bd. Health, City Hall, plans incinerator plant. $40,000 or more. Private plans.

Conn., Greenwich — Town, Town Hall, plans garbage disposal plant. $50,000 appropriated.

Wis., Wales—State Bd. Control, A. W. Bagley, secy., Madison, having plans prepared by J. C. White, Madison, incinerator and garbage disposal equipment, at State Sanatorium, here.

Bids Desired

N. Y., New Dorp (Sta. Staten Island) —June 4, by J. A. Lynch, pres, Richmond Boro, Boro Hall, St. George, building and runway, furnaces, chimney, etc. for garbage incinerator, here. Noted May 20.

N. J., Trenton—June 8, at office Hamilton Twp. Com., Greenwood School Bldg., Greenwood Ave., incinerator for garbage and refuse, Tampa, Miami, Knapp and Sylvan Aves., Hamilton Twp. C. S. Sincerbeau, 705 Mechanic Bldg., Trenton, twp. engr.; adv. E. N.-R. May 27.

Fla., Gulfport—June 8, by W. W. Swift, town clk., constructing incinerator. $15,000.

Bridges

Proposed Work

Pa., Pittsburgh—Voted $1,450,000 bonds, reconstructing bridges over Pennsylvania R.R. tracks at 28th St., South Aiken and Millvale Aves.; constructing bridge over Woods Run, and approaches to Elizabeth St. bridge over Baltimore & Ohio R.R. tracks, etc.

W. Va., Huntington — Cabell Co. plans one 200 ft., two 110 ft. and three 296 ft. span bridge with 27 ft. roadway and 6 ft. sidewalks over Bayou River at 5th Ave., 986,000 lb. structural steel and 40,000 lb. reinforcing, etc. $100,000. J. M. Oliver, Huntington, engr.

North Carolina — State Hy. Dept., Raleigh, making plans and soon takes bids rein.-con. bridges, etc. on Project 993, Transylvania Co., $60,000; on Project 843, McDowell Co., $25,000; on Project 834, Henderson Co., $65,000; on Project 681, Scotland Co., $34,000; on Project 542, Guilford Co., $52,000; on Project 584, Randolph Co., $89,000; on Project 480, Wake Co., $43,000; on Project 116, Chowan Co., $36,000; and on Project 109, Bertie Co., $67,000. C. M. Upham, highway engr.

Georgia — Whitfield Co. (Dalton) and Murray Co. (Chatsworth) take bids about June 1, 240 ft. steel bridge over Conasauga River. $30,000.

La., New Orleans — E. Watson, c/o Watson-Williams Syndicate, 832 Common St., takes bids about June 1, bridge over portion Lake Pontchartrain. $5,000,000. Elliott-Harmon Eng. Co., Bank of Commerce Bldg., Memphis, Tenn., engrs. Noted Nov. 19.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making preliminary plans bridge over Tennessee River, on Lenoir City-Sweetwater Rd., Loudon Co. To exceed $250,000. C. N. Bass, highway comr.

Tenn., Chattanooga—Southern R.R. Co., 1300 Pennsylvania Ave., Wash., D. C., B. Harmon, ch. engr., plans viaduct over 3 railroads at 3rd St., 440 ft. structural steel trusses, 1,140 ft. rein.-con. retaining walls, approaches, bituminous roadway, 4,600 cu.yd. rein.-con., 380 reinforcing and 960 tons structural steel.

O., Marion—Marion Co. plans bridge over Whetstone River. $32,000.

Tex., Carthage—See "Streets and Roads."

Tex., Cold Springs — See "Streets and Roads."

Tex., Sanderson — See "Streets and Roads."

Oklahoma — Cherokee Co. (Tahlequah) plans bridge over Grand River between Wagoner and Yonkers. $200,000.

Ont., Toronto—East York Twp. plans 80 to 100 ft. probably concrete bridge over Don River, on Pottery Rd. $25,000. G. R. Jack, 443 Sammon Ave., engr.

Bids Desired

Massachusetts—June 8, by Metropolitan Dist. Com., 1 Ashburton Pl., Boston, rein.-con. bridge over Charles River opposite DeWolf St., Cambridge, 2,000 cu.yd. excav., 35 tons steel sheeting, 4 cofferdams, 5,000 cu.ft. granite masonry, 3 rein.-con. archts., etc. J. R. Rablin, c/o owner, engr.

N. Y., Cohoes—June 8, by Bd. Contr. & Supply, City Hall, bridge over Mohawk River, connecting Bridge Ave. and Ship St.; adv. E. N.-R. May 27.

Pennsylvania — June 4, by Montgomery Smith, purch. agt. Pennsylvania R.R. Co., for Contr. 3, 1926 for girder spans and structural metal work for Bridges, Plans 80207 sheet 1, 80277, 80278, 80285, 80286, 80290, 80296, 80300, 80302, 80312 and 80313. A. C. Shand, Broad St. Sta., Phila., ch. engr.

W. Va., Huntington — June 14, by City Comn., one 1,200 ft. two 100 ft. and two 29½ ft. span steel and concrete bridge over Guyan River, at 5th Ave. $100,000-$125,000. A. B. Maupin, city engr.

Miss., Friar Point — See "Contracts Awarded."

Tennessee—See "Streets and Roads."

Illinois — June 9, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, one 23 ft. rein.-con. slab bridge and one 150 ft. rein.-con. girder bridge on Route 7, Sect. 31-B, La Salle Co.; one 30 ft., one 100 ft. and one 60 ft. rein.-con. substructure on Route 13, Sect. 28-B, St. Clair Co.; one 100 ft. and one 60 ft. steel superstructure on Route 13, Sect. 28-C, St. Clair Co.; six 70 ft. span rein.-con. arch bridge on Route 118, Sect. 13-D, Kendall Co. F. T. Sheets, dir.

Wisconsin—See "Streets and Roads."

Wis., La Crosse—June 4, by C. C. Congdon, city engr., 160 ft. rein.-con. deck girder bridge over La Crosse River. $75,000. W. S. Woods, 524 Batavian Bank Bldg., engr. Noted Mar. 18.

Kan., Coldwater — See "Streets and Roads."

Kan., Marysville — See "Streets and Roads."

South Dakota — June 8, by State Hy. Comn., Pierre, constructing 150 ft. steel truss and four 25 ft. timber trestle approach spans on State Aid Project 134, Stanley Co., 10,221 lb. reinforcing, 115,150 lb. structural steel, 6,336 lb. structural steel piling, etc.; also Minnesota Ave. Bridge, 180 ft. rein.-con. cantilever thru girder, and 480 ft. concrete guardrail, in Sioux Falls, 73,800 lb. reinforcing, etc.

Wyoming—See "Streets and Roads."

Arkansas—See "Streets and Roads."

Tex., Marlin—See "Streets and Roads."

California—June 7, by State Hy. Dept., Sacramento, ten 19 ft. span bridge over New River, two 28 ft. span bridge over Tamarach Canal, and one 19 ft. span bridge over Trifolium Canal, all foregoing timber on pile bents, Imperial Co. R. M. Morton, Forum Bldg., Sacramento, engr.

Ontario—June 1, by T. T. Irving, ch. engr. Canadian Natl. Rys., New Union Sta., Toronto, concrete structures, footings, abutments, etc. for bridges in Manouan, Amos, Alderdale, Beachburg, Caramat, Southampton, Montmagny and Danville Subdivisions; also 6 culverts on Drummondville Subdivision. $500,000.

Ont., London—May 31, by City Council, 125 ft. concrete and steel bridge, 32 ft., on Ridout St. $75,000. W. P. Near, City Hall, engr. Noted Jan. 21.

Bids Received

N. Y., Poughkeepsie—F. S. Greene, supt. Pub. Wks., Albany, May 19, 2 main river piers for Mid-Hudson Bridge, here, Contr. 3, from Blakeslee & Rowlines, 6 Beacon St., Boston, Mass., $1,889,925; from Arundel Corp. & Vang Constr. Co., Pier 2, Pratt St., Liberty Trust Bldg., Baltimore, Md., $1,895,672; from Triest Contg. Corp., 247 Park Ave., New York City, $1,979,031 and from Missouri Valley Bridge & Iron Co., 4th and Walnut Sts., Leavenworth, Kan., $2,025,905. Engrs. est. $2,145,535. Noted May 6.

Tex., Decatur—See "Streets and Roads."

Tex., Henderson — See "Streets and Roads."

Contracts Awarded

Maine—State Hy. Dept., Augusta, substructure steel truss double deck highway bridge over Kennebec River in Bath and Woolwich, to Foundation Co., 120 Liberty St., New York City, N. Y., $1,068,940; and steel, to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa., $1,480,000. Noted May 20.

Vt., Arlington — Town, Clerk's Office, Town Hall, 1 span steel and concrete bridge on site of Water St. Bridge, to M. J. Burrington, Bennington. Engrs. est. $25,000. Noted May 6.

N. Y., Lockport—New York Central R.R. Co., Grand Central Terminal, New York City, strengthening bridge, here, to Jobson Gifford Co., 44th St. and Lexington Ave., New York City, $50,000.

Pa., Woodland—New York Central R.R. Co., 466 Lexington Ave., New York City, N. Y., G. W. Kittredge, ch. engr., reconstructing bridge, here, to Jolson-Gifford Co., 441 Lexington Ave., New York City, N. Y., $80,000.

Mississippi—See "Streets and Roads."

Miss., Friar Point — Coahoma Co. will build 258 ft. bridge over Sunflower River on New Africa Rd., 55,000 ft. timber, 31,000 ft. piling, etc.; 150 ft. bridge 1 mi. west of Farrell, 32,000 ft. timber and 1,760 ft. piling; and bridge over canal, 1 mi. north of Coahoma, 16,000 ft. timber, 600 ft. piling, etc., by day labor.

Ia., Grundy Center — See "Streets and Roads."

Ia., Marengo—Marengo Co., 96 x 20 ft. pony truss bridge with two 40 x 20 ft. I-beam approaches on each end, to M. O. Burnett, Marengo, $28,410. Noted Apr. 8.

Tex., Abilene—See "Streets and Roads."

Tex., Boston—See "Streets and Roads."

Tex., Cameron—See "Streets and Roads."

Washington—See "Streets and Roads."

California—State Hy. Comn., Sacramento, (**e. e. means engineers estimate**), 180 ft. open spandrel arch and four 32 ft. girder approach span rein.-con. bridge over Smith River, near Adams Station, Del Norte Co., to Smith Bros., Eureka, $39,274, e. e. $39,195; 132 ft. 6 ft. rein.-con. box culvert, on Sta. 432-50, one 60 ft. and six 30 ft. span, rein.-con. girder bridge, 24 ft., etc., Sta. 489-78, three 54 ft. and four 26 ft. span rein.-con. bridge, 24 ft., Sta. 513-56, Monterey Co., to Granite Constr. Co., Watsonville, $74,883, e. e. $75,166; 67 ft. skewed truss span timber bridge on pile bents across Brawley Main Canal, 19 ft. span timber bridge on pile bents across Lowline Canal, and eleven 19 ft. span timber bridge across Alamo River, Imperial Co., to W. M. Ledbetter & Co., Alhambra Rd., Los Angeles, $17,355, e. e. $18,004. Grand total $131,512. Noted Apr. 22 and May 13.

Dams

Proposed Work

Wis., Shawano — Wisconsin Power & Light Co., H. N. Carroll St., Madison, making plans rein.-con. dam on Wolf River, near here. $25,000. Power Eng. Co., 621 Metropolitan Life Bldg., Minneapolis, Minn., engr.

Ont., Hanover—Canada Cement Co., 273 Craig W. Montreal, plans repairing dam on Saugeen River, here, damaged by floods. $50,000-$100,000.

Contracts Awarded

N. C., Albermarle—Carolina Power & Light Co., Raleigh, 100,000 hp. dam on Peedee River, to Hardaway Contg. Co., Columbus, Ga. Total incl. land, dam, power house, hydro-electric plant, etc., $8,000,000.

PLUS UPKEEP

THE cost of any hard-surfaced road is the sum of the first cost and interest on the bonds, *PLUS the upkeep.* If you can dodge the need for continuous upkeep, road costs become insignificant.

There are plenty of roads in various parts of the United States which have given 20, 25, 30 and 35 years of service and have not required the attention of a road gang even an average of once a year. Continuous maintenance is unknown to them. These roads are *surfaced with vitrified brick.*

These brick roads are slightly higher in "first cost" than "cheaper" substitutes but they have since saved that difference ten or fifteen times over in freedom from repairs.

To prove the truth of these statements we would like to send you free some actual figures on paving costs and maintenance taken from public records. Write for a complete presentation of the economy of vitrified brick pavements—*the pavements that outlast the bonds.*

Alton Brick Company
Alton, Ill.
Binghamton Brick Company
Binghamton, N. Y.
Central Clay Products Co.
(Distributors MACK Paving Brick)
Wilkes-Barre, Pa.
Cleveland Brick & Clay Company
Cleveland, Ohio
Clydesdale Brick & Stone Co.
Pittsburgh, Pa.
Coffeyville Vitrified Brick & Tile Co.
Coffeyville, Kans.
Collinwood Shale Brick Company
Cleveland, Ohio
Francis Vitric Brick Company
Boynton, Okla.
Georgia Vitrified Brick & Clay Co.
Augusta, Ga.
Globe Brick Company
East Liverpool, Ohio
Hisylvania Coal Co.
Columbus, Ohio
Hocking Valley Brick Company
Columbus, Ohio
Independence Paving Brick Co.
Independence, Kans.
Metropolis Paving Brick Co.
Pittsburg, Kansas
Metropolitan Paving Brick Co.
Canton, Ohio
Mineral Wells Brick Co.
Mineral Wells, Texas
Moberly Paving Brick Company
Moberly, Mo.
Murphysboro Paving Brick Co.
Murphysboro, Ill.
Nelsonville Brick Co.
Nelsonville, Ohio
Peebles Paving Brick Company
Portsmouth, Ohio
Purington Paving Brick Company
Galesburg, Ill.
Southern Clay Mfg. Company
Chattanooga, Tenn.
Springfield Paving Brick Company
Springfield, Ill.
Sterling Brick Company
Olean, N. Y.
Streator Clay Mfg. Company
Streator, Ill.
Thornton Fire Brick Co.
Clarksburg, W. Va.
Thurber Brick Company
Ft. Worth, Texas
Toronto Fire Clay Company
Toronto, Ohio
Trinidad Brick & Tile Company
Trinidad, Colo.
Veedersburg Paver Company
Veedersburg, Ind.
Western Shale Products Company
Fort Scott, Kans.
Westport Paving Brick Company
Baltimore, Md.

VITRIFIED Brick PAVEMENTS

OUTLAST THE BONDS

NATIONAL PAVING BRICK MANUFACTURERS ASSOCIATION, ENGINEERS BLDG., CLEVELAND, OHIO

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Mass., Barnstable—Oyster & Harbor, Inc. plans dredging in West Bay and depositing material in tide water along Grand Sound. $25,000. Private plans.

Mass., Boston—Metropolitan Dist. Comn., 1 Ashburton Pl., plans filling in Dorchester Bay and Bridge from Savin Hill Ave. to Commercial Point-Portion of Old Colony Parkway. $25,000. J. R. Rablin, city engr.

Ill., East St. Louis—East Side Levee & Sanitary Dist., 225 Collinsville St., making preliminary plans cleaning out Cahokia Creek and repairing drainage ditches in area west of Edwardsville. $15,000 or more.

Ia., Maquoketa—Greene Island D. D. 1, Jackson Co., takes bids about July 10, drainage ditches, pumping station, etc. $78,000. Central States Eng. Co., Muscatine, engr.

Ia., Washington—D. D. 8 and 9, Washington Co., take bids about July 10, drainage ditches, levees, etc. $32,000. Central States Eng. Co., 602 Laurel Bldg., Muscatine, engrs.

Texas—Lamar Co. (Paris) and Delta Co. (Cooper), c/o B. F. Williams, state reclamation engr., Paris, making preliminary plans 14,000 acre drainage district along North Sulphur River. $210,000.

Tex., Brownsville—Cameron Co. Water Impvt. Dist. 5, making preliminary plans drainage system reclaiming approximately 23,000 acres for cotton, citrus fruits, etc. $1,000,000. C. P. Williams, Brownsville, consult. engr.

Tex., San Antonio — E. Goeth & associates, c/o Corpus Christi Rd., plans irrigating 277 acres in Bexar Co., pumping from Medina and San Antonio Rivers. $75,000. Private plans.

Calif., Niland—Niland Water Dist. making plans 90 mi. new and repairing old canals. To exceed $100,000. T. H. King, 920 8th St., San Diego, engr.

Bids Desired

Fla., Clewiston — June 15, by K. B. Watkins, secy. Sugarland D. D., constructing rein.-con. water controls, 37,100 lb. reinforcing, 1,900 lin.ft. wood sheet piling, etc. Elliott & Harmon Eng. Co., 807 McCall Bldg., Memphis, Tenn., engrs.

Bids Received

Ia., Onawa—Monona Co., May 11, Oliver Lake D. D. ½ mi. open ditch incl. 201,623 cu.yd. excav., 3,808 ft. 19- to 36-in. corrugated pipe, furnished and placed, 1 head wall and hand operated gate, etc., from F. Grundon, Ft. Dodge, $25,098. Noted May 13.

Contracts Awarded

N. Y., New York—New York Central R.R. Co., Grand Central Terminal, dredging in Hudson and Harlem Rivers, to H. DuBois Sons Co., 17 State St., $35,000.

Calif., Grass Valley — Nevada Irrigation Dist., constructing conduit from end of project known as Sect. 10 to Lake Spaulding conduit, 12,700 lin.ft. metal flume, etc., Contr. 9, to Jasper-Stacy Co., 216 Pine St., San Francisco, $320,938 and $98,684 respectively; also furnishing metal flume, gates and hoists, to California Corrugated Culvert Co., 5th and Parker Sts., Berkeley, $78,229. Grand total $497,850. Noted May 20.

Ontario—L. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, dredging in Port Arthur and Fort William harbors, to Great Lakes Dredging Co., Port Arthur. Engrs. est. $700,000.

B. C., Vancouver — Georgia Hotel Ltd., Standard Bank Bldg., excavation for new hotel, to Northern Constr. Co., Ltd., 736 Granville St., $15,000. Noted Mar. 25 under "Buildings—Commercial."

B. C., Victoria — Anglican Church Bd., excavating and foundation for new cathedral, to Parfitt Bros., Ltd., 1303 Gladstone Rd., $50,000. Noted Dec. 17 under "Buildings—Educational, Religious."

Streets and Roads

Proposed Work

Mass., Dorchester (Boston P. O.)—Dept. Pub. Wks., Boston, plans laying out and constructing courtland Rd. as highway from Harvard to Morton Sts., here. $25,000 or more. J. H. Sullivan, comr.

Conn., Farmington—Town and State Hy. Dept., Hartford, plan improving Farmington Bristol Rd.-Scott's Swamp. $120,000. Town appropriated $30,000 towards cost. J. A. Macdonald, Hartford, highway engr.

New Jersey—State Hy. Comn., Trenton, plans concrete paving 1.6 mi. road from Pensauken Creek to Crescent Route, Burlington and Camden Counties. $80,000. W. G. Sloan, Trenton, highway engr.

Pa., Pittsburgh—Voted $6,127,000 bonds, improving and extending various streets.

W. Va., Fairmont—Union Dist. Marion Co. voted $100,000 bonds, improving roads. B. H. Palmer, Fairmont, engr. Noted Apr. 22.

W. Va., Lewisburg — Lewisburg Dist. voted $127,000 bonds, improving roads. J. K. Monroe, Lewisburg, engr. Noted Apr. 22.

W. Va., Richwood — Election June 1, $78,000 bonds improving various streets. W. D. McClunk, recdr.

North Carolina—State Hy. Dept., Raleigh, plans clearing, grubbing and grading, etc. 3.96 mi. Project 843, McDowell Co. $32,000, 13.06 mi. Project 834, Henderson Co. $95,000, 11.52 mi. Project 480, Wake Co. $55,000, 9.71 mi. Project 279, Sampson Co. $58,000, 4.14 mi. Project 116, Chowan Co. $28,000, 14.22 mi. Project 109, Bertie Co. $91,000 and 11.55 mi. Project 993, Transylvania Co. $78,000; grading and sand asphalt paving, etc. 7.21 mi. Project 681, Scotland Co., $198,000; grading and concrete or asphalt paving 10 mi. Project 542, Guilford Co. $420,000 and 6.86 mi. Project 698, Union Co. $189,000; also grading and topsoiling 5.99 mi. Project 142, Halifax Co. $38,500 and 15.8 mi. Project 584, Randolph Co. $115,000. C. M. Upham, highway engr.

N. C., Mt. Airy — Plans paving Hines, Taylor, Orchard and Willow Sts. $100,000.

Ga., Metter—Candler Co. voted $125,000 bonds, improving roads.

Ga., Thunderbolt—Election soon $50,000 bonds, paving and sewers in various streets. O. E. Bryan, mayor.

Ga., Rome—Plans paving 8 streets. $30,000.

Fla., Tampa—Plans 2½ in. asphaltic block or vitr. brick on rock or shell paving 22nd St. from Hillborough to Sligh Aves $76,693, 22nd St. from Chelsea St. to Hillsborough Ave. $61,530, 22nd St. from 26th Ave. to Chelsea St. $61,539, Sligh Ave. from 22nd to 20th Sts. $32,750 and Sligh Ave. from 15th to 22nd Sts. $46,767; also curbing and 3 in. vitr. brick on 6 in. shell paving Plymouth St. from North Blvd. to Kimmon Ave. $47,319, Davis St. from North Blvd. to Kinnion Ave. $47,319 and Sligh Ave. from North Blvd. to Hillsboro Rd. $136,050. R. D. Martin, City Hall, engr.

Ala., Sheffield — Takes bids probably in July asphaltic concrete paving various streets. $150,000.

Miss., Shelby—Making preliminary plans grading, curbing, and concrete paving 1.25 mi. state highway through city, 18 ft. H. C. Dietzer, Jackson, engr.

Miss., Vicksburg — Warren Co. making preliminary plans grading, and gravel surfacing 25 mi. various secondary highways. E. J. Tucker, Bonelli Bldg., engr.

La., New Orleans — City Council soon takes bids alternate paving 2 mi. Fitzgr Ave. from Texas Ave. to city limits. $70,000.

Tennessee — State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, soon takes bids probably concrete paving 4.5 mi. Dyer-Rutherford Rd., and 15 mi. Dyer-Weakley Co. line Rd., both Gibson Co.; also 4 mi. Millington-Covington Rd., Shelby Co.; and oiling 25 mi. Tullahoma-Cowan Rd., Coffee and Franklin Counties. C. N. Bass, comr.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, making surveys improving 10 mi. Erwin-Johnson City Rd., Unicoi Co. C. N. Bass, comr.

Tenn., Nashville—Plans oiling and gravel surfacing Hancock, Arrington, North 3rd, Trentland and Pennock Sts., 15th, Grand and Gaitland Aves. To exceed $25,000. Work will probably be done by city forces. W. W. Southgate, city engr.

Tenn., Nashville — Bd. Pub. Wks. plans concrete curbing, guttering and paving 8th Ave. from Church to Broad Sts. W. W. Southgate, City Hall, engr.

Tenn., Oneida — Voted $45,000 bonds, paving various streets.

Kentucky—State Hy. Dept., Frankfort, rejected bids May 10, high type surfacing 4.495 mi. Harlan-Pineville Rd., Federal Aid Project 151-A, Harlan Co., and 10.186 mi. Sect. B same road; also 11.494 mi. Sect. C same road, Bell Co. E. N. Todd, highway engr. Noted Apr. 22.

Ind., Evansville—Vanderburgh Co. plans grading and asphaltic penetration on macadam surfacing 3 mi. Weinbach-Keck Rd. To exceed $25,000.

Ind., Indianapolis—Plans paving Bicking and Delaware Sts., $25,084; sidewalks and paving Sturm, Manker, Agnes and 18th Sts., $27,015; sidewalks, curbing and paving Walnut St. from Bright to Wilson Sts $51,652, and North and Abbott Sts. $26,250. G. G. Schmidt, City Hall, engr.

Mich., Caro — Tuscola Co. takes bids about July 15, concrete paving 1 mi. T. L. 38-8, 3 mi. T. L. 81-8, 4 mi. T. L. 31-20 and 1 mi. T. L. 46-33. E. R. Benkert, Port Huron, engr.

Mich., Detroit—Made plans 3½ in. sheet asphalt paving 4,380 sq.yd. Brentwood Ave. $17,560, 21,600 sq.yd. Charles Ave. $86,300, 10,200 sq.yd. Kenney Ave. $40,710, 1,790 sq.yd. Mt. Clemens Dr. $7,140 8,370 sq.yd. LaBelle Ave. $33,500, 2,460 sq.yd. Tuller Ave. $9,870, 1,060 sq.yd. Bryden Ave. $4,230, 4,340 sq.yd. Gouldburn Ave. $17,330, 970 sq.yd. McPherson Ave. $3,870, 17,450 sq.yd. Petoskey Ave. $69,900, 8,840 sq.yd. Parkgrove Ave. $35,300, and 18,100 sq.yd. Promenade Ave. $72,280. P. A. Fellows, City Hall, engr.

Mich., Wyandotte—Making plans grading, concrete curbing and concrete paving 13 streets. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Ill., Cairo—Soon takes bids grading, and 1 in. compact rock asphalt on 6 in. gravel paving, etc. 40,000 sq.yd. streets in Dists. 4 and 5, $112,000; also plans rock asphalt resurfacing 7th and 11th St., 8,500; and "White Way" lighting system on Commercial and Ohio Aves., 2nd and other streets, incl. 97 ornamental iron standards and 400 cp. lights, globes, etc., $21,237. G. F. Dewey, City Hall, engr.

Ill., Mt. Vernon — Making preliminary plans grading, curbing and concrete paving various streets. $85,000. C. H. Hammond, City Hall and P. B. Wilson, 1st Natl. Bank Bldg., Marion, engrs.

Wis., Whitewater—C. Inman, city clk., making plans concrete paving Center Ave. between 3rd St. and Summit Ave. $25,000. Engineer not selected.

Ia., Centerville—Making plans sheet asphalt, 7 in. rein.-con. or Warrenite bitulithic paving various streets. To exceed $25,000. M. G. Hall, Centerville, engr.

Ia., Waterloo—Making preliminary plans grading, curbing and asphalt pavings 8,000 sq.yd. various streets. $100,000.

Minn., Moorhead—Plans paving, etc., 10 blocks various streets. $45,000. R. G. Price, city clk.

Kan., Lawrence — Douglas Co. making plans bituminous macadam, concrete or brick on concrete surfacing 4.997 mi. Midland Trail. E. E. Trueblood, Lawrence, co. engr.

Kan., Phillipsburg — Making plans vitr. brick paving various streets. To exceed $25,000. Haskins & Crawford, 822 Finance Bldg., Kansas City, Mo., engrs.

Kan., Independence — Montgomery Co. plans grading, and concrete or brick paving, etc. 2.001 mi. Federal Aid Project 199-A, and 2.81 mi. Federal Aid Project 199-B, both 18 ft. H. K. Hibbard, Independence, co. engr.

Neb., Humboldt — Making plans paving various streets. To exceed $25,000 Grant, Fulton & Letton, 525 South 13th St., Lincoln, engrs.

N. D., Fargo — Making plans concrete, asphaltic concrete and brick paving 30,000 sq.yd. various streets. $100,000. R. T. Jacobson, city engr.

N. D., Minot — Plans paving 54 blocks various streets. $276,000. W. W. Peterson, city engr.

Mo., Aurora—Plans concrete paving 25,000 sq.yd. various streets. Black & Veatch, 700 Mutual Bldg., Kansas City, engrs.

Mo., Canton—Voted $25,000 bonds, curbing, guttering, lighting system and paving 10 blocks various streets. Total $75,000. W. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, engrs. Noted Apr. 29.

Mo., Charleston—Mississippi Co. making preliminary plans grading, concrete paving, etc., 10 mi. Bertrand-Dogwood Special Rd. Dist. P. A. Tenner, Court House, co. engr.

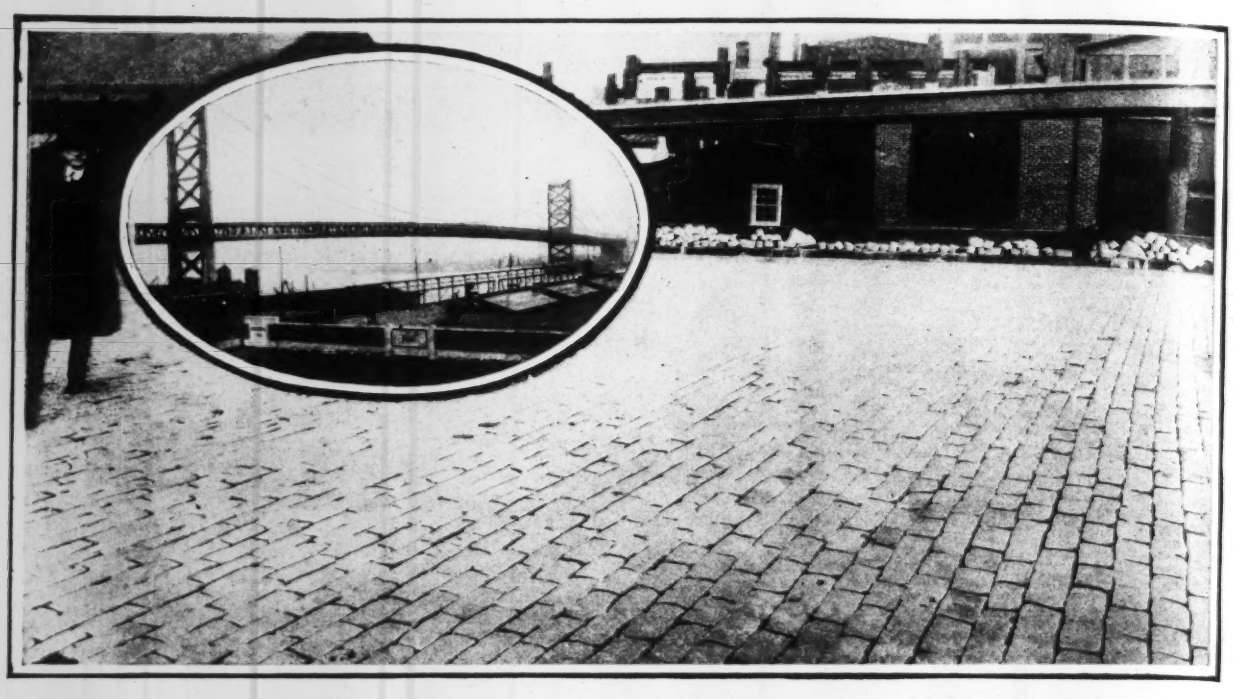
Mo., Hamilton—Making preliminary plans grading, and 6 in. rein.-con. paving, etc. 6,000 sq.yd. various streets. J. E. Rider, Richmond, engr.

Mo., Joplin — Making preliminary plans grading, curbing and Class "G" macadam paving Park Ave. between 4th and Central Sts.; bituminous macadam paving Virginia St. between 15th and 24th St.; and Warrenite bitulithic paving Pennsylvania Ave. between 12th and 26th Sts. S. P. Ashcraft, Jr., City Hall, engr.

Mo., Kirksville—Soon takes bids grading, and brick on concrete paving, etc., 5,000 sq.yd. Elson St.

Mo., Lee Summit—Takes bids in June, 7 in. concrete paving various streets. $33,000. E. T. Archer & Co., 609 New England Bank Bldg., Kansas City, engrs.

Arkansas—State Hy. Dept., Little Rock, making preliminary plans grading and con-



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Streets and Roads (Continued)

crete surfacing 1.75 mi. road from Hot Springs city limits south (Garland Co. Road Impvt. Dist. 8), 18 ft., Garland Co. R. C. Limerick, highway engr.

Ark., Hot Springs—Soon takes bids grading, curbing and paving streets in Paving Dist. 94. $31,953. G. C. Smith, City Hall, engr.

Ark., Hot Springs—Making preliminary plans grading and paving streets in Dist. 89; also grading, curbing and guttering streets in Dist. 82. $25,000. G. C. Smith, City Hall, engr.

Tex., Brackettville—Kinney Co., election July 10, $150,000 bonds, constructing various roads. J. H. Stadler, co. judge.

Tex., Carthage—Panola Co. making plans and soon takes bids grading and bridging 4 mi. Highway 43, 26 ft. $26,000. D. E. Martin, Carthage, co. engr.

Tex., Cold Springs — San Jacinto Co. making plans grading, bridging and gravel surfacing 5.87 mi. State Highway 35, 18 ft. $130,000. J. R. Spiller, Cold Springs, co. engr.

Tex., Laredo—Webb Co. making plans 3 in. asphalt macadam on caliche gravel paving 13.246 mi. Highway 12-A, 18 ft. $181,572.

Tex., Luling—Plans hard paving 9 blocks various streets, 35 ft. $60,000. Address C. T. Greenwood, mayor.

Tex., Sanderson — Terrell Co. making plans grading, bridging and gravel surfacing 7.42 mi. Highway 3, 18 ft. $68,700. J. Stovell, Sanderson, co. engr.

Tex., Sherman—Election June 15, $100,000 bonds, rein.-con. paving various streets. O. J. S. Ellingson, city mgr.

Tex., Wichita Falls — Election June 5, $150,000 bonds permanent paving various streets. F. M. Rugley, Wichita Falls, engr.

Oklahoma — State Hy. Dept., Oklahoma City, making surveys grading, etc., 10 mi. Pawhuska-Burbank-Ponca Rd., 30 ft. $44,000. J. M. Page, highway engr.

Okla., Lawton—Plans concrete widening 7,260 sq.yd. Ft. Sill Blvd. $28,410. G. C. Dale, Lawton, engr.

Okla., Lindsay—Plans grading and gravel surfacing 42,600 sq.yd. Cherokee, Chickasaw and Kiowa Sts. $31,200. J. W. Cates, mayor. Engineer not selected.

Okla., Oklahoma City — Plans widening and raising South Robinson Ave. from Reno St. to Belt line R.R. tracks. $175,000. B. M. Hart, City Hall, engr.

Calif., Fresno—Fresno Co. making plans constructing Los Gatos Rd. To exceed $35,000. C. P. Jensen, Fresno, co. surv.

Calif., Los Angeles—City Harbor Comm. made plans resurfacing, Warrenite-bitulithic wearing surface 500,000 sq.ft. Budger Ave. and Dock St. J. C. Shaw, City Hall, engr.

Calif., Martinez—Making plans improving Sanford, Wilcox Aves., etc., 6,719 cu. yd. excav., 883 cu.yd. fill, 159,858 sq.ft. 6 in. oil macadam paving, etc. $40,000 or more. E. A. Hoffman, City Hall, Richmond, engr.

Calif., North Sacramento—Making plans grading and 5 in. asphaltic concrete paving, etc., 265,000 sq.ft. Del Paso Blvd. J. N. Bidwell, city engr.

Calif., Redding—Shasta Co. making surveys constructing Igo-Arbuckle Mt. and Pine Grove-Shingletown Rd. To exceed $25,000.

Calif., San Diego—Common Council plans improving C and 28th Sts., 29,400 sq.ft. 2 in. on 3 in. asphaltic concrete and 153,014 sq.ft. 5 in. concrete paving, 590 lin.ft. concrete curbing, 300 sq.ft. concrete sidewalk, etc. F. A. Rhodes, city engr.

Calif., San Francisco—Made plans grading, curbing, walks, etc., on Peralta Ave. between York and Holloday Aves., and Tomasa St. between Peralta and Montcalm Sts., $25,000; also curbing, sidewalks and concrete paving 21,865 sq.ft. Elizabeth St., etc. M. M. O'Shaughnessy, city engr.

Calif., Santa Cruz—Santa Cruz Co. made plans grading and concrete paving 1,160 cu. yd. road fronting Santa Cruz Portland Cement property on Coast Rd. L. Bosman, Santa Cruz, co. surv.

Calif., Stockton—Making plans grading, curbing, guttering, walks, 1½ in. Warrenite-bitulithic on 3½ in. asphaltic concrete and cement gravel surfacing 138,599 sq.ft. Pacific Ave. W. B. Hogan, city engr.

Calif., Tracy — Made plans improving various streets, 111,457 sq.ft. each grading, and 1½ in. Willite asphaltic concrete on 3½ in. asphaltic concrete paving, etc. To exceed $25,000. E. C. Finley, city engr.

Ont., Brantford—Council plans concrete paving William and Albion Sts. $35,000. F. P. Adams, City Hall, engr.

Ont., Preston—City council plans concrete paving various streets. $30,000. G. Wurster, City Hall, engr.

Ont., St. Catherines—Plans asphaltic concrete on concrete paving 8,500 sq.yd. Louisa St. $32,630. B. F. Lamson, City Hall, engr.

Ont., St. Catharines—Making plans asphaltic concrete on concrete paving St. Paul St., $23,980; and asphalt surfacing Church St. Total $27,625. B. F. Lamson, City Hall, engr. Noted Apr. 22.

Ont., Stratford — Perth Co. plans macadam paving various roads, etc. $75,000. J. Roger, Mitchell, engr.

Ont., Sudbury—Council plans macadam paving Elm and Station Sts. $35,000, and concrete sidewalks $20,000. W. J. Ross, City Hall, engr.

Ont., Toronto—York Twp. making plans asphalt or asphaltic concrete paving 550 ft. Blackthorn Ave., $7,829; and 1,250 ft. Cherrywood Ave., $19,146; both 24 ft. F. B. Goedike, 40 Jarvis St., engr. Noted Apr. 1.

Ont., Toronto — East York Twp. plans concrete guttering, concrete curbing and paving 475 ft. Fulton Ave., 28 ft.; and probably asphalt paving 3,700 ft. Cosburn Ave., 16 ft., $54,270. G. R. Jack, 443 Sammon Ave., engr.

Ont., Toronto — East York Twp. plans guttering and asphalt paving 3,585 ft. Woodbine Ave., 28 ft. $71,700. G. R. Jack, 443 Sammon Ave., engr.

Ont., Toronto—York Twp. plans guttering and asphalt on concrete paving 2,100 ft. St. Johns Rd., 28 ft. $40,551. F. B. Goedike, 40 Jarvis St., engr.

Ont., Toronto — York Twp. plans brick block guttering and bituminous concrete on concrete paving 770 ft. Conway Ave. $10,481, 660 ft. Blandford Ave. $9,776, and 660 ft. Rockvale Ave. $9,492, all 24 ft. F. B. Goedike, 40 Jarvis St., engr.

Man., Winnipeg—City Council plans new paving and stone sidewalks on various streets. $250,000 each.

Bids Desired

N. Y., Long Island City—May 28, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and granite block repaving Meadow St.; sheet asphalt repaving Woolsey St., Ditmas and Cooper Aves.; grading, curbing and sidewalks from Van Dam to Hulst Sts., and permanent paving Van Dam St.

N. Y., New York—June 3, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., granite block on concrete paving Boston Rd.; and grading, culverts, etc. in Wilson Ave., East 211th and West 263rd Sts.

N. Y., St. George — June 1, by J. A. Lynch, pres. Richmond Boro, Boro Hall, granite block repaving 2 ft. wide, outside and adjoining trolley tracks on Van Duzer St. from Victory Blvd. to Hannah St., and from Swan to Wright Sts.

N. Y., White Plains—June 4, at office F. L. Merritt, clk. Bd. Supervs. Westchester Co., Court House, rein.-con. paving roads in Pleasantville, Briarcliff Manor, Yonkers, and here; adv. E. N.-R. May 27.

N. J., Freehold—June 9, by Bd. Freeholders Monmouth Co., rein.-con. paving center strip Keyport-Matawan Rd. 64; and sheet or rock asphalt paving Front St., Red Bank, Rd. 49, and center strip from Red Bank to Rumson, Rd. 48. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr.; adv. E. N.-R. May 27.

N. J., Summit—June 1, by Road Com. Union Co., Court House, Elizabeth, grading and rein.-con. paving Morris Ave., River and Chatham Rds. J. L. Bauer, 80 Broad St., Elizabeth, co. engr. Noted Jan. 28.

N. J., Trenton — June 1, by Bd. Freeholders Mercer Co., concrete paving 1,000 ft. Washingtons Crossing-Pennington Rd., $25,000; and 3.5 mi. Yardville-Allentown Rd., $160,000. H. F. Harris, Court House, engr.

N. J., Wildwood—June 16, by Bd. Freeholders Cape May Co., Court House, Cape May, rein.-con. paving 33,596 sq.yd. Wildwood Blvd., here. R. F. Smith, Marmora, co. engr.; adv. E. N.-R. May 27.

Pa., Cross Roads (Felton P. O.)—June 17, by Boro Council, 1 mi. water bound macadam paving road. J. A. Michels, civil engr.; adv. E. N.-R. May 27.

Pa., Curwensville — June 7, by Boro Council, J. A. Dale, secy., concrete paving, etc., approximately 1 mi. State St. $50,000. R. E. Hess, chn. Street Com.

Pa., Felton—June 17, by Boro Council, water bound macadam paving 0.5 mi. various roads. J. A. Michels, civil engr.; adv. E. N.-R. May 27.

Maryland—June 8, by State Rds. Comn., Baltimore, concrete paving 2 mi. Contr. M-64, Montgomery Co., and 2.97 mi. Contr. AA-43, Anne Arundel Co. graveling 0.76 mi. Contr. P-61, Prince George Co., 3.75 mi. Contr. Ch-38 Charles Co., and 2 mi. Contr. Ch-39 Charles Co. J. N. Mackall, chn.; adv. E. N.-R. May 27.

Md., Baltimore—June 2, by Bd. Awards, sheet asphalt paving 22,000 sq.yd. Contr. 341, and concrete paving 11,000 sq.yd. Contr. 342. S. Purcell, City Hall, engr.

Virginia—June 8, by State Hy. Comn., Richmond, concrete and bituminous macadam paving roads on Projects S-204, S-217-B, S-273-A, S-344-C, S-434-A; and bridge on Project S-420-B; adv. E. N.-R. May 27.

W. Va., Moundsville—June 14, at office of L. L. Stidger, city clk., City Bldg., 6th St., curbing and brick, block, concrete or asphalt paving Water St. from 14th to 16th Sts., 14th St. from Water St. to Purdy Ave., 5th St. from Grant to Cedar Aves., 2nd St. from Ash to Cedar Aves., Long Center St. from Ash to Cedar Aves., Morton Ave. from 3rd to 5th Sts., and Birch Ave. from 2nd to 3rd Sts. Noted Apr. 29.

Ga., Adel—June 4, by City, J. J. Parish, mayor, grading, curbing, guttering and 6 in. concrete, sheet asphalt, asphaltic concrete, penetration macadam or brick on sand paving, etc., 25,000 sq.yd. various streets. J. B. McCrary Eng. Corp., Citizens Southern Bldg., Atlanta, engrs.

Miss., Tunica — June 7, by City, gravel surfacing 5 mi. roads in Dundee Special Road Dist. Southern Eng. Co., Clarksdale, engr.

Miss., Woodville.— June 15, by Bd. Supervs. Wilkinson Co., gravel surfacing 8 mi. scenic highway along Mississippi River between Woodville and Louisiana state line. $68,895. Work will be done under supervision State Hy. Dept., Jackson. Noted Mar. 12.

La., Homer—Taking bids grading, curbing, guttering, sidewalks, etc. and 6 in. rein.-con. paving 12,230 sq.yd. various streets. C. D. Evans, Levy Bldg., Shreveport, engr.

Tennessee—June 11, by State Dept. Highways & Pub. Wks., Nashville, grading, bridging, paving, etc. roads in 25 counties. To exceed $2,000,000. C. N. Bass, comr.; adv. E. N.-R. May 27.

Tenn., Nashville — See "Contracts Awarded."

O., Akron — June 4, by Comrs. Summit Co., grading, bituminous or rein.-con. paving 36,800 sq.yd. South Main St. 50D. $154,000. H. G. Sours, Court House, engr.

O., Cincinnati—June 4, by Comrs. Hamilton Co., widening and tar bound macadam repaving 10,100 ft. Drake Rd. from Indian Hill Rd. to point 3,325 ft. north Shawnee Rd., $36,348; tar surface treating 30 mi. Woodlawn and Western Divs. $25,538, and 30 mi. Eastern and Cheviot Divs. $25,313, all 16 ft. E. A. Gast, Court House, engr. Noted May 13.

O., Cleveland—May 29, by Comrs. Cuyahoga Co., grading, etc., Broad Rd., $13,300, and paving Edgerton Rd. 7, $22,500. F. Lander, Court House, engr.

O., Cleveland—June 2, by Comrs. Cuyahoga Co., paving, etc. Edgerton Rd. 5 from Broadview Rd. to Richfield Rd., $77,600; and Cedar Point Hill Rd. from Columbia Rd. easterly to Rocky River, $36,000. F. Lander, Court House, engr.

O., Lakewood (Cleveland P. O.)—June 1, by City, paving, etc. Adeline, Hilda, Crestline, Northland and Phoenix Aves. To exceed $25,000. E. A. Fisher, City Hall, engr.

Ind., Crown Point—June 8, by Comrs. Lake Co., grading, paving, etc., Oliver Starr et al, gravel road, Calumet Twp., $117,500. W. E. Witaker, aud.

Ind., La Porte—June 7, by Bd. Comrs. La Porte Co., grading and paving, etc., Charles Walker et al Rd., Hudson Twp., $28,292, and Edward Luedtke et al Rd., Center Twp., $54,067. F. A. Hausheer, aud.

Ind., Terre Haute — June 3, by Comrs. Vigo Co., improving D. Russ Wood et al Rd., Harrison Twp. $73,125. J. Dreker, aud.

Mich., Monroe — June 7, by City Clerk, concrete paving 0.593 mi. 50-5 Sect. B. W. W. Lavers, Plymouth, engr.

Illinois—June 9, by Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete vitr. brick, or bituminous concrete with or without binder course paving 1.67 mi. Route 4, Sect. 63, 24 ft., St. Clair and Madison Counties, 0.86 mi. Route 7, Sect. 30-N, 7.19 mi. Route 7, Sect. 30, and 5.06 mi. Route 7, Sect. 31 all 18 ft., La Salle Co., 1.89 mi. Route 8, Sect. 50, 20 ft., and 9.38 mi. Route 8, Sect. 51, 4 ft. Fazewell Co., 2.62 mi. Route 13, Sect. 29, 18 and 20 ft. St. Clair Co., and 1.23 mi. Route 23, Sect. 5, 18 ft. LaSalle Co.; grading 1.06 mi. Route 7, Sect. E, LaSalle Co., 24,885 cu.yd. excav., etc., and 6.15 mi. Route 13, Sect. 28-S, St. Clair Co., 118,966 cu.yd. excav., etc. F. T. Sheets, dir.

Ill., Anna—June 1, by City Clerk, grading, curbing and concrete paving streets in Dists. 6 and 7. $60,000. Taylor & Woltman, Unity Bldg., Bloomington, engrs. Noted Apr. 15.

Ill., Chicago—June 7, by G. A. Quinlan, supt. Highways, Cook Co., County Bldg., concrete paving 2 mi. Burnham Ave. $118,618, 2 mi. Michigan City Rd. $113,365, 1½ mi. 154th St. $88,700, 4 mi. Harlem Ave.

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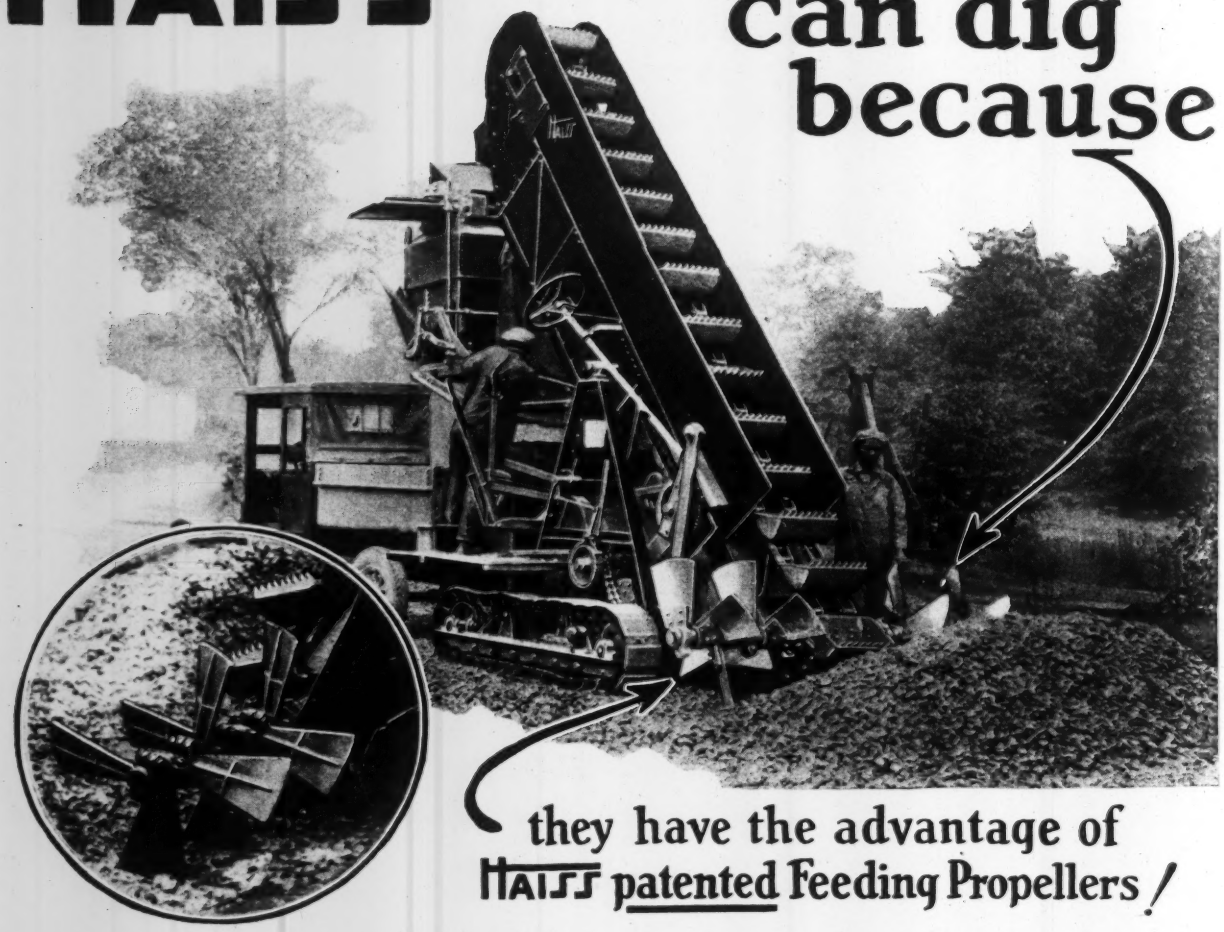

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Back of the simple, sturdy feeding device is the driving power of a big 37-hp. Waukesha motor—with power enough to meet any need. And, matching this high power is the strength of materials and design of parts which enables you to put the load on the machine without fear of breakage.

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Portable Belt Conveyors *Clamshell Buckets* *Elevators, Screens, etc.*

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Haiss Feeding Propellers, in combination with other features of our machine are covered by reissue patent No. 15,515, dated January 2, 1923, a reissue of patent No. 1,345,172, dated June 29, 1920.

We have instituted suit against an infringing manufacturer advertising for sale loaders containing the above mentioned features.

Notice is hereby given that we will vigorously prosecute any infringement and the public is warned against buying or using any product infringing our patents.

George Haiss Mfg. Co., Inc.

Streets and Roads (Continued)

$245,660, 3¾ mi. Elmhurst Rd. $221,068, 3 mi. 131st St. $184,964, and 1 mi. Walters-Irlingston Ave. $67,347, all 24 ft. wide.

Ill., Du Pue — June 1, by Bd. Local Impvts., at office C. E. Pope, city clk., grading, curbing, guttering, sewers and 8 in. concrete paving 12,156 sq.yd., and 6- to 8-in. concrete paving 2,994 sq.yd. various streets. R. L. Schomberger, Amer. Hotel, Princeton, Ill., engr.

Wisconsin—June 3, by State Hy. Comn., Div. Office 6, 213 South Barstow St., Eau Claire, concrete paving, etc. 4,166 sq.yd. Menomonie-Hudson Rd., Federal Aid Project 370-B, Dunn Co.; concrete paving 1,085 sq.yd. and constructing Wilson Creek Bridge to Red Cedar River connection on same road; also improving 9.716 mi. Marshfield-Neillsville Fairchild Rd., Federal Aid Project 402-A, Clark Co., 102,111 cu.yd. earth excav., 9,090 ft. intercepting ditches, etc. J. T. Donaghey, Madison, ch. engr.

Wisconsin—June 4, by State Hy. Comn., Div. Office 8, 1st. Natl. Bank Bldg., Superior, concrete paving, etc. 53,962 sq.yd. Federal Aid Project 377-B; and crushed graveling, etc. 7,981 cu.yd. Federal Aid Project 408-B, Barron Co., J. T. Donaghey, Madison, ch. engr.

Wis., Fond du Lac — June 3, by J. Hohensee, city clk., various types paving approximately 55,000 sq.yd. 17 streets. G. H. Stanchfield, City Hall, engr. Noted Apr. 22.

Ia., Toledo — May 31, by E. A. Benson, City Hall, grading, curbing and 6 in. gravel, crushed stone, 4 in. asphaltic macadam, 2 in. asphaltic macadam or 6 in. concrete paving 65,286 sq.yd. various streets. $185,000. Former bids rejected. M. Tschirgi & Sons, 712 Amer. Trust Bldg.; Cedar Rapids, engrs. Noted Apr. 29.

Kan., Coldwater — June 10, by Auditor Comanche Co., grading and bridging 4.953 mi. Federal Aid Project 337-A.

Kan., Marysville — June 3, by Auditor Marshall Co., grading and bridging 1.098 mi. Federal Aid Project 182-A; 1.004 mi. Federal Aid Project 183-A; 1 mi. Federal Aid Project 184-A; and 0.417 mi. Federal Aid Project 249-A.

Neb., Falls City—May 31, by M. F. Naylor, city clk., brick or asphalt paving 55 blocks various streets. J. Mullin, city engr.

Wyoming—June 4, by State Hy. Comrs., Cheyenne, **(F. A. P. means Federal Aid Project)**, grading, graveling 7,400 cu.yd. and constructing one 30 ft. concrete span bridge on F.A.P. 161-B, Big Horn Co., $40,800; grading and constructing 38 ft. and 69 ft. timber bridges on 7.4 mi. F.A.P. 188-A, Lincoln Co. $74,842, and 57 ft. steel bridge with 92 ft. pile trestle approach, etc. on 6.148 mi. F.A.P. 189-A, Johnson Co. $56,852; also 9 log bridges on 15 mi. F.A.P. 187, Weston Co., $57,077.

Arkansas—May 31, by State Hy. Dept., Little Rock, **(F. A. P. means Federal Aid Project)**, improving 11.02 mi. Batesville-Heber Springs Rd., F. A. P. 240-B, Independence Co., 12.25 acres grubbing, 17,956 cu.yd. solid rock, 47,850 cu.yd. earth excav., 6,588 cu.yd. borrow, 22,465 sta.yd. overhaul, 34,740 lb. reinforcing, and 6,830 lb. structural steel, etc.; 1.65 mi. Walnut Ridge-Hoxie Rd., F. A. P. 241-A, Lawrence Co., 4,292 cu.yd. excav., 2,540 cu.yd. graveled shoulders, 17,414 sq.yd. concrete surfacing, 1,090 lb. reinforcing, etc.; 10.9 mi. Tuckerman-Alicia Rd., Impvt. Dist. 8, Jackson Co., 11.23 acres grubbing, 74,584 cu.yd. earth excav., 20,567 cu.yd. gravel surfacing, 23,675 cu.yd. overhaul, 39,371 ft. treated timber, etc.; 7.95 mi. Hamburg-Montrose Rd., F. A. P. 231-A, Ashley Co., 14,451 cu. yd. gravel surfacing, etc.; 6.31 mi. Warren-North Rd., F. A. P. 229-A, Bradley Co., 14.8 acres clearing, 7.76 acres grubbing, 69,892 cu.yd. earth excav., 24,922 sta.yd. overhaul, 1,390 ft. treated and 27,475 ft. untreated timber, 18,449 lb. reinforcing, etc.; 5.07 mi. Stuttgart-Slovak Rd., F. A. P. 199-A, Prairie Co., 19,036 cu.yd. earth excav., 6,601 lb. reinforcing, etc.; 4.91 mi. Dermott-Collins Rd., F. A. P. 194-A, Drew Co., 20.83 acres grubbing, 78,173 cu.yd. earth excav., 45,691 ft. treated and 2,500 ft. untreated timber, 6,789 lb. reinforcing, etc.; also one 210 ft. and one 150 ft. rein.-con. girder bridges over Holman Creek, near Huntsville, Madison Co., 71,690 lb. reinforcing, etc., and rein.-con. bridge over Spadra Creek, on F. A. P. 26-A, Clarksville, Johnson Co., 105,150 lb. reinforcing, etc. R. C. Limerick, ch. engr.

Texas — June 15, by State Hy. Dept., Austin, bituminous macadam paving 3.91 mi. Federal Aid Project 113-2 B, Unit 2, $26,000; also 4.85 mi. Highway 2-E, State Aid Project 413-B, Unit 2, $25,000, both 18 ft. A. C. Love, Austin, highway engr. Noted May 13 under "Hillsboro."

Tex., Gonzales — June 15, by State Hy. Dept., Austin, with 4 in. waterbound macadam and 1 in. limestone rock asphalt on sledged stone surfacing 8.084 mi. Highway 81, Federal Aid Project 440-B, Gonzales Co. $150,750. J. G. Irby, Gonzales, engr.

Tex., Groveton—June 5, by J. O. Booker, engr., Groveton, grading and bridging 19.054 mi. Highway 94, State Aid Project 677-A, 18 ft., for Trinity Co. $112,600. Noted Apr. 29.

Tex., Marlin — June 15, by State Hy. Dept., Austin, grading and bridging 5.66 mi. Highway 108, State Aid Project 67-B, 18 ft. $46,000. B. B. Harris, Rosebud, engr. Noted Mar. 18.

Tex., Seymour — June 11, by N. G. Mitchell, judge Baylor Co., rein.-con. paving 8,659 sq.yd. Highway 30, State Aid Project 564, Unit 2, $26,300; and 65,753 sq. yd. Highway 24, Federal Aid Project 455-A, $225,280. J. G. Rollins, resident engr.

Okla., Muskogee—June 10, 7 in. concrete paving 25,500 sq.yd. various streets. $90,000. J. R. March, Muskogee, engr. Noted Apr. 29.

California—June 7, by State Hy. Dept., Sacramento, grading, crushed stone or gravel with decomposed granite surfacing 6.5 mi. road between Brawley and West Moreland, Imperial Co.; grading, crushed stone or gravel grading, surfacing 10.8 mi. road between Alturas and Royce Ranch, Modoc Co.; and widening, asphaltic concrete surfacing 1.1 mi. road between Globe Iron Wks. and El Camino Ave., Sacramento Co. R. M. Morton, Forum Bldg., Sacramento, hy. engr.

Calif., Oroville—June 7, by C. F. Belding, clk. Butte Co., improving Oroville-Wyandotte Rd. between Garden Ranch and Wyandotte, 5,670 tons broken stone surfacing, 174 tons Grade "E" asphalt oil. H. H. Hume, Oroville, co. surv.

Calif., Santa Cruz — See "Contracts Awarded."

Ont., Maxville—June 1, by J. Vallance, R. R. 2, loose crushed stone surfacing 5,400 yd. streets.

Bids Received

Mass., Athol—Dept. Pub. Wks., Boston, May 18, bituminous macadam paving 8,429 ft. highway, here, from Kelleher Bros., Turners Falls, $97,234. Noted May 13.

Mass., Lowell—Asphalt paving various streets, from A. Pallotta, Dracut, $50,100.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., May 20, sheet asphalt concrete paving and repaving East Tremont Ave. from Brusstar Constr. Co., Edgewater Rd. and Stafford Ave., $185,757; curbing, sidewalks, etc., on La Salle Ave., from C. Turiano Contg. Co., 3185 East Tremont Ave., $6,694; grading, curbing and sidewalks on Edison Ave., from A. Gregorio & Co., 1121 Nicol Ave. $18,066, also on Wallace Ave. and grading, inlets, etc., on Paulding Ave., from L. Di Minna, 2366 Lawrence St., $2,529 and $3,598 respectively. Noted May 13.

N. J., Trenton — City Com., May 14, paving 10 streets, from Union Paving Co., 30th and Locust Sts., Phila., Pa., $202,582; and 4 streets, from A. DeLucia, 52 Bayard St., $71,143. Work involves 55,000 sq.yd. asphalt and 7,000 yd. granite block. Noted May 6.

Pennsylvania — State Hy. Dept., Harrisburg, May 20, **(R. means Route and A. means Application)**, one course rein.-con. paving, etc. 8,055 ft. A. 3528, Somerset Co., from M. F. McCabe & Co., 309 Deveny Bldg., Fairmont, W. Va., $61,727; 16,253 ft. A. 2003-A, York Co., and 22,650 ft. A. 2842-2588, Northampton Co., from Souder Constr. Co., 349 Woolworth Bldg., Lancaster, $108,179 and $163,967 respectively; 15,600 ft. R. 214, Sect. 1, Clarion Co., from Russell Bros., Route 5, Youngstown, O., $105,394; 8,203 ft. A. 4009, Westmoreland Co., from J. F. Patterson-Donora Constr. Co., Donora, $72,321; 11,310 ft. R. 75, A. 4040, Butler Co., from Indiana Constr. Co., Indiana, $85,049; 32,736 ft. R. 226-285, A. 3795-3796-4197, Lehigh and Berks Counties, from Johnson Drake & Piper, Inc., 834 1st Natl. Soo Line Bldg., Minneapolis, Minn., $242,381; 52,751 ft. R. 41, A. 3253, Adams and Cumberland Counties, from H. W. Horst Co., Rock Island, Ill., $433,877; and 21,872 ft. R. 337, A. 3700-3015, Indiana Co., from F. D. Ross, 74 High St., Bradford, $159,353. Noted May 13.

Maryland—State Rds. Comn., Baltimore, May 18, concrete paving 1 mi. Contr. F-92, Frederick Co., from M. J. Grove Lime Co., Lime Kiln, $24,921, 1 mi. Contr. B-76, Baltimore Co., from P. Reddington & Sons, 2 East Lexington St., Baltimore, $26,015, 2.5 mi. Contr. O-66, Prince Georges Co., from Christhilf & Ensey Co., 1625 Ridgely St., Baltimore, $70,104, and 1.5 mi. Contr. Co-39, Caroline Co., from P. D. Phillips & Bro., Salisbury, $27,829; macadam resurfacing 1.6 mi. Contr. H-48, and 0.91 mi. Contr. H-38, Harford Co., from T. B. Gatch & Sons, Raspeburg, Baltimore, $21,092 and $17,102 respectively; also graveling 2 mi., Contr. SM-22, St. Marys Co., from E. R. Jarboe, Mechanicsville, $13,613. Noted May 6.

Md., Baltimore — Bd. Awards, concrete paving footways listed in Footway Contr. 120, from Arundel Contg. Co., Knickerbocker Bldg., $31,836; and sheet asphalt paving 7,400 sq.yd. Contr. 337 from Amer. Paving Co., Montebello Ave., $31,834. Noted May 20.

Md., Baltimore — Comrs. Baltimore Co., concrete paving 1.21 mi. Group 8, from H. T. Campbell & Sons Co., Towson, $41,184. Noted May 20.

O., Akron—W. F. Peters, dir. Pub. Serv., grading, curbing, walks and vitr. brick paving 13,260 sq.yd. Inman St., from T. E. McShaffrey Constr. Co., 173 South Forge St., $79,001. Noted Apr. 29.

Mich., Grand Haven — Bd. Rd. Comrs. Ottawa Co., grading, 6 in. concrete surfacing, etc. 14,667 sq.yd. 3rd Ave. south of Muskegon-Ottawa Co. line, from J. R. Edelman, 498 6th St., Muskegon Heights, $31,750. Engrs. est. $37,000. Noted May 13.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., May 15, sheet asphalt resurfacing, etc., 8,573 sq.yd. 2nd Ave., from White Constr. Co., 68 Wisconsin St., $17,529; and asphaltic concrete paving, etc., 8,566 sq.yd. 35th St., from Badger Constr. Co., 97 Wisconsin St., $41,394. Noted May 13.

Ia., Ottumwa—City, May 10, paving 20 blocks various streets, from C. F. Lytle, 504 Nebraska St., Sioux City, 6 in. rein.-con., gravel at $2.05 per sq.yd., and 6 in. rein.-con., limestone at $1.95 per sq.yd.

Idaho — June 5, by Commissioner Pub. Wks., at office Lost River Highway Dist., G. L. Ambrose, atty., Mackay, **(F.A.P. means Federal Aid Project)**, grading, etc. 32,976 cu.yd. F.A.P. 118-B, Custer and Butte Counties; and 20,584 cu.yd. F.A.P. 7-B, Custer Co. A. N. Ashline, Shoshone, dist. engr.

Idaho — June 5, by State Comrs. Pub. Wks., at office Comrs. Franklin Co., Preston, grading, rock or gravel surfacing, etc. 8,411 cu.yd. Federal Aid Project 98. P. E. Wilson, Sonnenkalb, dist. engr.

Tex., Decatur — Wise Co., grading and bridging 7.765 mi. Highway 39, State Aid Project 667, from Tibbets Constr. Co., Joseph Bldg., Ft. Worth, $45,830. Engrs. est. $56,000. Noted Apr. 29.

Tex., Henderson — Rusk Co., grading, bridging, etc., 4.87 mi. Highway 26-A, State Aid Project 653, 26 ft., from Cook & Arrington, Crockett, $29,346. Engrs. est. $30,000. Noted Apr. 15.

Nevada—State Hy. Dept., Carson City, May 12, grading and surfacing 15.15 mi. road from point 7 mi. north of county line to point 5 mi. south of Connors Pass, White Pine Co., from W. Hoops, McGill, $41,131, and 22.48 mi. road from Dutch Johns to point 7 mi. north of county line, Lincoln and White Pine Counties, from Dodge Bros., Inc., Fallon, $60,540; surfacing 6 mi. road from point 6 mi. west of Robinsons Summit to Robinsons Summit, White Pine Co., from J. Ross, Yerington, $22,181, and 5.4 mi. road from west of county line to Virginia City, Storey Co., from J. N. Tedford, Fallon, $19,689. Noted May 6.

California—State Hy. Comn., Sacramento, grading, crushed stone or gravel surfacing 8.5 mi. road between point 2 mi. east of Sportsmans Hall and Riverton, El Dorado Co., from Irey & Holden, Lodi, $51,488. Engrs. est. $51,488. Noted Apr. 29.

Calif., Corona — Grading, curbing, walks and oil macadam paving, etc. 9th St., Belle Ave., etc., from A. T. Ingalls, 1604 West 39th St., Los Angeles, $43,050. Noted May 6.

Calif., Los Angeles—Bd. Pub. Wks., May 10, from W. Liddington, 430 East 60th St., improving Hoover St., 55 lin.ft. curbing at $0.60 per lin.ft., 329 sq.ft. guttering $0.25, 195 sq.ft. sidewalk $0.15, 81,821 sq.ft. 7 in. concrete paving $0.195, etc., total $22,266, engrs. est. $24,257; from Tryant & Brain, 201-2 Tojo Bldg., improving Ventura Blvd., 11,415 sq.ft. sidewalk $0.125, 92,252 sq.ft. 6 in. paving $0.19, etc., total $24,172, engrs. est. $25,946. Noted Apr. 15.

Contracts Awarded

Vermont — Dept. Highways, Montpelier, bituminous macadam paving, etc., 2 mi. Federal Aid Project 82-A in Highgate, to L. Longhi & Son, Torrington, Conn., $73,981, 2.56 mi. Federal Aid Project 72-A in Shelburne, to Frissel & Snyder, $109,689, 1.04 mi. Federal Aid Project 57-D in Guilford-Brattleboro, to Long Cross & Burnham, Greenfield, Mass., $38,356, 3.03 mi. Federal Aid Project 62-B in New Haven, also 3 span and concrete steel bridge and approaches on Federal Aid Project 55-D in Barton, to D. W. Overrocker, Brattleboro, $88,999 and $43,644 respec-

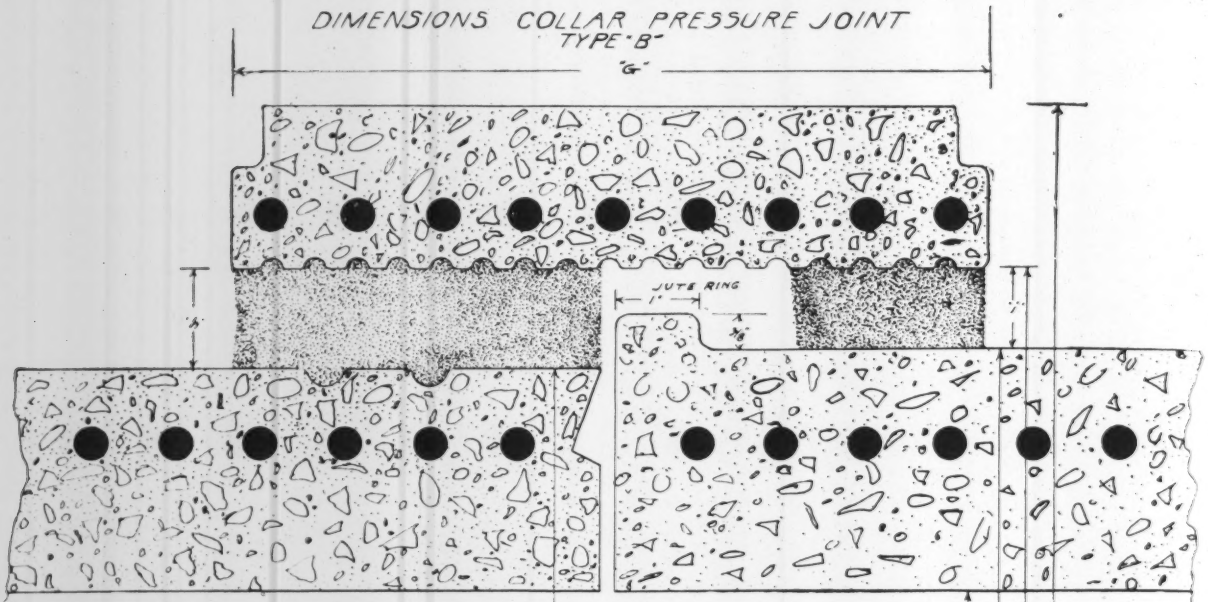

TABLE 1

A internal diameter	B Internal diameter large end	C Internal diameter small end	D Internal diameter collar	E External diameter collar min.	F External diameter collar max.	G Length of collar	H maximum annulus	I minimum annulus	Cu. feet mortar in annulus ½"	Cu. feet mortar in annulus 1"	Pounds jute in annulus	Estimated No. joints I man can make per 10 hour day	Estimated No. joints 2 men can make per 10 hour day
18"	22"	21½"	24"	28¾"	29"	8"	1¼"	1"	.2	.08	1½	12	10
24"	29"	28⅝"	31"	35⅝"	36"	8"	1¼"	1"	.27	.11	1¾	11	9
30"	36"	35⅝"	38"	42	42⅝"	9"	1¼"	1"	.42	.2	2½	9	8
36"	42⅝"	42"	44½"	48¾"	49⅝"	9"	1⅛"	⅞"	.44	.2	3	8	7
42"	49½"	48⅝"	51"	55⅝"	56"	9"	1⅛"	⅞"	.51	.21	3½	7	6
48"	56"	55⅝"	57½"	62½"	62½"	10"	1⅛	⅞"	.58	.23	3½	6	5
54"	62½"	62½"	64⅝"	70½"	70½"	10"	1¼"	1"	.72	.29	4	6	5
60	69½"	69⅝"	72"	78	78½"	10"	1⅜"	1⅛"	.89	.36	5	6	5

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Streets and Roads (Continued)

tively; concrete paving 1.68 mi. Federal Aid Project 91 in Hartford, to Lane Constr. Co., 37 Colony St., Meriden, Conn., $65,373; steel bridge with concrete abutments, approach spans and road approaches on Federal Aid Project 59-A in Brattleboro, to G. H. Stebbins, North Adams, Mass., $125,833, and 1 steel superstructure complete incl. removing old bridge, on Federal Aid Project 88-A in Morristown, to Byron, Foreman & Riggs, Troy, N. Y., $13,600. Grand total $559,475. Noted May 6.

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 3,340 ft. highway in Sharon, to C. E. Horne, Millbury, $21,900, and 1,900 ft. in Holbrook, to Powers Bros., 161 Montello St., Brockton, $13,131; also rein.-con. paving 18,498 ft. in Somerset and Swansea, to Callan Constr. Co., 208 Franklin St., Bristol, R. I., $276,792. Grand total $311,823. Noted May 13.

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 5,281 ft. highway in Rayham, to F. L. McNeil, Winthrop St., North Dighton, $30,718, 3,300 ft. in Grafton, to T. Toomey, 60 Lake St., Webster, $14,450, and 18,548 ft. in Hingham and Weymouth, to Lane Constr. Co., 67 Colony St., Meriden, Conn., $252,787; also graveling 1,950 ft. in Medway, to A. D. Pesquale, Milford, $6,762. Grand total $304,717. Noted May 20.

Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, bituminous macadam paving West Roxbury Parkway in Boston and Brookline, to T. J. McCue, North Beacon St., Watertown, $72,428. Noted May 20.

Mass., Boston — Sheet asphalt paving Arlington St., etc., to J. A. Singarella, 110 High St., $51,776. Noted May 13.

Conn., New Haven—E. S. Nettleton, city engr., asphalt on concrete paving Edgewood Ave. from West River to Alden Ave., to C. W. Blakeslee & Sons, Waverly St., $37,280; and bituminous macadam paving Central Ave. from Chapel St., Fountain St., to J. F. Daly, New Haven, $29,160. Noted May 20.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, asphalt resurfacing Chester, Clayer and other streets to Cranford Co., 9th St., $124,688; asphalt repaving roadway Court St., to Brooklyn Alcatraz Paving Co., Hamilton Ave., $9,483. Noted May 13.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, to F. Mandato, laying sidewalks on 7th Ave., $2,280; to P. Persicano, 489 Lenox Rd., regrading, sidewalks on 67th St., $1,710; to Castle Bros., Johnson Pl., grading, curbing and flagging Bath Ave. $3,923, and East 37th St. $3,737; to Grimm Contg. Co., 170 McKinley St., grading Miller Ave. $4,537, to McHale Contg. Co., 1250 Jefferson Ave., 15th Ave. $5,018, to G. M. Mandato, 129 29th St., East 27th St. $7,316; to Sicilian Asphalt Paving Co., Paidge Ave., grading and sheet asphalt paving Bergen St. $20,811, to Borough Asphalt Co., 1301 Metropolitan Ave., East 27th St. $14,116, Livonia Ave. $5,712, Avenue R $4,339, West 5th St. $6,265, Willoughby Ave. $4,332, 12th Ave. $7,624, 21st Ave. $3,003, 70th St. $8,637, also regulating curb on Montgomery St. $7,223, 47th St. $7,531, and 5th St. $6,791; to Uvalde Asphalt Paving Co., 1 Bway., New York City, grading and asphalt paving Decatur St. $27,135, and Hooper St. $9,654, to Brooklyn Alcatraz Asphalt Co., Hamilton Ave., Avenue M $14,794, 7th Ave. $11,237, and 67th St. $6,365, and to B. Turecamo, 8706 16th Ave., 71st St. $13,930. Grand total $208,020. Noted May 6.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, grading, curbing and flagging Forbell and Pennsylvania Aves., to Grimm Contg. Co., 170 McKinley St. $1,746 and $4,564 respectively, Minna St. to A. M. Zapponi, 113 32nd St. $4,789, and East 7th St., to Castle Bros., Johnson Pl., $10,381; granite paving Eagle St. and Greenpoint Ave., to F. J. Gallagher, 490 Park Pl., $14,164 and $20,882 respectively; asphalt paving East 7th St. and Minna St., to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., $15,798 and $6,242 respectively, Fulton St., to Highway Impvt. & Repair Co., 50 Church St., New York City, $30,547, Colonial Rd. and 50th St., to B. Turecamo Contg. Co., 8706 16th Ave., $6,610 and $5,006 respectively; grading and asphalt repaving Eagle and Moultrie Sts., to Borough Asphalt Co., 1301 Metropolitan Ave. $5,534 and $8,087 respectively, Georgia and Pennsylvania Aves., to Uvalde Asphalt Paving Co., 1 Bway., New York City, $8,509 and $10,307 respectively. Grand total $153,166. Noted May 20.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and repaving Betts Ave. (58th St.), to Uvalde Asphalt Paving Co., Inc., 1 Bway., New York City, $51,355; grading, curbing and sidewalks on Honeywell St., etc., and grading and sheet asphalt paving 8th Ave., etc., to Welch Bros., 14 Queens St., $4,745 and $22,091 respectively; sheet asphalt repaving Astoria Ave., to W. P. McDonald Constr. Co., Lawrence St., Flushing, $23,921, and 130th St., to Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $22,830. Grand total $124,942. Noted May 13.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to C. D. Beckwith, Inc., 2875 Bway., sheet asphalt paving East 174th St. $84,968, Commonwealth Ave. $35,970, and bituminous concrete paving East 180th St. $22,733; to Murray Home Corp., 412 Sound View Ave., grading, etc., Bolton Ave. $544, to I. F. Cavaluzzo, 1192 Sheridan Ave., Ellsworth Ave. $6,835, and to Carroll & Rice, 204 East 45th St., Spofford Ave. $4,717; to F. Gabrielle, 2750 Creston Ave., sewer, etc., in Yates Ave. $3,627, and to Fiorello & Koch, 1895 Belmont Ave., in Vouck Ave. $3,523. Grand total $162,917. Noted May 20.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing, flagging and stone filled asphalt paving Riverside Dr., to Remo Realty Co., 645 East Tremont Ave., $124,173. Noted May 13.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, grading and paving Arthur Ave. from Richmond Ave. to Old Town Rd., to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $29,639. Noted May 20.

N. J., Belvidere—Warren Co., concrete paving 4.25 mi. Phillipsburg-Belvidere Rd., to M. Staub, Pitman, $271,380. Noted Apr. 29.

Md., Baltimore — Comrs. Baltimore Co., concrete paving 2.9 mi. Group 7, to H. T. Campbell & Sons Co., Towson, $82,387. Noted May 20.

Md., Baltimore — Bd. Awards, grading, curbing and sheet asphalt paving 5,665 sq.yd. Contr. 336, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $28,896; and concrete footways as listed in Footway Contr. 93, to P. Averza, 104 North Highland Ave. $41,031. Noted May 20.

Va., Richmond — Director Pub. Wks., curbing, guttering grading, concrete paving, etc., 15,000 sq.yd. Hull St. and North Blvd., to Maguire & Rolfe, 1009 Brook Ave., $40,369. Engrs. est. $75,000.

Mississippi — Bd. Supervs. Holmes Co. (Lexington) and Madison Co. (Canton) at office Chancery Clerk, Canton, grading, bridging, graveling, etc., 5,991 cu.yd. Federal Aid Project 72-A, to J. A. and H. E. Pigford, Meridian, $96,655. Noted Apr. 29.

Miss., Corinth — Alcorn Co., grading Corinth-Ashland Highway, to Dyess Constr. Co., Waynesboro, $42,436; reinforcing, to Dudley Bar Co., Jefferson Co. Bank Bldg., Birmingham, Ala., $1,495; culvert pipe to W. S. Dickey Clay Mfg. Co., Birmingham, Ala., $2,916 and 850 bbl. portland cement, to J. D. Biggers, Hdw. Co., Corinth, $2,431. Grand total $49,278. Noted Apr. 29.

Miss., Ocean Springs — Mayor and Bd. Aldermen, grading, sewers and 7 in. concrete paving various streets, to Southern States Constr. Co., Biloxi, $53,000.

Tenn., Jackson — City Comrs., concrete paving 20,000 sq.yd. various streets, to T. L. Hilliard Constr. Co., Jackson, $1.98 per sq.yd. Noted Apr. 15.

Tenn., Nashville—City will oil and gravel surface Parthenon Ave, from 28th Ave. to Mason St., Mason Ave. from Parthenon to Long Aves., 28th Ave. N. from west end to Parthenon Aves., 27th Ave. N. from west end to Poston Aves., Poston Ave. from 27th to Euclid Aves., 30th Ave. from Poston to West End Aves., and Tutweiler Ave. from 2nd to 4th Aves. Work will be done by day labor. To exceed $25,000. H. E. Howse, mayor.

Kentucky—State Hy. Dept., Frankfort, **(F. A. P. means Federal Aid Project and S. A. P. means State Aid Project)**, grading 6.386 mi. Glasgow-Burkesville Rd., F. A. P. 116-B, Barren Co., to S. D. Pace & Co., Burkesville, $62,401, 7.401 mi. Glasgow-Scottsville Rd., F. A. P. 28-C, Barren Co., to Alexander Bros., Cadiz, $129,987, 12.906 mi. Bardwell-Paducah Rd., S. A. P. 9½-A, Carlisle Co., and 4.744 mi. Owensboro-Stanley Rd., S. A. P. 8-F, Daviess Co., to Carter, Carter & Braden, Clay, $142,807 and $17,229 respectively, 12.787 mi. Hopkinsville-Guthrie Rd., F. A. P. 150-A and B, Christian and Todd Counties, to Eli & Marye, Dawson Springs, $85,878, 3.159 mi. Owensboro-Beech Grove Rd., S. A. P. 76-A, Daviess Co., to Taylor-Petri Co., Lewisport, $34,865, and 8.082 mi. Mt. Vernon-Stanford Rd., F. A. P. 148-A, Rockcastle Co., to Moynahon & Turner, Nicholasville, $88,349; rein.-con. surfacing 9.489 mi. Richmond-Mt. Vernon Rd., F. A. P. 88, Madison and Rockcastle Counties, to L. des Cognets Co., Lexington, $267,230, and 26.175 mi. Pineville-Harlan Rd., F. A. P. 151-A, B and C, Bell and Harlan Counties, to Foulkes Contrg. Co., 705½ Ohio St., Terre Haute, Ind., $720,714; grading and rein.-con. paving 3.126 mi. Owensboro-Stanley Rd., S. A. P. 8-E, Daviess Co., to N. B. Stone & Co., Madisonville, $87,022; also 16 in. bituminous macadam surfacing 4.735 mi. Elizabethtown-Hodgenville Rd., F. A. P. 118-A, Hardin and Larue Counties, to G. M. Eady Co., Brook and Lee Sts., Louisville, $73,954. Grand total $1,710,436. Noted Apr. 22.

O., St. Clairsville—Comrs. Belmont Co., concrete paving, etc., 2 mi. Martins Ferry-Mt. Pleasant Pike, to McClain Constr. Co., Bellaire, $80,184; and Egypt-North Rd., to F. Amoine, Bridgeport, $46,696.

Ill., Decatur—Bd. Local Impvts., E. E. Elder, pres., grading, curbing and asphalt paving 5 blocks East North St., 50 ft., to Birt & Driscoll; Decatur, $33,208. Engrs. est. $37,022. Noted May 20.

Ill., East St. Louis — To Keeley Bros. Constr. Co., 2100 State St., 8 in. concrete paving 2,854 sq.yd. 37th St., $12,889 engrs. est. $14,600, 6,080 sq.yd. 33rd St., $33,504 engrs. est. $36,000, and 4,394 sq.yd. 46th St., $18,660 engrs. est. $20,300; to Moore Bros. Constr. Co., 925 North 8th St., 19,060 sq.yd. Winstanley Ave. and 11th St., $79,270 engrs. est. $87,900. Grand total $144,323. Noted Apr. 1.

Ill., Kewanee—Bd. Local Impvts., grading, curbing and rein.-con. paving 12 blocks Pine, Helmer, George, Grove and Williams Sts., 18 to 30 ft., and 9 blocks 1st., Lexington and Park Sts., 23 to 40 ft., to Central Eng. Co., Moline, $45,516 and $32,639 respectively, engrs. ests. $60,000 and $46,523 respectively. Noted May 20.

Ill., Lamont — Bd. Local Impvts., rein.-con. paving 21,100 sq.yd. streets in Assessments 9 and 10, to Jaicks Bros., 107 North Clark St., Chicago, $102,000.

Wis., Milwaukee—Dept. Pub. Wks., asphaltic concrete paving, etc., Center St., to Badger Constr. Co., 97 Wisconsin Ave., $39,316.

Ia., Grundy Center—Grundy Co. improving Federal Aid Project 266, 58,247 cu.yd grading, and 50,940 sta.yd. overhaul, to Shirley & Caldwell, Omaha, Neb., $19,165; drainage work, to P. Jensen, Waterloo, $1,091; 1 bridge, to E. Ove, Dike, $8,595; rein.-con. culverts, etc., to Waugh & Trackman, Clarksville, $3,070; steel culverts, to Independent Corrugated Culvert Co., Independence, $3,000. Grand total $34,921.

Ia., Iowa City—Johnson Co., paving 142,787 sq.yd. Primary Road 7, to Wright Constr. Co., 211 Flynn Bldg., Des Moines, at $0.219 per sq.yd.; grading, etc., 93,491 cu.yd. Iowa City-Solon Rd., to E. W. Kolterman, Omaha, Neb., at $0.269 per cu.yd. Noted May 13.

Ia., Storm Lake—Buena Vista Co., improving Primary and Secondary Projects S-82 to S-89 to Sampson Bros., Algona, $29,700. Noted May 13.

Minn., Marshall—Comrs. Lyon Co., grading, etc., 116,000 cu.yd. various roads, to D. Ryan, Marshall, $28,863.

South Dakota—State Hy. Comn., Pierre, improving 12.21 mi. Federal Aid Project 194-B, Miller Co., 1,181 cu.yd. rock and 90,622 cu.yd. earth excav., 26,697 sta.yd. overhaul, 38,375 lb. reinforcing, etc., to Tobin & Maloney, Madison, $37,980.

North Dakota—State Hy. Dept., Court House, Mandan, grading, etc., 14 mi. Federal Aid Project 305, Morton Co., to W. L. Chapin, McIntosh, S. D., $47,669. Noted Apr. 15.

Tex., Abilene—Taylor Co., grading and bridging 15,478 cu.yd. Highway 1, Federal Aid Project 468, to Sullivan & Davis, Granger, $44,145. Engrs. est. $62,000. Noted Apr. 29.

Tex., Boston — S. J. Robinson, judge Bowie Co., grading, bridging and gravel surfacing 10.75 mi. State Highway 98, State Aid Project 644, 26 ft., to Fooshee & Gafford, Paris, $35,972. Engrs. est. $43,000.

Tex., Cameron — Milam Co., clearing, grubbing and grading 15.067 mi. Highway 43, Federal Aid Project 494-A, 64,073 cu.yd. unclassified excav. and 142,693 cu.yd. borrow, to D. H. Buchanan, Temple, $43,827; bridges, etc. on same road, to Davis Pace Co., 1306½ Young St., Dallas, $71,000.

Washington—State Hy. Dept., Olympia, **(S. R. means State Road)**, grading and graveling, etc. 9,200 cu.yd. S.R. 14, Mason Co., to James Allen Eng. Co., Chambers Bldg., Olympia, $81,453, 6,300 cu.yd. S.R. 9, Clallam Co., to Edland & Burger, 6002 Puget Sound Ave., Tacoma $8,429, and 9,400 cu.yd. S.R. 12, Cowlitz Co., to Olympia Constr. Co., 1326 Northlake Ave., Seattle $19,313; grading, etc. 2.36 mi. S.R. 3, Yakima Co., to T. M. Morgan, 401 Realty Bldg., Spokane $55,333, and 6.08 mi. S.R. 1, King Co., to J. E. Edwards, 1423 South Adams St., Spokane $50,409; constructing timber overhead crossing on S.R. 9, to Olympia Pile Driving Co., Port Townsend,

Streets and Roads (Continued)

$3,582; also 3 bridges over Indian Creek, on S.R. 9, to E. Anderson & Sons, Port Angeles, $23,867. Grand total $242,386. Noted Apr. 29.

Wash., Seattle—Bd. Pub. Wks., grading, etc., 82,000 cu.yd. Lakeside Ave. S. et al. to Goetz & Brennan, Seaboard Bldg., $78,-604. Noted May 20.

Calif., Redwood City — San Mateo Co., Durite asphaltic concrete paving Hillside Blvd., to Hanrahan Co., Standard Oil Bldg., San Francisco, $31,160.

Calif., San Rafael—Marin Co., improving Tiburon Blvd., to J. Currie, 1100 Peninsula Ave., Burlingame, surfacing $0.249 per yd. and culverts (county furnishes) $38,-093. Noted May 6.

Calif., Santa Cruz—Supervs. Santa Cruz Co., will pave with oil macadam, etc., portions East Corralitos, Holohan, Roach Rds. Work will be done by force account. Former bids rejected. L. Bowman, Santa Cruz, co. surv. Noted May 13.

Buildings—Commercial

Proposed Work

Mass., Cambridge (Boston P. O.) — BUSINESS — F. W. McAleer & Co., 1374 Massachusetts Ave., plans brick business block. $150,000 or more. Engineer and architect not selected.

Mass., Everett (Boston P. O.)—SOCIETY Fraternal Building Assn., E. B. Forsland, 28 Reynolds Ave., having plans prepared by O. A. Helrich, 138 Bucknam St., 2 story and basement, brick, Broadway and Hosmer St. $150,000.

Mass., Framingham—HOSPITAL—Town, Dept. Pub. Buildings, raising $350,000 funds, new hospital. Engineer and architect not selected.

Mass., Kingston—COMMUNITY—Town, Dept. Pub. Buildings having sketches made 2 story and basement, 100 x 105 ft., rein.-con. and brick community house. $150,000. Private plans.

Mass., Lynn—APARTMENT—M. Frisch, 12 Chase St., having plans prepared by G. A. Cornet, 10 Central Ave., 4 story and basement, brick, Hanover St. $250,000.

N. Y., Brooklyn—APARTMENT—Owner, c/o E. M. Adelsohn, engr. and archt., 350 Stone Ave., having plans prepared brick, steel and stone, plain foundation, Nostrand and Foster Aves. $250,000.

N. Y., New York—APARTMENT HOTEL—J. G. Siegel, c/o Sugarman & Berger, engrs. and archts., 345 Madison Ave., having plans prepared 27 story, brick, steel and stone, plain foundation. $1,145,000.

N. Y., New York — APARTMENT — B. Winter, 250 Park Ave., plans 30 story, 75 x 125 ft., brick, steel and stone, plain foundation, 52nd St. and 5th Ave. Springsteen & Goldhammer, 32 Union Sq., engrs. and archts.

N. Y., New York—THEATRE and OFFICE—A. Hammerstein, 1650 Bway., having sketches made by H. J. Krapp, engr. and archt., 1 West 47th St., 15 story, brick, steel and stone, plain foundation, 213 West 53rd St. $1,500,000.

N. Y., Ossining — ADMINISTRATION, etc.—State Building Comn., Albany, having plans prepared by S. W. Jones, Capitol, Albany, administration building and community center, etc., at Sing Sing Prison, here. $2,500,000.

N. Y., Port Chester—BANK—First Natl. Bank & Trust Co. soon takes bids brick, steel and stone, plain foundation, Main St. $200,000. Mowbray & Uffinger, 221 West 57th St., New York City, engrs. and archts.

N. Y., Schenectady — Y. M. C. A. having plans prepared by Helmle & Corbett, 130 West 42nd St., New York City brick, steel and stone, plain foundation. $600,000. G. Aus, 244 Madison Ave., New York City, engr.

N. J., Atlantic City — HOTEL — F. J. Friez having plans prepared by W. M. Stacy, 1524 Chestnut St., Phila., Pa., rein.-con., brick and steel, Belfort Hotel, 106 Tennessee Ave. $160,000.

N. J., Bayonne — HOSPITAL and NURSES HOME—Bayonne Hospital, East 30th St., having preliminary plans prepared by Crow, Lewis & Wick, engrs. and archts., 200 5th Ave., New York City, 5 story hospital, $500,000, and 4 story nurses home, $150,000, both brick, steel and stone, plain foundations.

N. J., Newark — HOSPITAL — Presbyterian Hospital, South 9th St., plans 6 story, brick steel and stone, plain foundation, South 9th St. $450,000. Engineer and architect not selected.

N. J., Newark — OFFICE and LOFT — Griffith Piano Co., 605 Broad St., having plans prepared by G. E. Jones, engr. and archt., 9 Clinton St., 12 story, brick, steel and stone, plain foundation, 605 Broad St. $850,000.

N. J., Perth Amboy — BANK — Perth Amboy Trust Co., I. Alpern, pres., plans 8 story, 50 x 100 ft., bank, 133-35 Smith St. $600,000. Engineer and architect not selected.

Pa., Pittsburgh — HOME, etc. — Voted $2,500,000 bonds, city home and hospital; $600,000 bonds, Police and Fire Dept. buildings; $250,000 bonds, improving and extending tuberculosis hospital Leech Farm, etc.

Pa., Tyrone—STORE—A. W. Templeton, 863 Lincoln Ave., plans 4 story and basement, 150 x 150 ft., brick, concrete and steel, Logan Ave. $175,000. Engineer and architect not selected.

Md., Baltimore—THEATRE—Stanley Co. of North America, 1916 Race St., Phila., Pa., soon takes bids 1 story and basement, (80 ft. high), 100 x 300 ft., rein.-con., brick and steel, plain foundation, Howard and Franklin Sts., here. $1,500,000. Hoffman-Henon Co., Finance Bldg., Phila., Pa., archts.

N. C., Charlotte—OFFICE—V. P. Loftis plans 10 story and basement office building.

N. C., Greensboro—OFFICE—Dixie Fire Insurance Co. plans rebuilding "Dixie Building," recently destroyed by fire. $200,-000. H. R. Bush, pres.

Miss., Gulfport—HOTEL—E. Milgrim & L. E. Duetsch, Gulfport, and Gary, Ind., purchased site and making preliminary plans 6 story, rein.-con., brick and stone, 26th Ave. and 14th St. $600,000.

Miss., Pass Christian—HOTEL—M. Eiseman et al, Union Indemnity Bldg., New Orleans, La., plan hotel. $1,500,000.

La., Lafayette — COURTHOUSE — Lafayette Parish takes bids about July 7, 3 story, rein.-con., brick and stone courthouse. $300,000. W. T. Nolan, Canal-Commercial Bldg., archt. Noted Mar. 4.

O., Ashtabula—THEATRE—M. G. Newberger having preliminary plans prepared by McGarry & McGarry, 4614 Prospect Ave., Cleveland, 1 story and basement, brick, steel and concrete theatre. $150,000.

O., Cleveland—COMMERCIAL and HOTEL—Paul Bros., c/o G. Paul, Fidelity Mortgage Bldg., having plans prepared by E. McGeorge, 3030 Euclid Ave., 3 story (ultimately 6 story), 78 x 198 ft., brick, steel and concrete, East 105th St. and Carnegie Ave. $350,000.

O., Cleveland — COMMERCIAL and LODGE—The On Leong Tong Chinese Merchants Assn., T. Chan Poy, secy., plans 3 or 4 story, brick, steel and concrete, Oregon Ave. $250,000. Engineer and architect not selected.

Ind., Indianapolis — APARTMENT STORE—Drake Realty Co., 4451 Central Ave., had plans prepared by Foster Eng. Co., 726 Knights of Pythias Bldg., 3 story and basement, rein.-con. and brick, North Alabama St. $155,000.

Ind., Indianapolis—THEATRE—W. H. Griffin, 30th and Illinois Sts., having preliminary plans prepared 3 story, 102 x 300 ft., 2,500 seating capacity, 30th and Illinois Sts. $500,000.

Ind., Terre Haute—HOTEL—Terre Haute Hotel Co., takes bids early in June, 10 story and basement hotel. $1,000,000. W. E. Russ, 3015 North Pennsylvania Ave., Indianapolis, archt. Noted Nov. 12.

Mich., Capac — HOSPITAL — Narcotic Educational Assn., H. P. Wilson, pres., 725 Hammond Bldg., Detroit, plans 2 or 3 story, 100 bed, rein.-con. and brick, plain foundation. $150,000. Engineer and architect not selected.

Mich., Detroit—CLUBHOUSE—Twentieth Century Club, I. Hurst, pres., Columbia and John R. Sts., having plans prepared by G. D. Mason Co., 508 Griswold St., 2 story and basement, 100 x 150 ft., rein.-con., brick and steel addition, plain foundation, Columbia and John R. Sts. $200,000.

Ill., Champaign — DORMITORY and CAFETERIA—F. B. Mead, 603 South 6th St., having preliminary plans prepared by Rowe, Dillard & Rowe, 127 North Dearborn St., Chicago, 5 story and basement, 40 x 175 ft., rein.-con., brick and stone, East Green St. $175,000.

Ill., Chicago — APARTMENT — Lowenberg & Lowenberg, archts., 111 West Monroe St., preparing plans and soon takes bids 12 story and basement, 140 x 148 x 196 ft., rein.-con., brick, steel, stone and terra cotta, Surf St. and Sheridan Rd., for I. M. Sevin & H. L. Solomon, 140 North Dearborn St. $2,500,000. Noted Sept. 17.

Ill., Chicago—APARTMENT—Koenigsberg & Wesfield, archts., 155 North Clark St., preparing plans and take bids in June or July, 6 story and basement, 62½ x 150 ft., rein.-con. and steel, 5441-43 Kenmore Ave., for S. Brin, c/o architect. $300,000.

Ill., Chicago—BANK—W. W. Ahlschlager, archt., 65 East Huron St., preparing plans and takes bids about July [illegible] story and basement, 150 x 150 ft., rein.-con., brick and steel, South Parkway and 47th St., for Bankers State Bank, South Parkway and 47th St. $400,000.

Ill., Elgin — OFFICE — Wolf, Schom, Harper & Treaux, archts., 431 North Michigan Ave., take bids about June 15, 10 story and basement, 61 x 125 ft., rein.-con., brick, steel and terra cotta, for Syndicate, c/o architects. $400,000.

Ill., Rock Island—CITY HALL—Defeated $200,000 bonds, city hall, 3rd Ave. and 16th St. Noted Apr. 8.

Wis., Milwaukee—STORE—H. P. Haushalter, 1448 Green Bay Ave., having plans prepared by Tharinger & Brueckner, 488 Cramer St., 2 story and basement, 77 x 150 ft., brick and steel, plain foundation, Green Bay Ave. $150,000.

Ia., Cedar Rapids—SHRINE—El Kalah Temple Shrine, c/o J. E. Blake, chn. building com., c/o City Rapids and City Railway, 212 South 2nd St., having preliminary plans prepared by R. F. Moore, Granby Bldg., 2 story, 85 ft. high and basement, 140 x 170 ft., rein.-con., brick, steel and stone or terra cotta, A Ave. and 6th St. $250,000.

Ia., Des Moines—OFFICE and WAREHOUSE—International Harvester Co., 606 South Michigan Ave., Chicago, Ill., having plans prepared by W. D. Price, engr., archt. and supt. constr., 606 South Michigan Ave., 5 story, 88 x 150 ft., rein.-con., plain foundation, here. $175,000.

Kan., Kansas City—Y. M. C. A., 431 North 15th St., having plans prepared by H. F. Almon, 1006 Orear-Leslie Bldg., Kansas City, Mo., 3 story and basement, 120 x 128 ft., rein.-con. and stone building. $200,000. H. A. Noble, 719 Pioneer Trust Bldg., Kansas City, Mo., structural engr. Noted Apr. 8.

Mo., Independence — COURT HOUSE — Jackson Co. plans election probably in June, $350,000 bonds, court house. W. Hoag, 102 Walsix Bldg., Kansas City, archt. Noted Mar. 4.

Mo., Kansas City — HOSPITAL — Children's Mercy Hospital, 121 Clinton Pl., had plans prepared by Hoit Price & Barnes, 800 Davidson Bldg., 3 story and basement, 38 x 140 ft., rein.-con., brick and terra cotta hospital and roof garden, Independence and Woodland Sts. $150,000.

Mo., Kansas City — HOTEL — Armour-Warwick Real Estate Co., 3619 Bway., Kansas City, having plans prepared by J. S. White, 3619 Bway., 12 story and basement, 140 x 180 ft., rein.-con., brick and terra cotta hotel. To exceed $150,000.

Mo., Louisiana—HOSPITAL—Otis Smith Hospital Assn., C. G. Buffum, pres., plans 3 story, rein.-con., brick and stone county hospital. $150,000.

Mo., St. Louis — APARTMENT — M. Homberg, c/o H. R. Weisel Co., Inc., International Life Bldg., plans 6 story and basement, 85 x 100 ft., rein.-con., brick, stone and terra cotta apartment. $400,000. Engineer and architect not selected.

Mo., St. Louis—ORPHANAGE—Jewish Orphans Home, 3117 Lafayette Ave., making preliminary plans rein.-con., brick and stone orphanage, incl. administration building and two cottages, Oakland Ave. near Skinker Blvd. $250,000.

Tex., Childress — HOTEL — F. R. Rhea, having plans prepared by W. C. Meader, 912 Don Waggoner Bldg., Ft. Worth, 4 story and basement, 88 x 112 ft., stone, rein.-con. and brick hotel. $150,000.

Tex., Pecos—OFFICE, etc.—Pecos Valley Southern Ry. Co., L. W. Anderson, vice pres. and genl. mgr., having plans prepared by J. R. Smith, 310 Blackburn Bldg., Amarillo, office and railway shops. $200,000.

Tex., Port Arthur — HOSPITAL — City plans 4 story, rein.-con. and brick addition to Mary Gates Hospital, plain foundation. $150,000. Address J. P. Logan, mayor.

Tex., San Antonio—APARTMENT—J. S. Van Hope, Los Angeles, Calif., plans 2 to 5 story and basement apartment, Bway. Ave. opposite Breckenridge Park. $300,000. Engineer and architect selected soon.

Tex., San Antonio — APARTMENT — J. S. Van Hope, c/o 321 North St. Marys St., having plans prepared by R. H. Cameron, 1116 City Natl. Bank Bldg., 10 story and basement, rein.-con., brick and steel, plain foundation, Bway. near Post Ave. $450,000.

Wash., Bellingham—THEATRE—R. C. Reamer, archt., Seattle, takes bids about June 30, 2 story, 92 x 200 ft., rein.-con., Champion and North Commercial Sts., here, for Metropolitan Development Co., Henry Bldg., Seattle. $250,000.

Ore., Astoria — HOSPITAL — Lutheran Synod having plans prepared by J. E. Wicks, Astoria, 3 story hospital. $175,000.

Calif., Hollywood—STORE and OFFICE—Interests headed by F. R. Strong, Marsh-Strong Bldg., Los Angeles, plans 6 story or more, 100 x 150 ft., Class "A" construction, Vine St. and Hollywood Blvd., here.

Buildings—Commercial (Continued)

Calif., Los Angeles—APARTMENT—L. A. Bryant, archt., 700 South La Brea Blvd., preparing plans 6 story and basement, fireproof, Rossmore Ave. To exceed $500,000. Owner's name withheld.

Calif., Los Angeles—APARTMENT—J. T. Payne & G. A. Bissell, associated archts., Western Mutual Life Bldg., preparing preliminary plans 3 story and basement, 125 x 150 ft., probably brick, Willoughby Ave. $150,000. Owner's name withheld.

Calif., Los Angeles — COMMERCIAL — Parmalee-Dohrmann Co., 436 South Bway., having plans prepared by Ashley & Evers, 58 Sutter St., San Francisco, 8 story and basement, 80 x 152 ft., rein.-con., 739-45 South Flower St. To exceed $150,000.

Calif., Los Angeles — HOSPITAL — Childrens Hospital Assn., c/o L. H. Gibbard, archt., Metropolitan Bldg., having preliminary plans prepared 3 and 4 story, rein.-con. hospital and nurses home, Vermont Ave. and Sunset Blvd. $500,000 or more.

Calif., Oakland—OFFICE—Great Western Power Co. of California, 530 Bush St., San Francisco, having plans prepared by Ashley & Evers, 58 Sutter St., San Francisco, 10 story, steel and rein.-con., 17th and Bway. Sts., here. $300,000 or more.

Calif., San Francisco—APARTMENT—A. H. Knoll, archt., 222 Kearny St., preparing plans 6 story and basement, concrete, Geary and 31st Aves. $150,000. Owner's name withheld.

Calif., San Francisco—AUTO SALES—E. C. Anthony, 1325 Van Ness Ave., plans 4 or more story auto sales building, Ellis and Van Ness Aves. $300,000 or more.

Calif., San Francisco — HOTEL and STORE—Rhine, Kiernan & O'Brien, Alexander Bldg., plans two 6 or more story and basement, rein.-con. and steel, one at South Bush St. near East Jones St. and other at North Bush St. near East Grant Ave. Each to exceed $150,000.

Calif., San Francisco—OFFICE—A. P. Giannini, et al, Bank of Italy Bldg., having plans prepared by H. A. Minton, Bank of Italy Bldg., 5 story, fireproof addition, Market and McAllister Sts. $250,000 or more.

Calif., San Jose—THEATRE and STORE—Kern & Hamburger, 110 Sutter St., San Francisco, purchased site and plans probably rein.-con., West Santa Clara St. To exceed $150,000. Engineer and architect not selected.

Calif., Santa Barbara—BANK and OFFICE—Interests represented by W. R. MyGatt, atty., San Marcos Bldg., plans fireproof, Estado and Figueroa Sts. To exceed $150,000.

Man., Winnipeg—HOSPITAL—Salvation Army, 317 Carlton St., soon takes bids 4 story, rein.con. and brick addition to Grace Hospital. $180,000. J. N. Semmens, 509 Great West Permanent Loan Bldg., archts.

Bids Desired

Mass., Boston — STORE and APARTMENT — See "Contracts Awarded."

Mass., Everett (br. Boston) — APARTMENT — See "Contracts Awarded."

Mass., Hyde Park (br. Boston) — THEATRE — S. A. Glazier, c/o T. M. Sargent, archt., 162 Tremont St., Boston, taking bids 1 and 2 story and basement, rein.-con., brick and granite addition, here. $150,000.

R. I., Woonsocket—SOCIETY—May 31, by L'Union St. Jean, c/o W. Fontaine, 285 Main St., brick and steel, Main St. $425,000.

Conn., New Britain—THEATRE—See "Contracts Awarded."

Conn., West Hartford (br. Hartford)—APARTMENT—See "Contracts Awarded."

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. J., Toms River—HALL of RECORDS, etc.—June 11, by Bd. Freeholders Ocean Co., Court House, addition to Hall of Records and new court room. P. P. Elkington, archt. and engr.; adv. E. N.-R. May 27.

Pa., Wilkinsburg—BANK—Wilkinsburg Bank, Wood St., and Mowbray & Uffinger, Inc., archts., 250 West 57th St., New York City, taking bids 3 story and basement, 42 x 133 ft., brick and steel addition. $200,000.

La., Shreveport—BUSINESS—June 2, by Jones, Roessle, Olschner & Weiner, archts., Shreveport, 6 story, 123 x 160 ft., rein.-con., brick and stone, Texas Ave. near Grand Ave., for Johnson Furniture Co.

Ill., Chicago — APARTMENT — E. J. Meles, archt., 105 West Monroe St., taking bids 9 story and basement, 100 x 100 ft., rein.-con., brick and terra cotta, Clarendon Ave. and Gordon Terrace, for Syndicate, c/o architect. $500,000. Noted Mar. 4.

Calif., Pasadena—EXCHANGE—Parkinson & Parkinson, archts., Title Insurance Bldg., Los Angeles, taking bids 3 story (ultimately 7 story) and basement, 100 x 150 ft., brick, steel and rein.-con., Green and Madison Sts., here, for Southern California Telephone Co., 740 South Olive St., Los Angeles.

Calif., San Francisco—APARTMENT—See "Contracts Awarded."

Calif., San Luis Obispo—HOSPITAL—June 14, by J. G. Driscoll, clk. San Luis Obispo Co., 2 story, Class "A" hospital. $150,000. W. Mooser, Nevada Bank Bldg., San Francisco, archt. Noted Mar. 25.

Bids Received

N. Y., Yonkers—BATH HOUSE—Westchester Co. Park Comrs., 72 Pondfield Rd., Bronxville, May 19, bath house at Tibbetts Brook Park, here, from Kenneth Mackay, 2 Hudson St., $218,410. Noted May 6.

Pa., Phila.—CITY HALL—G. H. Biles, dir. Pub. Wks., City Hall, May 19, general contract 15 story, basement and sub-basement, 100 x 171 ft., granite, limestone and brick annex, Juniper and Filbert Sts., from G. A. Fuller Co., Morris Bldg., spread foundations, $1,879,000, and caisson foundations $1,905,000; plumbing, from N. Cornell, 1404 North 18th St., $51,402; heating and mechanical equipment, from J. Borden & Bros., 637 North 19th St., $182,000; and electrical work, from E. McCandless Co., 9th and Chestnut Sts., $167,300. Noted May 6.

O., Columbus — CITY HALL — W. H. Duffy, dir. Pub. Serv., May 18, general contract 5 story and basement, Bedford stone, brick and terra cotta, Front St., from Bayajolu & Barr, 145 North High St., $1,198,000; plumbing, from Esswein Plumbing & Heating Co., Columbus, $35,300; heating, from Vehorn & Osterfeld, 407 South Main St., Dayton, $45,000; and electrical work, from Electric Power Equipment Co., 51 East Chestnut St., Columbus, $56,488.

Contracts Awarded

Mass., Boston — STORE and APARTMENT — Charles River Esplanade, Inc., c/o S. Stern, 294 Washington St., will build 5 story and basement, irregular, brick and stone, Revere St. $150,000. Work will be done by separate contracts. Silverman, Brown & Heenan, 51 Cornhill, archts.

Mass., Everett (br. Boston) — APARTMENT — Medford Real Estate, Inc., c/o Weinbaum & Wexler, archts., 73 Cornhill, Boston, will build 2 story and basement, brick, Francis St., by day labor. $700,000.

Mass., Quincy (Ind. br. Boston)—THEATRE and STORE—Universal Realty Co., c/o E. H. McEven, archt., 72 Woodbine Ave., Wollaston, 1 and 2 story and basement, brick, stone and steel, Beal and Chapman Sts., to Sears & Sons, 72 Woodbine St., Wollaston. Archts. est. $200,000.

R. I., Pawtucket — HOME — Lodge of Elks, Building Com., 3 story 82 x 150 ft., brick, steel and stone, Exchange and Montgomery Sts., to Mahoney & Tucker, 72 Weybosset St., Providence. Archts. est. $150,000. Noted Jan. 21.

R. I., Pawtucket — OFFICE — W. H. Walker Estate, c/o W. R. Walker & Son, archts., 49 Weybosset St., Providence, 3 story, brick and steel, Main St., to Interstate Constr. Co., 308 Tribune Bldg., Providence. Archts. est. $150,000.

Conn., Middletown—STORE and APARTMENT—P. J. Sturek, 460 Main St., 4 story, brick and steel, Main and Washington Sts., to D. O'Brien & Sons Co., River Rd. Archts. est. $150,000. Noted May 20.

Conn., New Britain—THEATRE—G. Ratner, 42 Church St., New Haven, will build 1 story, 68 x 105 ft., brick and steel, Broad and Washington Sts. Work will be done by separate contracts. $150,000. Private plans. Noted Apr. 22.

Conn., West Hartford (br. Hartford)—APARTMENT—J. Kanter & R. Sinclaire, 338 Asylum St., Hartford, will build 5 and 6 story, brick and steel, North Main and Brookside Aves. Work will be done by separate contracts. $1,250,000. Private plans.

N. Y., Long Island City—WAREHOUSE—R. H. Macy, Bway. and 34th St., New York City, 3 story, 145 x 200 ft., rein.-con., brick and steel, plain foundation, Manley St., here, to Barney-Ahlers Constr. Corp., 110 West 40th St., New York City. Archts. est. $500,000.

N. Y., New York — APARTMENT — Arthur Holding Corp., c/o Springsteen & Goldhammer, engrs. and archts., 32 Union Sq., will build 5 story, brick, steel and stone, plain foundation, Vermilyea Ave., by day labor. $175,000.

N. Y., New York—APARTMENT—Fred T. Ley & Co., Inc., 19 West 44th St., will build 3 story, brick, steel and stone, plain foundation, 5th Ave. and 18th St. Work will be done by separate contracts.

N. Y., New York—APARTMENT—Mebor Realty Co., c/o Berlinger & Kaufman, engrs. and archts., 66 5th Ave., will build 5 story, brick, steel and stone, plain foundation, 183rd St. and Grand Ave., by day labor. $200,000.

N. Y., New York—APARTMENT—Ruthmore Building Corp., c/o Springsteen & Goldhammer, engrs. and archts., 5 story, brick, steel and stone, plain foundation, Seaman Ave. and 207th St., by day labor. $175,000.

N. Y., New York — STORE and SHOWROOM — B. Winter, 250 Park Ave., 5 story, 25 x 125 ft., brick, steel and stone, plain foundation, 664 5th Ave., to J. C. Udall, 29 West 34th St.

N. J., Atlantic City—APARTMENT—N. Levan, 1329 Pacific Ave., 11 story and basement, 100 x 100 ft., rein.-con., brick and steel, plain foundation, Pacific Ave. between South Carolina and Tennessee Sts., to C. P. Tillon, 6 South Virginia St. Archts. est. $600,000.

N. J., East Orange—APARTMENT—Polakoff Constr. Co., c/o R. Botelli, engr. and archt., 207 Market St., Newark, will build brick, steel and stone, plain foundation, Prospect St., by day labor. $200,000.

Del., Wilmington — OFFICE and EXTRACT PLANT — Tannin Corp., 1 Pershing Sq., New York City, N. Y., will build 1 story, 75,000 sq.ft. floor space, brick, steel and rein.-con., plain foundation, Marine Terminal, here. $1,000,000. Work will be done by separate contracts under supervision of E. B. Carter, engr., 1 Pershing Sq., New York City.

Ga., Savannah — OFFICE and WAREHOUSE — Atlantic Coast Line R.R. Co., Wilmington, N. C., J. E. Willoughby, ch. engr., 5 story, brick and stone, East Broad and Liberty Sts., here, to Dwight P. Robinson, 125 East 46th St., New York City. Engrs. est. $800,000.

Fla., Miami — BANK and OFFICE — Model Land Co., J. W. Hoffman, vice-pres., City Bldg., St. Augustine, 12 story, brick, steel and stone, Southeast 1st St., to Turner Constr. Co., 244 Madison Ave., New York City, N. Y. Archts. est. $2,000,000. Noted Mar. 18.

Ohio — ARMORIES — Adjutant General, State House, Columbus, 2 armories, one 2 story, 50 x 100 ft., at Washington, to J. A. Huston & Co., Lancaster, approximately $45,000; and other 2 story, 100 x 200 ft., at Chillicothe, to Nolze & Norton, 30 Cypress Ave., Columbus, approximately $85,000, both brick and concrete. Noted Apr. 15.

Ill., Chicago — HOTEL — E. J. Melas, archt., 105 West Monroe St., masonry and concrete contract 14 story and basement, 100 x 150 ft. hotel, to A. Lindstrom, 77 West Washington St., and plumbing, to J. Schiller & Co., 1512 West Roosevelt Rd., for B. E. Cohen, et al. Archts. est. $1,500,000. Noted Apr. 15.

Ill., Chicago — HOTEL — Rissman & Hirschfeld, archts., 64 West Randolph St., general contract 14 story, 107½ x 200 ft., rein.-con., brick, stone and terra cotta, Walton Pl. near Michigan Ave., to A. Brundage, 110 South Dearborn St., for Davis Hotel Co., 831 Wilson Ave. Archts. est. $3,000,000. Noted Mar. 4.

Ill., Chicago — OFFICE and SALES — Gardener & Lindberg, archts., 140 South Dearborn St., general contract 3 story and basement, 85 x 110 ft., rein.-con. and brick, Washington Blvd. and Elizabeth St., to R. C. Wieboldt Co., 1534 West Van Buren St., for Creamery Package Co., 61 West Kinzie St. Archts. est. $150,000. Noted Apr. 22.

Ill., Peoria — CHEMICAL — Commercial Solvent Co., 601 Parkside Ave., 1 and 2 story, rein.-con. and brick, Durst St., to Stone & Webster Constr. & Eng. Co., 147 Milk St., Boston, Mass. Archts. est. $1,000,000.

Ill., Rockford — THEATRE, STORE and APARTMENT — W. C. Burnett, 2 Genesee St., 3 story and basement, 137 x 205 ft., rein.-con., brick, stone and terra cotta, Genesee and Clayton Sts., to J. J. Reading & Co., 10 North Clark St., Chicago. Archts. est. $1,000,000.

Ill., Urbana — ARMORY — University of Illinois, 2 story, 285 x 474 ft., rein.-con., brick and stone addition, on campus, to A. W. Stoolman, 212 East Armory St., Champaign. Archts. est. $425,000. Noted Mar. 25.

Calif., Los Angeles—APARTMENT—H. N. Dickerman, 620 Pacific Natl. Bank Bldg., will build 4 story and basement, 80 x 160 ft., rein.-con., West Moreland Pl., by day labor. $150,000.

Calif., Los Angeles—APARTMENT—B. Koyan, 401 North Breed St., and H. J. Zacks, 2913 Brooklyn Ave., will build 4 story and basement, brick, South Berendo St., by day labor. $150,000.

Calif., Los Angeles—STORE—Felchin, Shaw & Franklin, (archts. and contractors), Commercial Exch. Bldg., will build 6 story, 60 x 152 ft., rein.-con., Flower St. between

Buildings—Commercial (Continued)

7th and 8th Sts., for Meyer Siegel & Co., 617 South Bway. $300,000. Noted Feb. 11.

Calif., San Francisco—APARTMENT—A. Figone, 2631 Baker St., will build 5 story and basement, concrete, Baker and Union Sts., by day labor. $150,000. Private plans.

Ont., Toronto—OFFICE—Bell Telephone Co. of Canada, 76 Adelaide St. W., general contract 2 story top addition, rein.-con., brick and steel, to Witchall & Son, 156 St. Helens Ave. Archts. est. $150,000.

Sask., Saskatoon—OFFICE—Saskatoon Bldg. & Development Co., c/o F. R. MacMillan, general contract 4 story, 80 x 100 ft., brick, 2nd Ave. and 21st Ave., to A. W. Cassidy & Co., Saskatoon. Archts. est. $200,000.

Man., Winnipeg — HOSPITAL — F. R. Evans, superv. archt., 902 Confederation Life Bldg., general contract 3 story, basement and sub-basement 46 x 150 ft. and 46 x 205 ft., rein.-con., brick and stone, Sherbrooke and Wolseley Sts., to J. A. Tremblay, 55 Hargrave St., for Sisters of Misericorde, Sherbrooke and Wolseley Sts. Archts. est. $250,000. Noted Apr. 29.

Buildings—Industrial

Proposed Work

Mass., Cambridge (Boston P. O.) — POWER HOUSE — Middlesex Co. County Court House, A. Cutting, chn., plans power house. $175,000. Engineer and architect not selected.

Mass., Charleston (sta. Boston)—FACTORY—W. F. Schraff & Son Corp., 160 Washington St., having plans prepared by Lockwood, Greene & Co., 24 Federal St., Boston, brick addition, Sullivan Sq. $50,000.

Mass., Lynn — REPAIR and SERVICE GARAGE — M. Galaid, 540 Beach St., Revere, having sketches made by E. Earp, 333 Union St., 1 story, 85 x 220 ft., rein.-con. and brick, 234 Chestnut St. $70,000.

Mass., Milton (br. Boston)—REFRIGERATION PLANT—Granite City Ice Co., 550 Adams St., East Milton, plans refrigeration plant. To exceed $40,000. Engineer and architect not selected.

Mass., Somerville (Boston P. O.)—REPAIR and SERVICE GARAGE—Pilgrim Motor Co., Walnut St., having plans prepared by E. J. MacDonald, engr. and archt., 77 Summer St., Boston, 1 story, 120 x 165 ft., brick, New Northern Artery, Felsway East. $80,000.

N. Y., Lackawanna—CEMENT PLANT—Federal Portland Cement Co., 1082 Ellicott Sq. Bldg., Buffalo, takes bids in June, 1 to 4 story and basement rein.-con. and steel, Hamburg Rd. $2,000,000. Allis-Chalmers Co., Wallis St., Milwaukee, Wis., engrs.

N. Y., New York—PLANT—A. Kimball & Co., 307 West Bway., plans 8 story, rein.-con., brick and steel, plain foundation, West Bway. $200,000. Engineer and architect not selected.

N. J., East Burlington (mail Burlington) —FACTORY—U. S. Cast Iron Pipe & Fdry. Co., 71 Bway., New York City, having plans prepared 1 story, rein.-con., brick and steel, plain foundation, here. $65,000. Private plans.

Pa., Fox Chase (Phila., P. O.)—MANUFACTURING—Ballinger Co., archts., 12th and Chestnut Sts., Phila. soon lets contract, 1 and 2 story rein.-con. and brick manufacturing plant and boiler room, plain foundation, Rabin St. and State Rd., here, for J. J. Nesbitt, Inc., c/o architects.

Pa., Meadville — FACTORY — Hookless Fastener Co. soon lets contract, 2 story, 50 x 200 ft., and 3 story, 60 x 300 ft., brick and rein.-con. factory. Wilbur Watson & associates, 4614 Prospect Ave., Cleveland, O., engrs. and archts. Noted Apr. 29.

Neb., Omaha—GARAGE and SERVICE—J. Latenser & Sons, archts., 732 Peters Trust Bldg., rejected bids garage and service, 20th and Center Sts., for Metropolitan Utilities Dist., City Hall. Will readvertise. $275,000. Noted Nov. 12.

O., Cleveland — WAREHOUSE, etc. — Cleveland Stevedore Co., C. J. Murphy, secy. and treas., Perry Payne Bldg., having plans prepared by A. Richley, engr. and archt., 1006 Eddy Rd., 5 story, 100 x 600 ft., brick and rein.-con. warehouse and dock. $1,000,000.

Bids Desired

Mass., New Bedford—BOILER HOUSE—Pocahontas Fuel Co., Inc., taking bids 2 story, 30 x 40 ft., brick and terra cotta boiler house. $40,000. H. S. Adams, 1 Court St., Boston, engr.

Mass., Somerville (Boston P. O.)—REPAIR SHOP and GARAGE — Boston Elevated Ry. Co., Park Sq. Bldg., Boston, taking bids 2 story, 45 x 145 ft., rein.-con., brick and steel garage and repair shop, here. $85,000 or more. A. J. Blackburn, Park Sq. Bldg., Boston, archt. Noted Apr. 29.

Pa., Lewistown—POWER HOUSE—June 1, by Ballinger Co., archts., 12th and Chestnut Sts., Phila., 2 story, 62 x 95 ft., rein.-con. and brick addition to power house, incl. plumbing, plain foundation, on Juaniata River, here, for Viscose Co., Marcus Hook.

Pa., White Haven—MANUFACTURING—Lehigh Chemical Co. taking bids group 1 story, brick, steel and timber buildings.

O., Cleveland — PUBLISHING—German Baptist Publication Society, c/o H. P. Donner, mgr., 3804 Payne Ave., taking bids 2 story 30 x 50 ft., and 1 story 27 x 75 ft., brick and steel, East 38th St. and Payne Ave. $40,000. A. G. Simon, Hippodrome Bldg., engr. and archt.

Ind., Elkhart — FACTORY — Absolute Contg. Co. taking bids 1 story, 200 x 400 ft., brick and steel factory. $45,000. H. Miller, Elkhart, archt.

Tex., Houston—WAREHOUSE, etc.—See "Contracts Awarded."

Contracts Awarded

Mass., Boston—FACTORY—Drake Bros. Co., 85 Savin St., Roxbury, 4 story, 60 x 110 ft., rein.-con. and brick addition, to Blake & Pope, 53 State St. Archts. est. $75,000.

Mass., Springfield—MANUFACTURING and OFFICE — Westinghouse Electric & Mfg. Co., 2 story, 45 x 300 ft. office, and 1 and 4 story irregular brick manufacturing buildings, to Adams & Ruxton Constr. Co., 387 Main St. Archts. est. to exceed $150,000. Noted May 6.

Conn., Stamford—PAINT PLANT—Baer Bros., 700-68 Canal St., 2 story, 125 x 132 ft., brick and steel addition, to Thompson & Binger, 103 Park Ave., New York City. Archts. est. $75,000. Noted Apr. 29.

N. Y., Brooklyn—VARNISH FACTORY—Hilo Varnish Co., Marcy Ave., rein.-con., brick and steel, plain foundation, Marcy Ave., to W. P. McGarry Co., 292 Freeman St. Archts. est. $200,000.

N. Y., Olean — MACHINE SHOP, FOUNDRY, etc.—Clark Bros. Co., 100 x 200 ft. machine shop, 100 x 120 ft. foundry, and 40 x 90 ft. tool building, all rein.-con., brick and steel, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O.

Pa., Avis—BOILER HOUSE, etc.—New York Central R.R. Co., 466 Lexington Ave., New York City, N. Y., G. W. Kittredge, ch. engr., reconstructing, etc. boiler house, here, to W. M. Bullard, Inc., Syracuse, N. Y., $50,000; and altering piping and wiring in power station, here, to E. Joy Co., 133 Market St., Syracuse, N. Y., $25,000.

Ga., Savannah — FREIGHT WAREHOUSE — See "Buildings—Commercial."

La., West Monroe — OIL MILL — Union Oil Mill Co., 1 story, 50 x 360 ft., steel and concrete, to Denham-Vankewren-Denham, Age-Herald Bldg., Birmingham, Ala. Archts. est. $40,000.

Ind., Peru—CREAMERY, etc.—Sanitary Milk & Ice Cream Co., creamery, garage and barn, brick, concrete and steel, to C. Clifton Constr. Co., $60,000.

Ind., Shelbyville — FACTORY — Shelbyville Desk Co., steel contract 3 story, 70 x 160 ft., brick and timber, to R. Berner Structural Steel Co., 401 South Harding St., Indianapolis. Archts. est. $45,000.

Mich., Detroit—ENAMELING PLANT—C. Kotting, archt., 2306 Dime Bank Bldg., 2 story, 85 x 100 ft., rein.-con., brick and steel, plain foundation, Jefferson Ave., to Malow-Barry Co., 2631 Woodward Ave., for Detroit Stove Wks., East Jefferson Ave. Noted Apr. 29.

Ill., Canton — FACTORY — International Harvester Co., 606 South Michigan Ave., Chicago, 1 story, 39 x 160 ft., concrete and brick addition, here, to Austin Co., 160 North La Salle St., Chicago.

Ill., East St. Louis — FERTILIZER PLANT — Darling & Co., Missouri Ave. and Alton & Southern R.R. tracks, 1 story, 120 x 136 ft., concrete, brick and steel addition, to Austin Co., 160 North La Salle St., Chicago. Archts. est. $65,000.

Ill., Rockford — FOUNDRY — Greenlee Bros. Co., 1 story, 80 x 110 ft., brick and steel, Columbia Ave., to Holm-Page Co., Kishwaukee St.

Ill., Rockford—FACTORY—J. W. Miller Incubator Co., 2500 Latham St., 1 and 2 story, 50 x 250 ft., concrete and brick, Latham St., to Holm-Page Co., Kishwaukee St. Noted Apr. 20.

Wis., Cumberland—PLANT—Cumberland Co-operative Dairy Co., A. Lundquist, secy., 1 story, 50 x 174 ft., rein.-con., brick and steel, plain foundation, to Nyman Constr. Co., Cumberland. Archts. est. $40,000.

Wis., Madison — SERVICE STATION — International Harvester Co., 606 South Michigan Blvd., Chicago, Ill., 1 story, 120 x 132 ft., brick and steel, plain foundation, here, to J. H. Findorff & Son, 601 West Wilson Ave. Archts. est. $70,000. Noted Apr. 29.

Wis., Madison—DAIRY PLANT—Madison Dairy Products Co., A. Steinhauer, mgr., 413 East Main St., 1 story, 66 x 120 ft., rein.-con., brick and steel, plain foundation, Washington St., to Stegerwald Lumber Co., Sun Prairie. Archts. est. $50,000. Noted May 6.

Wis., Milwaukee—FACTORY—F. Schaaf, 71 2nd St., and Henschien & McLaren, archts., 1637 Prairie Ave., Chicago, Ill., 3 story, 77 x 150 ft., brick and concrete, plain foundation, Clybourn St., to T. Stark & Co., 130 Muskego Ave. Archts. est. $75,000. Noted May 13.

Wis., Sheboygan — FACTORY — E. A. Juul, archt., Security Natl. Bank Bldg., 4 story and basement, 40 x 108 ft., rein.-con., brick and steel addition, to W. Guenther & Sons Co., 1224 North 4th St., for Northfield Co., 18th St. and Martin Ave. Archts. est. $50,000. Noted May 13.

Mo., St. Louis—SUBSTATIONS—City, 1 story, brick and concrete substations in Dists. B, C and D, to J. J. Clarke, Arcade Bldg., $39,998.

Mo., Versailles — FACTORY — L. Abt, archt., Moberly, general contract 1 and 2 story, 50 x 224 ft., brick and concrete shoe factory, here, to Dean & Hancock, Sedalia, for Chamber of Commerce. Archts. est. $60,000. Tweedle Footwear Corp., Jefferson City, lessee. Noted May 6.

Ark., Ft. Smith — FURNITURE and BEDDING FACTORY — Ft. Smith Couch & Bedding Co., 922 North 2nd St., 2 story, 100 x 185 ft., concrete and brick addition, North 2nd St., to J. R. Murphy Constr. Co., 1504 S. P. St. Archts. est. $50,000.

Tex., Houston—ELECTRIC PLANT—Houston Lighting & Power Co., c/o S. R. Bratton, Electric Bldg., 25,000 kv. electric generator addition to electric plant, to Texas Constr. Co., Electric Bldg., $2,000,000.

Tex., Houston — WAREHOUSE, COMPRESS, etc. — Manchester Terminal Corp., c/o R. H. Baker, Post Dispatch Bldg., will build 2 story, 250 x 1,500 ft., rein.-con. and steel warehouse and compress, incl. 15,000 lin.ft. rein.-con. pier, by day labor, under supervision of R. J. Cummins, engr., 727 Bankers Mortgage Bldg. $5,000,000.

Ore., Salem—PAPER PLANT—Oregon Paper & Pulp Co., 2 story, 136 x 220 ft., rein.-con. addition, plain foundation, to Cuyler Van Patten, Salem. Archts. est. $60,000.

Ont., Lakefield — GENERATING STATION — Canada Co., Canada Cement Bldg., Montreal, Que., 16 ft. head, 2,300 hp. hydro-electric generating station, incl. vertical turbine, to Canadian Allis-Chalmers Ltd., 212 King St. W., Toronto; and generator, to Swedish General Electric Co., Ltd., 107 Duke St., Toronto. Engrs. est. $250,000.

Buildings—Educational, Religious

Proposed Work

N. H., Rochester — MECHANICS ART BUILDING — Rochester High School, c/o Dow, Harlow & Kimball, archts., 184 Boylston St., Boston, having sketches made 1 story and basement, 50 x 120 ft., brick and steel mechanics art building. $150,000.

Mass., Dorchester (Boston P. O.) — SCHOOL—Dorchester & Mattapan Hebrew School, M. E. Schneider, pres., 26 Pemberton Sq., Boston, having plans prepared by S. S. Levy, 35 Court St., Boston, 3 story and basement, 170 x 170 ft., brick and limestone, plain foundation, 800 Morton St. $400,000.

Mass., Malden (Boston P. O.) — CONVENT and CHAPEL — Church of Immaculate Conception, R. Neagle, pastor, Pleasant St., having revised plans prepared by O'Connell & Shaw, 134 Newbury St., Boston, 1 and 2 story, 18,000 sq.ft. floor space, brick

Buildings—Educational, Religious (Cont.)

and granite, Pleasant St. $175,000. Former bids rejected. Noted May 6.

Mass., Newton (Ind. br. Boston) — SCHOOL — City, Pub. Buildings Com., City Hall, plans 2 story, brick, Waverly Ave. and Ward St. $150,000 or more. Engineer and architect not selected.

Mass., Southbridge — HIGH SCHOOL — Town, E. G. Corbin, chn. Building com., plans Junior High School, 2 story, brick, Dresser St. $200,000. Engineer and architect not selected.

N. Y., Lu[illegible]lo — SCHOOL — Bd. Educ., Genesee Bldg. plans elementary school, Military Rd. $500,000.

N. Y., Geneva—SCHOOL—Bd. Educ., W. Rice, pres., plans rebuilding brick and steel, Prospect St., recently destroyed by fire. $160,000. Architect not selected.

N. Y., Lake George — SCHOOL — Bd. Educ. soon takes bids 2 story, brick, steel and stone, plain foundation, West Main St. $200,000. E. S. Hewitt, 597 5th Ave., New York City, archt. J. F. Musselman, 101 Park Ave., New York City, engr. Noted May 20.

N. Y., Lockport—CHURCH—First Methodist Church, H. L. Breeze, chn. Building Com., 92 Main St., having sketches made by Foote & Carpenter, 143 East Ave., Rochester, 1 story and basement, brick, plain foundation, East Ave. $175,000.

N. Y., Newburgh—HIGH SCHOOL—Bd. Educ. takes bids about June 1, brick, steel and stone, plain foundation. $400,000. A. F. Gilbert, 358 5th Ave., New York City, engr. and archt. Noted Apr. 15.

N. Y., Rochester—HIGH SCHOOL—Bd. Educ., Municipal Bldg., plans 3 story and basement, brick, plain foundation, Dewey Ave. $2,000,000. Engineer and architect not selected.

N. Y., Syracuse — GYMNASIUM — Syracuse University, having plans prepared by J. R. Pone, engr. and archt., 42 5th Ave., New York City, 100 x 120 ft., brick, steel and stone, plain foundation, incl. swimming pool, on campus. $200,000.

N. C., Charlotte — CHURCH, etc. — Catholic Church, A. Gallagher, pastor, plans church center, in Dilworth (a suburb), incl. church, school, home, parish house, recreation building. $500,000.

N. C., Rocky Mount—HIGH SCHOOL—Election June 7, 350,000 bonds, new high school.

Fla., Tampa — CHURCH and PARISH HOUSE—St. Andrews Parish, c/o Froham, Robb & Little, archts., 140 Boylston St., Boston, Mass., had sketches made 1 and 2 story church and parish house, here. $500,000.

Miss., Jackson — CHAPEL — Permanent Impvt. & Building Com. University of Mississippi, having preliminary plans prepared by C. H. Lindsley, Jackson, new chapel. $150,000. Noted May 6.

La., Baton Rouge — HIGH SCHOOL — Rapids Parish School Bd. (Alexandria) takes bids probably in August 3 story, brick, concrete and stone high school, here, $300,000. Favrot & Livaudis, Ltd., Hibernia Bank Bldg., New Orleans, archts; also had plans prepared by C. E. Barron, Alexandria, negro school, $25,000. Noted Dec. 31 under "Boyce."

Tenn., Nashville — COLLEGE — State of Tennessee Agricultural and Industrial Negro Normal School, P. L. Harned, comr., plans Women's Dormitory, Science Hall, Training School, Library and Teachers Home. $325,000. State appropriates $160,-600 towards cost and balance by subscription.

O., Columbus — COLLEGE — Pontificial College, S. O. Sephinum, 17th and Main Sts., having sketches made drawn by 3 architects, brick, concrete and stone, incl. church, gymnasium, libraries and college, North High St. near Flint St. $100,000.

O., Columbus — HIGH SCHOOL — Bd. Educ. having sketches made by H. D. Smith, 207 East State St., Junior High School, 2 story and basement, brick and concrete, Indianola Park. $325,000.

Mich., Detroit — HIGH SCHOOL — Bd. Educ., 1354 Bway. Ave., having plans prepared by Malcolmson & Higginbotham, 1217 Griswold St., 2 story and basement, rein.-con., brick and steel addition to Eastern High School, plain foundation, East Grand Blvd. $495,500. McColl, Snyder & McLean, 2348 Penobscot Bldg., engrs.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., having plans prepared by McGrath, Dohmen & Page, 2231 Park Ave., 2 story and basement, 1,320 seating capacity, rein.-con., brick and steel, plain foundation Elmira and Meyers Aves. $400,-500. Van Tuyl, Heartt & Barron, Union Trust Bldg., engrs.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., having plans prepared by Malcolmsom & Higginbotham, 1217 Griswold St., 2 story and basement, 960 seating capacity, rein.-con., brick and steel addition to A. L. Holmes School, plain foundation, Georgia Ave. $336,600. McColl, Snyder & McLean, 2348 Penobscot Bldg., engrs.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway Ave., having plans prepared by McGrath, Dohmen & Page, 2231 Park Ave., 2 story and basement, 740 seating capacity, rein.-con., brick and steel, plain foundation, Clark School site. $255,500. E. R. Little Co., Inc., 1918 Ford Bldg., engrs.

Ill., Carbondale—COLLEGE—Southern Illinois State Teachers College having preliminary plans prepared by W. J. Lindstrom, engr. and archt., 568 Transportation Bldg., Chicago, Ill., 2 story and basement, rein.-con., brick and stone science and manual arts building. $250,000.

Ill., Chicago—CHURCH—Our Lady of Victory Congregation, F. Cichozki, 5212 Agatite Ave., having plans prepared by E. Brielmaier & Sons, 432 Bway., Milwaukee, Wis., 2 story and basement, brick and stone, Agatite Ave. $275,000.

Ill., De Kalb—COLLEGE—Northern Illinois State Teachers College, having preliminary plans prepared by W. J. Lindstorm, engr. and archt., 568 Transportation Bldg., Chicago, 3 story and basement, rein.-con., brick and stone college. $250,000.

Ill., Elgin — SCHOOL — Chicago Junior School, Inc., W. A. Beile, pres., 162 North State St., Chicago, having preliminary plans prepared group concrete, brick and stone school buildings, on Fox River 1 mi. north of here. $1,000,000.

Ill., Macomb—COLLEGE—Western Illinois State Teachers College, having preliminary plans prepared by W. J. Lindstrom, 568 Transportation Bldg., Chicago, 2 story and basement, rein.-con., brick and stone college. $250,000.

Ill., Waukegan—CHURCH—First Baptist Congregation, c/o L. Yager, chn., 515 North Sheridan Rd., having preliminary plans prepared 2 story and basement, rein.-con., brick and stone church. $150,000. Engineer and architect not selected.

Neb., Lincoln — CHURCH — First Christian Church having plans prepared by E. G. Groves, 1982 Bway., Denver, Colo., 1 story and basement, 80 x 143 ft. steel church, plain foundation, 16th and K Sts. $250,000.

Mo., Carrollton — SCHOOLS — Election June 8, $180,000 bonds, schools.

Tex., McAllen — SCHOOLS — Bd. Educ. plans election $385,000 bonds, 2 rein.-con., brick and stone schools.

Tex., Mercedes—HIGH SCHOOL—Voted $150,000 bonds, new high school. E. Malhausem, Mercedes, archt. Noted Apr. 29.

Tex., San Antonio—CHURCH—St. Marks Church, c/o R. P. Crum, pastor, takes bids after June 5, 3 story, 48 x 112 ft., brick, stone and concrete parish house, and 2 story, 50 x 100 ft., brick and concrete auditorium with balcony, Pecan and Jefferson Sts. $160,000. Giles & Beckmann, c/o Moore Bldg., archts.

Ore., Hood River—SCHOOL—Bd. Educ. having plans prepared high school, here. $169,000.

Calif., Los Angeles—SCHOOL—Bd. Pub. Wks., having revised plans prepared by Dodd & Richards, Brack-Shops Bldg., Riis School, 1 and 2 story, brick, 69th St. near Main St. $275,000. Former bids rejected. Noted Apr. 15.

Bids Desired

N. H., Durham—COLLEGE—June 1, by University of New Hampshire, R. Hetzel, pres., 2 story and basement, 60 x 75 ft., and 60 x 120 ft., brick and steel, on campus. $225,000. E. T. Huddleston, Durham, archt. Noted May 13.

Mass., Medford (br. Boston)—CHURCH —St. James Roman Catholic Church, Fellsway corner 4th St., taking bids 1 story and basement, brick and stone, plain foundation. To exceed $150,000. E. T. P. Graham, 171 Newbury St., Boston, archt. Noted Jan. 28.

Mass., Medford (br. Boston) — HIGH SCHOOL—June 10, by M. A. Dyer, archt., 1 Beacon St., Boston, Junior High School, 3 story and basement, irregular, brick and stone, plain foundation, Court and Park Sts., Ward 2, here, for City, R. E. Coolidge, mayor. $560,000. Noted May 20.

Mass., Roxbury (Boston P. O.) — CHAPEL — Rabbinical College Inc., taking bids on revised plans, 2 story and basement, 95 x 120 ft., rein.-con. and terra cotta, plain foundation, Warren and Brunswick Sts. $150,000. Former bids rejected. J. A. Tuck, Park Sq. Bldg., Boston, archt. Noted Apr. 29.

Mass., Taunton—SCHOOL—City, Comrs. Pub. Property, taking bids 2 story and basement, brick and stone, Barnum St. $150,000. G. W. Briggs, 53 State St., Boston, archt. Noted May 6.

N. Y., Brooklyn—SCHOOL—June 8, by Bd. Educ., 500 Park Ave., New York City, P. S. 91, Albany Ave. and Maple St., here. W. H. Gompert, Flatbush Ave. extension and Concord St., archt. and engr.

N. Y., Poughkeepsie—REFECTORY and DORMITORIES — Vassar College taking bids 2 and 3 story and basement, brick, refectory and dormitories. To exceed $150,000. Allen & Collins, 75 Newbury St., Boston, Mass., archts.

N. J., Jersey City—SCHOOL—June 2, by Bd. Educ., P. S. 22, 2 story school, Van Horne and Maple Sts. $200,000. J. T. Rowland, 100 Sip Ave., Jersey City, archt.

Pa., Phila. — STADIUM and GYMNASIUM — June 1, by Day & Klauder, archts., 1410 Chestnut St., 2 story and basement, 277 x 343 ft., rein.-con., brick and steel, concrete pile foundation, 33rd and South Sts., for University of Pennsylvania, 34th and Spruce Sts. $400,000. W. H. Gravell, Otis Bldg., engr. Noted Jan. 21 under "Unclassified."

Pa., Sharon — SCHOOL — Bd. Educ., taking bids 2 story and basement, 50 x 52 ft., and 62 x 161 ft., brick, steel and concrete school. $200,000. E. S. Hanna and E. E. Clapper, McDowell Bank Bldg., archts. Noted Apr. 8.

O., Cleveland—LIBRARIES—June 15, by Public Library Bd., C. S. Metcalf, secy.-treas., East 3rd St. and Superior Ave., two 1 and 2 story, brick, steel and concrete branch libraries, one Parkwood Dr., and other 2820 East 116th St. $180,000. Walker & Weeks, 1900 Euclid Bldg., archts.

Ill., Alton—HIGH SCHOOL—June 3, by H. H. Hewitt, secy. Bd. Educ., 3 and 4 story, rein.-con., brick and stone, College St. $500,000. L. Pfeiffenbergers Sons, 102 West 3rd St., Alton, archts. $500,000. Noted Apr. 15.

Ill., Urbana — ARCHITECTURAL SCHOOL — June 12, by University of Illinois, 3 story, rein.-con., brick and stone, on campus. $500,000. J. E. White, administration Bldg., ch. engr. and archt. C. A. Platt, 101 Park Ave., New York City, consult. engr. and archt. Noted Feb. 25.

Calif., Inglewood—SCHOOL—L. F. Mulqueen, archt., Finance Bldg., Los Angeles, taking bids 2 story and basement, 53 x 106 ft., brick, here, for Roman Catholic Archbishop, Los Angeles.

Que., Sherbrooke — CONVENT — L. N. Audet, 30 Wellington St. N., taking bids 4 and 5 story, 2 wings, stone and steel, Drummond Rd., for Sister Ste. Famille, Marquette St. $600,000.

B. C., Vancouver—SCHOOLS—May 31, by Bd. School Trustees, Hamilton St., two 3 story, 11 room, rein.-con. and tile, plain foundations. $200,000. Sharp, Thompson & F. A. A. Barrs, 708 London Bldg., archts. P. P. Brown, 410 London Bldg., engr.

Bids Received

Conn., Danbury — DORMITORY — State Bd. Educ., 130 Washington St., Hartford, May 19, 2 story and basement, 7,040 sq.ft. floor space, brick, here, from Hewlett Co., 886 Main St., Bridgeport, $128,960. Noted May 6.

N. Y., Maspeth (Ind. sta. Flushing)—SCHOOL—W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, May 20, general contract P. S. 73, 54th Ave. and 71st St., here, for Bd. Educ., 500 Park Ave., New York City, from Hamilton & Chambers, 29 Bway., New York City, $339,700; plumbing, from G. M. O'Connor, 152 Fulton Ave., Astoria, $28,300; and heating, from D. J. Rice, Inc., 606 1st Ave., New York City, $49,279. Noted May 13.

N. Y., Springfield — SCHOOL — W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, May 20, general contract P.S. 52, from comfort to Grand Ave., here, for Bd. Educ., 500 Park Ave., New York City, from Willets Constr. Co., 280 Madison Ave., New York City, $370,000; plumbing, from J. A. Graf, 111 Putnam Ave., Brooklyn, $25,631; and heating, from D. J. Rice, Inc., 606 1st Ave., New York City, $49,713. Noted May 13.

Pa., Pittsburgh—HIGH SCHOOL—Bd. Educ., Fulton Bldg., May 13, 2 and 3 story and basement, irregular shaped addition to Samuel P. Langley High School, Chartiers

Buildings—Educational, Religious (Cont.)

Ave., from Gilpatrick Dawson Co., Empire Bldg., $424,000. Noted May 13.

Contracts Awarded

Me., Portland — CHURCH — Immanuel Baptist Church, 1 story and basement, brick and stone, High and Deering Sts., to Googins & Clark, 46 Portland St. Archts. est. $150,000.

N. H., Peterboro—HIGH SCHOOL—City, School Building Com., 2 story and basement, brick and stone, to R. Carll, Peterboro. Archts. est. $150,000.

Mass., Dorchester (Boston P. O.) — SCHOOL — Schoolhouse Dept., Boston, 2 story and basement, 115 x 175 ft., brick addition, Monot Dist., here, to M. S. Kelliher, 21 North Monroe Terrace, $187,-390. Noted May 20.

Mass., Gardner — HIGH SCHOOL — Bd. Educ., 2 story and basement, brick and stone, plain foundation, to L. Rocheford & Son, Worcester, $379,087; heating and ventilating, to Holyoke Supply Co., Holyoke, $62,330; plumbing and drainage, to W. Norris, Gardner, $29,500.

Conn., New Haven — CLASS and LECTURE — Yale College, J. R. Angell, pres., for Harkness Memorial, brick, steel and stone, College and Blount Aves., to Sperry & Treat, 39 Church St. Archts. est. $900,-000. Noted Feb. 11.

N. Y., Corning—HIGH SCHOOL—Bd. Educ., brick, steel and stone, plain foundation, to Corning Building Co., Corning. Archts. est. $350,000. Noted Apr. 22.

N. Y., Montrose—HIGH SCHOOL—Bd. Educ., general contract brick, steel and stone, plain foundation, to L. Kiel, Ossining, $270,000; heating, to Johnston Heating Co., 131 East 26th St., New York City, $34,750. Noted May 13.

N. Y., New York—CHEMISTRY—New York University, University Heights, 4 story, brick, steel and stone, plain foundation, on campus, to Saxton-Gerard Co., Inc., 19 West 44th St. Archts. est. $750,000. Noted Apr. 15.

N. J., Cliffside Park (mail Cliffside)—HIGH SCHOOL—Bd. Educ., Cliffside, brick, steel and stone addition, Parkside Ave., here, to Coppoletta Bros., Cliffside Park, $227,000; ventilating, heating, etc., to G. B. and B. H. Steinke, Cliffside, $33,250. Noted May 6.

N. J., Newark—CHURCH—Cathedral of Sacred Heart, brick, steel and stone, plain foundation, here, to E. M. Waldron, Inc., 84 South 6th St., $778,217.

N. J., West New York (Ind. br. Weehawken)—HIGH SCHOOL—Bd. Educ., Municipal Bldg., Memorial High School, Park Ave., Bway., 11th and 12th Sts., to Auf Der Heide Constr. Co., West New York, $613,-000. Noted May 20.

Pa., Pittsburgh — HIGH SCHOOL — Bd. Educ., Fulton Bldg., 2 and 3 story and basement, irregular shaped addition to Samuel Langley High School Chartiers Ave., to Gilpatrick Dawson Co., Empire Bldg., $424,000; heating and ventilating, to W. N. Sauer Co., 806 Chestnut St., $49,197; and plumbing, to Moss & Blakeley Co., 223 Beltzhaver St., $29,355. Grand total $502,552. Noted May 13.

Md., Baltimore—SCHOOL—Mayor and City Council, 2 story and basement, irregular shaped, brick and steel, plain foundation, Patterson Park Ave. and McElderry St., to DeCou & Davis, 9 West Chase St., $261,700. Noted May 20.

Fla., Sanford—HIGH SCHOOL—Bd. Educ., 2 story, 130 x 262 ft. high school, French and Central Aves., to F. Lossing, Sanford, $194,000.

Ky., Harrodsburg—CHURCH—Christian Church, 2 story, 106 x 108 ft. concrete, brick and steel church, to J. T. Jackson Lumber Co., Lexington. Archts. est. $200,-000. Noted Apr. 22.

Ill., Danville—CHURCH and SUNDAY SCHOOL—St. James Methodist Episcopal Congregation, T. N. Ewing, pastor, 1 and 2 story, 175 x 240 ft., rein.-con. and limestone, Williams and Vermillion Sts., to W. F. Keuhne, Rantoul. Archts. est. $250,000.

Ill., Peoria—HIGH SCHOOL—Bd. School Inspectors, G. T. Monst, secy., general contract Blaine Summer School, 3 story, 183¼ x 251¼ ft., rein.-con., brick and stone, to V. Jobst & Sons, Lehman Bldg., $253,500; plumbing, heating and ventilating, to J. M. Shea & Co., 1025 South Adams St., $53,713. Noted May 20.

Wis., Holy Hill (Hubertus P. O.) — CHURCH—Carmelite Fathers, Route 1, Hubertus, superstructure 2 story, brick and stone church, to H. Schmitt & Son, 14 Burleigh St., Milwaukee. Archts. est. $300,000.

Ia., Des Moines — CHURCH — Dougher, Rich & Woodburn, archts. and engrs., 806 Valley Natl. Bank Bldg., ground floor and Sunday school room, 2 story, 185 x 191 ft., rein.-con. and steel, plain foundation, 41st St. and Ingersoll Ave., to A. H. Neumann & Co., 519 Hubbell Bldg., for Plymouth Congregational Church. $180,000. Archts. total est. $300,000. Noted May 6.

Federal Government Work

Proposed Work

Ill., Great Lakes (mail Waukegon) — Apartment—Spec. 5158—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids May 12, apartment for officers, at Naval Training Camp, here. Noted May 20.

California—Road—U. S. Bureau Pub. Rds., 9 Main St., San Francisco, making specifications grading, etc., 16 mi. Covelo-Lew Gap Natl. Forest Rd. Project, Mendocino Co.

Bids Desired

Mass., Fort Warren—Water System—June 21, at office Quartermaster, Infantry Post, reconstructing water distribution system.

N. Y., Plattsburg—Remodeling—June 11, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office and Custom House, here adv. E. N.-R. May 27.

Pa., Phila.—Conduits, etc.—June 1, by Treas. Dept. at office Supervising Archt., Wash., D. C., installing conduits, ceiling, terrazzo and wood floor, at U. S. Mint, here.

Pa., Pittsburgh—Houses—June 18, by U. S. Engineer Office, two 2 story lock-keepers houses at Locks 7 and 8, in Monongahela River; adv. E. N.-R. May 27.

Pa., Pittsburgh—Dam—June 21, by U. S. Engineer Office, Dam 5, Allegheny River; adv. E. N.-R. May 27.

Va., Quantico—Dredging—Spec. 5163—June 9, by Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging at Marine Barracks, here.

O., Dayton—Administration, etc.—June 11 at office Constructing Quartermaster, Wright Field, administration and laboratory building (except foundations) at Wright Field, here; adv. E. N.-R. May 27. Noted Apr. 1.

Ill., Chicago — Dredging — June 22, by U. S. Engineer Office, 537 South Dearborn St., dredging in Calumet River; adv. E. N.-R. May 27.

Minn., Winona—Boilers, etc.—June 17, by Treas. Dept. at office Supervising Archt., Wash., D. C., boilers, heating system, etc. at U. S. Courthouse and Post Office, here; adv. E. N.-R. May 27.

South Dakota—Road—June 1, by J. W. Johnson, dist. engr. Bureau Pub. Rds., Custom House, Denver, Colo., grading, etc., 3.55 mi. Deadwood-Hot Springs, Sheridan Natl. Forest Rd. Project, Pennington Co., here.

N. D., Devils Lake — Mess Hall, etc. — June 8, by H. Sorenson, U. S. Property & Disbursing Officer, officers mess hall, kitchen, etc. at Camp Gilbert C. Grafton.

Colorado—Road—June 1, by J. W. Johnson, 301 Custom House Bldg., Denver, grading, etc. 2.16 mi. Mt. Evans Chicago Creek Sect. Natl. Forest Road Project, Clear Creek Co.

Colorado—Road—June 2, by J. W. Johnson, dist. engr. Bureau Pub. Roads, Custom House, Denver, grading, etc., 3.95 mi. South St. Vrain Sect. 2, Natl. Forest Rd. Project, Boulder Co.

New Mexico—Road—June 2, by J. W. Johnson, dist. engr. Bureau Pub. Rds., 301 Custom House, Denver, Colo., grading, etc., 10 mi. Navajo Canyon, Surfacing Sect. Natl. Forest Rd., Project, Rio Arriba Co., here.

California — Road — June 2, by C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., 9 Main St., San Francisco, grading, bridging, etc., 16.3 mi. Covelo Sect. Mendocino Pass, Natl. Forest Rd., Mendocino Co.

Calif., Livermore—Kitchen, etc.—June 28, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., kitchen for ambulant cottages, dining room, covered walks, etc., here. L. H. Tripp, ch. constr. bureau.

Calif., San Diego—Dredging—June 10, by U. S. Engineer Office, Los Angeles, 388,-000 cu.yd. dredging in harbor, here.

Bids Received

Mass., Rutland Heights — Refrigeration and Ice Making Machinery—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., May 18, refrigerating and ice making plant at U. S. Veterans Hospital 89, here, from New England Ice Machine Co., Charlestown, Ill., $9,663 (2) $12,000 (90 days). Noted May 13.

Md., Baltimore—Storehouse—Treas. Dept. at office Supervising Archt., Wash., D. C., May 17, storehouse at U. S. Quarantine Station, here, from Bell Concrete Constr. Co., Inc., 802 East Eager St., $2,648. Noted May 13.

Fla., Miami—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., May 14, remodeling U. S. Post Office, here, from L. Fleisher Co., Inc., Miami, $12,500. Noted Apr. 29.

Ga., Augusta—Recreation—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., May 18, recreation building at U. S. Veterans Hospital 62, here, from A. C. Samford, 24 Galena St., Montgomery, Ala., $85,-500 (180 days). Noted Apr. 15.

Ind., Anderson—Extension—Treas. Dept. at office Supervising Archt., Wash., D. C., May 18, 1 story and basement extension to U. S. Post Office, here, from A. M. Lundberg, 208 North Bway., St. Louis, Mo., $14,-200. Noted May 6.

Mich., Camp Custer (br. Battle Creek)—Curbs, etc.—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., May 8, curbs and gutters at U. S. Veterans Hospital 100, here, from H. C. Gobe Constr. Co., Battle Creek, Mich., $13,460 (45 days). Noted Apr. 29.

Ill., Great Lakes (br. Waukegan)—Mezzanine — Spec. 5209 — Bureau Yards & Docks, Navy Dept., Wash., D. C., May 19, mezzanine floor in storehouse, at Naval Training Station, here, from Harmon Eng. Co., 844 North Rush St., Chicago, $12,965. Noted May 13.

Contracts Awarded

D. C., Wash.—Hospital, etc.—U. S. Veterans Bureau, Arlington Bldg., general contract kitchen, mess and two ward buildings, to G. E. Wyne, 2525 Penn. Ave., $669,-823; plumbing and heating, to W. G. Cornell Co., 19 Patterson St. N. E., $35,881 and $67,025 respectively; electrical work, to Capitol Elevator Co., 829 14th St., $23,216, elevators, etc., to Westbrook Elevator Co., Inc., Danville, Va., $12,115; and refrigeration plant, to Chatard & Norris, 206 Water St., Baltimore, Md., $15,800. Grand total $823,859. Noted Apr. 29.

D. C., Wash.—Power Plant—U. S. Engineer Office, 1068 Navy Dept. Bldg., power plant for Dist. of Columbia water supply, to Parson & Hyman, Inc., Equitable Bldg., $209,400. Noted May 20.

Va., Norfolk—Catamarans, etc.—U. S. Engineer Office, pontoon catamarans, to Newport News Shipbuilding & Dry Dock Co., Newport News, Va., $30,285; and pipe line dredge, to Novelty Steam Boiler Wks., 917 South Howard St., Baltimore, Md., $8,280. Noted Apr. 1.

Miss., Vicksburg—Levee—Third Mississippi River Dist., P. O. Box 404, Item 1 to Elkas, Weathers & Burt, Greenville, Miss., $57,375; Items 2, 3 and 5, to T. W. Roach, Main and Adams Sts., Memphis, Tenn., $177,300; Item 4, to Wooten & Rodgers Co., 62 South Front St., Memphis, Tenn., $69,000; and Item 6, to R. T. Clarke Co., Inc., J. W. Noble and R. P. Harris, Natchez, Miss., $12,558. Grand total $316,-233. Noted Apr. 29.

La., New Orleans—Earthwork—U. S. Engineer Office, 140 Decatur St., to Acme Constr. Co., Point-a-la-Hache, Junior Levee, $4,740, Goldmine Levee in La Fourche Levee Dist. $16,489, Hermitage-Diamond Levee $37,562, Orange Grove and Scarsdale Levee $9,000; to Dameron & Kenyon, Port Allen, Tacon-Palo Alto Levee and Vidalis St. Genevieve Levee, Lower Tenas Levee Dist. $136,500; to Lafourche Basin Levee Bd., Donaldsville, St. Rosalie Ironton Levee, in Baratria Levee Dist. $9,690; to S. B. Schoenberger, Triumph, Wench Villa, Magnolia and Point Celeste Woodland Levees $10,260, also Story-Merritt Levee, in Lake Borgne Levee Dist. $13,-800; to D. C. Hearin & Son, Baton Rouge, Monroe-Whitehall Levee in Pontchartrain Levee Dist., $62,446; to Lower Coast Constr. Co., Ltd., Godchaux Bldg., New Orleans, Good Hope Levee, $45,500; to P. M. Adima, Pointe-a-la-Hache, Promised Land and Fanny Levees, $12,541; and to Grasser Constr. Co., Canal-Commercial Bldg., New Orleans, Turners Bayou to Crooked Bayou Levee, Bayou Bouef Levee Dist., $53,325. Grand total $411,853. Noted Mar. 25.

Indiana — Dredging — U. S. Engineer Office, 537 South Dearborn St., Chicago, Ill., dredging in Indiana Harbor Canal, here, to Great Lakes Dredge & Dock Co., 104 South Michigan Ave., Chicago, Ill., $22,176. Noted Apr. 29.

Unclassified

Proposed Work

Transmission Line—New York—Buffalo Niagara & Eastern Power Co., Electric Bldg., Buffalo, plans extending transmission line from Hunts Corners, west a distance of 3 miles. $100,000.

Swimming Pool—Syracuse, N. Y.—See "Buildings—Educational, Religious."

Grade Crossing Elimination — Greensboro, N. C.—City and Southern Ry., B. Herman, ch. engr., 1300 Penn. Ave., Wash., D. C., plan eliminating 9 grade crossings. P. C. Painter, city mgr. O. S. Payzant, engr. for architectural firm of Felheimer & Wagner, 155 West 42nd St., New York City, in charge surveys and plans.

Overpass—Tennessee—State Dept. Highways & Pub. Wks., Nashville, takes bids about June 13, rein.-con. overpass over Mobile Ohio R.R. tracks, near Youngs Crossing, and one over Southern R.R. tracks at Caswell Station, also embankment, approaches to same. Each to exceed $25,000 each. C. N. Bass, highway comr.

Dock—Cleveland, O.—See "Buildings—Industrial."

Grade Separation—Detroit, Mich.—City Council, J. L. Barton, grade separation engr., and Grand Trunk Railway System, Detroit, F. P. Sisson, div. engr., plan grade separation on Dequindre St. line of Grand Trunk Ry., incl. bridges, etc., on Sherman and Catherine Sts. $327,071. J. L. Barton, City Hall, engr.

Lighting System — Cairo, Ill. — See "Streets and Roads."

Park Improvements, etc.—Appleton, Wis.—Park Bd., J. A. Wood, secy., soon takes bids improving Pierce Park. $50,000. D. Bushey, City Hall, engr.

Street Lighting System—Whitefish Bay, Wis.—Making plans extending ornamental street lighting system on various streets, approximately 150 concrete posts and lights. $30,000. T. F. Buckley, Village Hall, engr.

Car Barns—Cedar Rapids, Ia.—Cedar Rapids & Marion City Ry. Co., D. Ave. and 2nd St., having plans prepared by E. Lerch, United Light Bldg., Davenport, 1 and 2 story, 140 x 300 ft., steel, plain foundation. $200,000. G. T. Shoemaker, United Light Bldg., Davenport, engr. Noted Apr. 1.

Street Lighting System—St. Paul, Minn.—City authorized street lighting system on Montreal Ave. between West 7th St. and Snelling Ave., Edgcumbe Rd. between Randolph and Montreal Aves., Ford Rd. between Mississippi Bridge and Snelling Ave., and Snelling Ave. between Otto and Montreal Aves. $60,000. G. M. Shepard, city engr.

Lighting System — Canton, Mo. — See "Streets and Roads."

Parks and Playgrounds—Webster Groves (Ind. br. St. Louis), Mo.—Defeated $225,000 bonds, parks and playgrounds, etc. Noted Apr. 29.

Cement Block Plant—Alamo, Tex.—Deer Creek Stone Quarries, Topeka, Kan., making preliminary plans cement block plant, here. $60,000. Private plans.

Resort, Playground, etc.—Corpus Christi, Tex.—S. Robertson, Brownsville, making plans developing (1st unit) 5,000 acres, portion Padre Island, for playground and resort, light plant, waterworks system and paving. $100,000. G. F. Green Co., Tampa, Fla., engr.

Gas Mains — Santa Barbara, Calif. — Southern Counties Gas Co. of California, 311 South Spring St., Los Angeles, plans extending gas mains, etc., in various streets. $250,000.

Transmission Line—Quebec—Shawinigan Water & Power Co., Shawinigan Falls, soon takes bids 15 mi. 60,000 hp. transmission line from Grande Chute through St. Genevieve, St. Maurice and Cap de la Madeleine Parishes.

Lamp Standards and Cables — Montreal, Que. — City Council voted $71,800 bonds, lamp standards and cables in connection with new lighting systems.

Lines, Cables, etc.—Kingston, Ont.—Bell Telephone Co. of Canada, plans extending lines, cables, services, etc. $50,000.

Dock—Newcastle, New South Wales—State Government plans 15,000 ton capacity floating dock for port, here. $3,000,000.

Bids Desired

Station Finish Work—New York, N. Y.—June 7, by Bd., Transportation, J. H. Delaney, chn., 49 Lafayette St. station finish work at Times Square Sta. of Rapid Transit R.R.

Sanitary Work, etc.—Utica, N. Y.—June 16, by State Hospital Comn., Capitol, Albany, sanitary work, plumbing, etc. main building Utica State Hospital, here; adv. E. N.-R. May 27.

Subway—Phila., Pa.—June 16, by H. E. Ehlers, dir. Dept. City Transit, 1211 Chestnut St., special track work, channels and appurtenances for Broad St. subway.

Transmission Line—Greensboro, Ga.—See "Contracts Awarded."

Airplane Hangar—Lansing, Ill.—May 29, by Ford Motor Car Co., Highland Park, Mich., 1 story, 124 x 125 ft., rein.-con., brick and steel airplane hangar, here. A. Kahn, 1000 Marquette Bldg., Detroit, Mich., archt.

Gas Pipe Line — Texas — See "Contracts Awarded."

Bids Received

Timber Piles, etc. — Albany, N. Y. — Albany Port Comn., 100 State St., May 21, timber piles and platform for bulkhead at Port of Albany, on Westerlo Island, from Great Lakes Dredge & Dock Co., 27 Lumber Dist., $319,220. Noted May 13.

Tunnel — Oakland, Calif. — East Bay Municipal Utility Dist., Ray Bldg., 1924 Bway., May 14, constructing Claremont Tunnel, portion of East Bay Aqueduct of Modelumne River Project, from McDonald & Kahn, 130 Montgomery St., San Francisco, $1,068,140. Noted Apr. 8.

Contracts Awarded

High Power Receiving Station—Belfast, Me.—Radio Corp. of America, 66 Broad St., New York City, high power receiving station, here, to Skinner & Cook, 280 Madison Ave., New York City. Archts. est. $50,000.

Standpipe and Elevated Tank—Quincy (Ind. Br. Boston), Mass.—Dept. Pub. Wks., concrete steel standpipe and tanks, to Chicago Bridge & Iron Wks., 1305 West 105th St., Chicago, Ill., $55,000. Noted Apr. 29.

Stadium — Greensboro, N. C. — Stadium Com., c/o E. B. Jeffreys, mayor, grading and constructing concrete stadium, etc., to Carolina Contg. Co., Greensboro, $119,652. Noted Apr. 15.

Transmission Line — Greensboro, Ga. — Georgia Ry. & Power Co., 75 Marietta St., Atlanta, will build 4 mi. 38,000 volt transmission line, by day labor.

Lighting System—St. Petersburg, Fla.—Lighting system on Tangerine Ave., to Wright Electric Co., St. Petersburg, $57,763.

Camp—Tullahama, Tenn.—W. C. Boyd, State Adj. General Tennessee Natl. Guard, State Capitol Bldg., Nashville, for National Guard Camp, incl. waterworks, sewers and clearing site, here, to J. Marlin Constr. Co., Tullahama; constructing barracks and miscellaneous buildings, to Maugan-Bell Constr. Co., Murfreesboro. Total $68,000. Noted Apr. 22.

Promenade — Detroit, Mich. — H. W. Busch, comr. Parks & Boulevards, brick, concrete and stone promenade around James Scott Water Fountain on Bell Isle, to Gallagher-Fleming Co., 6500 Epworth Blvd., $37,000. Noted May 20.

Storage Bins — Superior, Wis. — Cargill Elevator Co., Bd. Trade Bldg., Duluth, Minn., 32 concrete storage bins, etc., for grain elevator, on Montreal Pier, here, to Barnett & Record Co., Lyceum Bldg., Duluth, Minn., $200,000.

Culverts — Grundy Center, Ia. — See "Streets and Roads."

Culverts — South Dakota — State Hy. Comn., Pierre, culverts on State Aid Project 42, Corson Co., to Northwestern Eng. Co., Kadoka, $33,687. Noted Apr. 22 under "Streets and Roads."

Gas Pipe Line—Texas—Upham Gas Co., c/o C. R. Upham, Childress, will build 356 mi. 12 in. gas pipe line from Wheeler Co. fields to Wichita Falls, by day labor. $3,000,000. Private plans.

Pier — Houston, Tex. — See "Buildings—Industrial."

Overhead Crossing — Washington — See "Streets and Roads."

Dock—Olympia, Wash.—Port Comn., constructing dock on west side harbor fill, incl. driving 769 creosoted and 35 untreated piles 200,000 lb. wrought and c.i., etc., to T. E. Jones, Coleman Bldg., Seattle, $52,372.

Amusement Park—Quebec, Que.—Belmont Park Amusement Co., c/o F. H. Blackwell, Chateau De Blois, Three Rivers, amusement park, here, to C. Leclerc, 19 Hart St., Three Rivers. Engrs. est. $150,000.

Subway — Toronto, Ont. — Toronto Terminals Rys. Co., New Union Sta., rein.-con. and steel subways at Bay and Yonge Sts., and concrete concourse between above streets, to P. Lyall & Sons Constr. Co., 120 St. James St., Montreal, Que. Engrs. est. $2,000,000-$2,500,000. Noted. Apr. 15.

Wharf—North Vancouver, B. C.—Rein.-con. addition to Ferry Wharf, to Georgia Constr. Co. Ltd., Bank of Toronto Bldg., Vancouver, $26,980.

Foundation—Victoria, B. C.—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Materials

Proposed Work

Ballast—Phila., Pa.—Dept. Supplies, E. J. Lafferty, dir., rejected bids May 10, 2,425 tons slag and 7,921 tons 1.5 x 2.5 ballast, 1,363 tons ¾ and 1,475 tons ½ stone. Noted May 6.

Road Oil—La Crosse, Wis.—Bd. Pub. Wks. soon takes bids 5 car loads road oil. C. C. Congdon, City Hall, engr.

Bids Desired

Cement, etc.—St. George, N. Y.—June 4, by J. A. Lynch, pres. Richmond Boro, Boro Hall, portland cement, sand ¾ in. stone, brick, lumber, etc. as directed.

Cement—Chicago, Ill.—June 1, by City, Room 406, City Hall, 9,000 bbl. mason cement at Western Ave. Pumping Station, 50th St. and Western Ave. A. A. Sprague, comr.

Steel—Los Angeles, Calif. — Shell Co., California Higgins Bldg., taking bids 3,000 tons structural steel for steel storage oil tanks.

Rails—Melbourne, Australia—June 2, by Secretary Victorian Govt. Railways, 14,190 railway rails, 60 pds. per yd., and 45 ft. long; also 13,500 pairs fish plates for same.

Bids Received

Rails, Screws, etc. — Phila., Pa. — H. E. Ehlers, dir. Dept. City Transit, 1211 Chestnut St., May 21, rails, splice bars, bolts, nut locks and screw spikes, Contr. 123, for Broad St. subway, from Bethlehem Steel Co., Bethlehem, $172,541. Noted May, 13.

Contracts Awarded

Wood Blocks — Boston, Mass. — Supply Dept., 50,000 wood blocks, to C. & R. Constr. Co., 67 Harrison Ave. E., Roxbury, $3,100. Noted Apr. 22.

Iron Casting — New York, N. Y. — J. Miller, pres. Manhattan Boro, Municipal Bldg., iron castings to Corporation Yards, to Campbell Fdry. Co., 33 Manor Ave., Harrison, N. J., $25,000; and to Flockhart Fdry., 79 Polk St., Newark, N. J., $25,123.

Steel — New York, N. Y. — New York Central R.R. Co., Grand Central Terminal, structural steel for viaduct from Clair Pl. to West 137th St., to Railroad Supply Co., 30 Church St., $260,000.

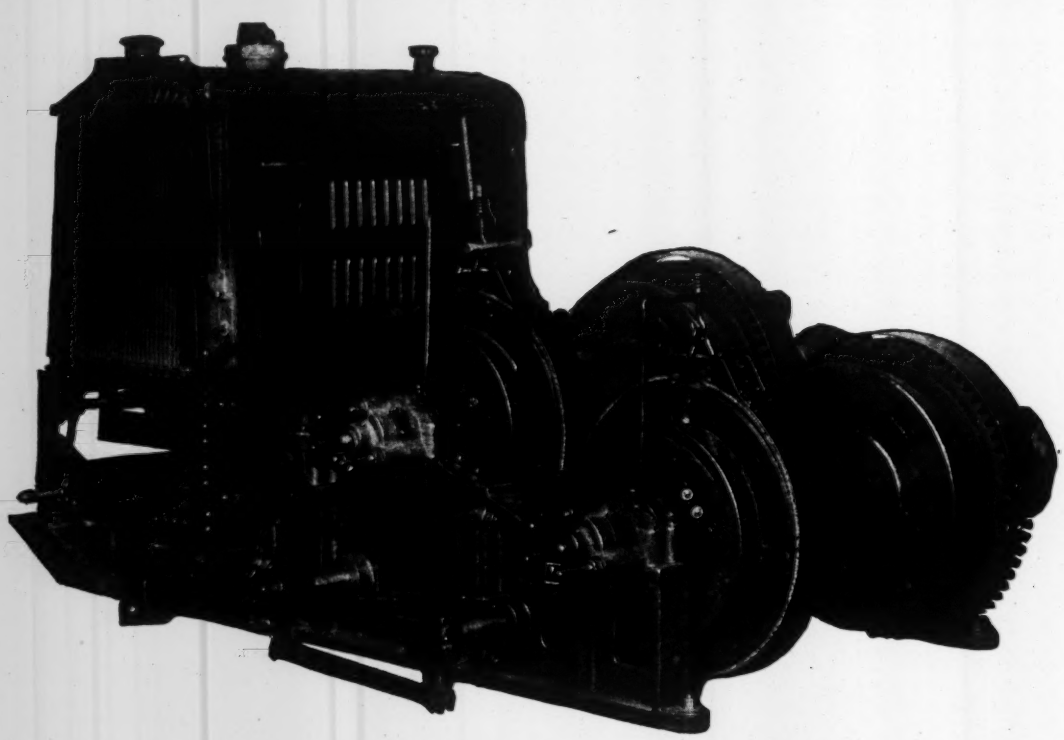
Road Oil—St. Paul, Minn.—F. S. Gram, city purch. agt., 300,000 gal. road oil, to Standard Oil Co. of Indiana, 1937 Southeast 4th St., Minneapolis, at $.0619 per gal. Noted May 13.

Road Oil—St. Paul, Minn.—G. J. Reis, aud. Ramsey Co., 300,000 gal. road oil, to Standard Oil Co. of Indiana, 1937 Southeast 4th St., Minneapolis at $0.06 per gal. Noted May 6.

Pipe—Los Angeles, Calif.—To Republic Supply Co., 2122 East 7th St., 30,000 ft. ½ in. galvanized wrought steel pipe at $5.08 per cu. ft., and 33,000 ft. 1 in. $8.87.

Cast Iron Pipe, etc. — Toronto, Ont. — York Twp., c.i. pipe, to Natl. Iron Corp., foot of Cherry St., $26,600; hydrants and gate valves, to J. T. Hepburn, Van Horne Ave., $1,295 and $1,922 respectively; hydrants, to Bowden Machine Co., Sterling Rd., $1,298; road oil, to McColl Bros., Ltd., 114 Don Esplanade, $18,800; road oil application, to Municipal Road Spraying & Oiling Co., Confederation Life Bldg., $4,800; lead pipe and pig lead, to Canada Metal Co., 39 Fraser Ave., $10,665; iron castings, to Dominion Wheel & Foundries, Ltd., 131 Eastern Ave., $15,975; brass fittings, to T. McAvity & Sons, Ltd., 48 Lombard St. $4,005, to Empire Brass Mfg. Co., 110 Adelaide St. W. $1,055, to Canadian Rumely Co., Ltd., 48 Abell St. $2,700, and Mueller, Ltd., Sarina, Ont. $2,270. Grand total $91,385.

See proposal advertising on page 168, Advertising Section



Power for lifting heavy loads

This National Hoist, which handles four thousand pounds at two hundred feet per minute, must perform consistently in severe and continuous service. A Buda engine furnishes the necessary dependable power.

The National Hoisting Engine Company, Harrison, New Jersey, is one of nine leading makers of hoists who have selected Buda engines as standard equipment.

This dominance in the hoist field is illustrative of Buda's leadership in the industrial field. Buda engines are standard for over thirty different power applications, which include the following:

Arc Welding Sets	Cranes	Locomotives	Rail Cars
Bridges	Ditchers	Logging Machines	Shovels
Compressors	Generating Sets	Mining Machinery	Stone Crushers
Concrete Mixers	Hoists	Oil Pumping Rigs	Turn Tables
Conveyors	Loaders	Pumps	Well Drills

Buda industrial engines are built in seven sizes, ranging from 20 to 87 **Horse Power.** Write for specifications.

THE BUDA COMPANY, HARVEY CHICAGO SUBURB ILLINOIS
ESTABLISHED 1881

BUDA
The
ENGINE

Buy only genuine Buda Parts for your Buda engine

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Duplicate water works system, Toronto, Ont., plans new duplicate system, $14,317,000.

Levees, etc., Dallas Co., Dallas, Tex., plans work amounting to $6,000,000.

Hydro-electric development, Aberdeen, Wash., plans development, $2,000,000 to $5,000,000.

Storm drain system, Los Angeles, Calif., plans 9 mi. rein.-con. box, $3,000,000.

Gas pipe line, Wichita Falls, Tex., Lone Star Gas Co. plans 230 mi. line, $2,500,000.

Schools, Rochester, N. Y., Bd. Educ. having plans prepared. Total, $2,800,000.

Hotel, Oakland, Calif., Drake Investment Co. having plans prepared, $2,250,000.

Theatre and office, Newark, N. J., Beacon Theatre having plans prepared, $1,500,000.

Schools, Buffalo, N. Y., Bd. of Educ. plans schools and additions, $1,545,000.

Hotel and office, Corpus Christi, Tex., J. E. Garrett & associates having plans prepared, $1,250,000.

Administration, community, etc., Boston, Mass., Congregation of Adath Israel Temple having plans prepared, $1,000,000.

Hospital, Santa Monica, Calif., Pacific Beach Hospital, Inc., having preliminary plans prepared, $1,000,000.

Club and hotel, Excelsior Springs, Mo., L. L. Brown et al. having plans prepared, $1,000,000.

Apartment, store and office, St. Louis, Mo., Local Syndicate having plans prepared, $1,000,000.

Cement plant, Universal, Pa., Universal Portland Cement Co. having plans prepared, $1,000,000.

School, Indianapolis, Ind., Bd. School Comrs. having sketches made, $1,000,000.

Club, San Francisco, Calif., Interests headed by J. B. Detwiler having preliminary plans prepared, $1,000,000.

Club, Memphis, Tenn., Elko Club having plans prepared, $1,000,000.

Lodge, Dallas, Tex., Masonic Temple Corp. plans lodge, $1,000,000.

Hotel, Houston, Tex., Suburban Development Co. having plans prepared, $1,000,000.

Bids Wanted

Hotel, Regina, Sask., June 8, Ross & Macdonald, $2,500,000.

Apartment, Chicago, Ill., R. S. DeGoyler & Co. taking bids, $2,500,000.

Road work, Alice, Tex., June 15, F. E. Hess, engr. Jim Wells Co., $1,200,000.

Theatre, Pittsburgh, Pa., June 9, Loew Theatrical Enterprises, $1,000,000.

Sewer work, St. Louis, Mo., June 22, Bd. Pub. Serv., $1,100,000.

Contracts

Cement plant, La Salle, Ill., Central States Eng. Co. to Cowen Eng. Co., $3,000,000.

City Hall, Philadelphia, Pa., Dept. Pub. Wks. to several contracts, total, $2,139,456.

Office, Boston, Mass., Fort Point Building Trust to James Stewart & Co., $2,000,000.

Piers, Poughkeepsie, N. Y., Supt. Pub. Wks. to Blakeslee & Rowlins Corp., $1,899,925.

Hospital, Brooklyn, N. Y., St. Johns Hospital to W. Kennedy Constr. Co., $1,500,000.

Classified Index of Bids Wanted

Waterworks

Bids close — *See Eng. News-Record*

June 7 Vermilion, O. ..... May 20
June 7 Rahway, N. J. ..... May 20
June 7 Crosby, N. D. ..... May 20
June 7 Springville, Calif. ..... May 27
June 7 Crenshaw, Miss. ..... May 27
June 7 West Roxbury (Boston P. O.), Mass. ..... June 3
June 7 Trafalgar, Ont. ..... June 3
June 8 Illinois ..... May 27
June 8 Phila., Pa. ..... June 3
June 8 Waterford, Wis. ..... June 3
June 9 Cleveland, Ohio ..... June 3
June 10 Sonyea, N. Y. ..... May 27
Adv. May 27 and June 3.
June 10 Bethel, Conn. ..... June 3
Adv. May 27 and June 3.
June 11 Long Island City, N. Y. ..... June 3
June 11 Flint, Mich. ..... June 3
June 15 Spiro, Okla. ..... June 3
June 15 Wheeling, W. Va. ..... June 3
Adv. May 27 and June 3.
June 16 Newark, N. J. ..... June 3
Adv. June 3.
June 19 Gulfport, Miss. ..... June 3
June 21 Okmulgee, Okla. ..... June 3
Adv. May 27 and June 3.

Sewers

June 7 Crosby, N. D. ..... May 20
June 7 Rochester, Minn. ..... June 3
June 8 St. Louis, Mo. ..... May 13
June 8 Lyndonville, N. Y. ..... May 20
June 8 Cincinnati, O. ..... June 3
June 8 Sharon, Pa. ..... June 3
June 9 Sibley, Mich. ..... June 3
June 10 Mamaroneck, N. Y. ..... May 27
Adv. May 27 and June 3.
June 10 Dorchester (Boston P. O.), Mass. ..... June 3
June 14 Ojai, Calif. ..... May 27
June 14 Lesueur Center, Minn. ..... June 3
June 15 Syracuse, N. Y. ..... June 3
Adv. June 3.
June 22 St. Louis, Mo. ..... June 3
July 6 Lynn, Mass. ..... June 3
Adv. June 3.

Waste Disposal

June 4 New Dorp (sta. Staten Island), N. Y. ..... May 27
June 8 Trenton, N. J. ..... May 27
June 8 Gulfport, Fla. ..... May 27
June 8 Peru, Ind. ..... June 3
June 21 Woodlawn, Pa. ..... June 3
Adv. June 3.
June 25 Louisville, Ky. ..... June 3
Adv. June 3.

Bids close — *See Eng. News-Record*

Bridges

June 4 Pennsylvania ..... May 27
June 4 La Crosse, Wis. ..... May 27
June 7 Anderson, Ind. ..... June 3
June 8 Conway, Mass. ..... June 3
June 8 Cohoes, N. Y. ..... May 27
Adv. May 27 and June 3.
June 8 South Dakota ..... May 27
June 8 Massachusetts ..... May 27
June 8 Boston, Mass. ..... June 3
June 8 Massachusetts ..... June 3
June 9 Illinois ..... May 27
June 9 North Carolina ..... June 3
June 11 Saginaw, Mich. ..... June 3
June 14 Huntington, W. Va. ..... May 27
June 16 Conway, S. C. ..... June 3
Adv. June 3.
June 18 Standish, Mich. ..... June 3
June 18 Cincinnati, Ohio ..... June 3
June 21 Kentucky ..... June 3
June 21 New Jersey ..... June 3
Adv. June 3.
June 25 Roanoke, Va. ..... June 3
Adv. June 3.

Excavation, Drainage, Irrigation, Levees, River and Harbor

June 4 Albany, N. Y. ..... May 13
Adv. May 13 to June 3.
June 8 Springfield, Ill. ..... May 20
June 15 Clewiston, Fla. ..... May 27
June 15 St. Louis, Mo. ..... May 13
June 21 West Palm Beach, Fla. ..... June 3
Adv. June 3.

Streets and Roads

June 4 Akron, O. ..... May 27
June 4 Cincinnati, O. ..... May 27
June 4 White Plains, N. Y. ..... May 27
June 4 Columbus, Kan. ..... May 13
June 5 Boston, N. Y. ..... June 3
June 5 Oakbank, Man. ..... June 3
June 7 Lackawanna, N. Y. ..... June 3
June 7 Tonawanda, N. Y. ..... June 3
June 7 Salem, Ind. ..... June 3
June 7 Monroe, Mich. ..... May 27
June 7 Akron, O. ..... May 13
June 7 Salina, Kan. ..... May 13
June 7 La Porte, Ind. ..... May 27
June 7 Chicago, Ill. ..... May 27
June 7 Tunica, Miss. ..... May 27
June 7 Curwensville, Pa. ..... May 27
June 7 Euclid, Ohio ..... June 3
June 7 Milwaukee, Wis. ..... June 3
June 7 Aberdeen, S. D. ..... June 3
June 7 Kennett, Mo. ..... June 3

Bids close — *See Eng. News-Record*

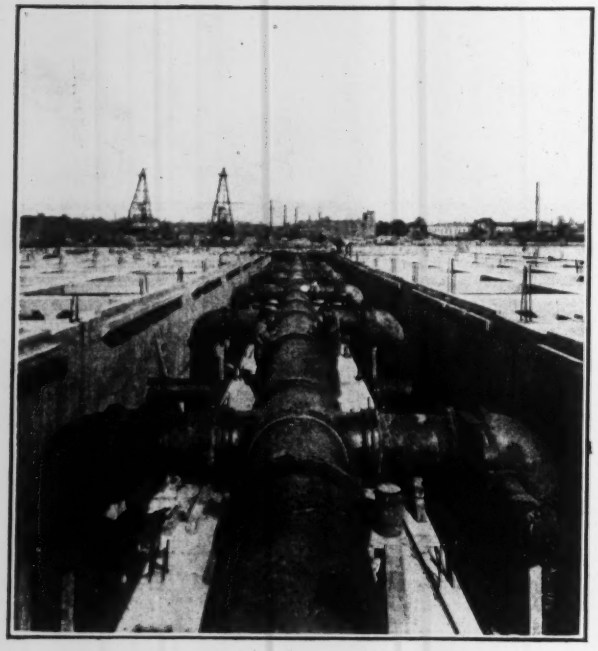
June 7 Rochester, Minn. ..... June 3
June 7 North Bay, Ont. ..... June 3
June 7 Abingdon, Va. ..... June 3
June 8 Crown Point, Ind. ..... May 27
June 8 Maryland ..... May 27
Adv. May 27 and June 3.
June 8 Wabash, Ind. ..... May 13
June 8 Long Island City, N. Y. ..... June 3
June 8 St. Louis, Mo. ..... May 13
June 8 Eldorado, Kan. ..... May 13
June 8 St. Louis, Mo. ..... May 20
June 8 Lakewood, N. J. ..... May 20
June 8 Warsaw, Ind. ..... May 20
June 8 Dover, N. J. ..... May 20
June 8 Virginia ..... May 27
June 8 Muskegon, Mich. ..... June 3
June 8 Elkhorn, Wis. ..... June 3
June 8 New London, Wis. ..... June 3
June 8 Boston, Mass. ..... June 3
June 8 Massachusetts ..... June 3
June 8 Chicago, Ill. ..... June 3
June 9 Illinois ..... May 27
June 9 Delaware ..... May 20
June 9 Harrison, Mich. ..... May 20
June 9 Freehold, N. J. ..... May 27
Adv. May 27 and June 3.
June 9 Illinois ..... June 3
June 9 Baltimore, Md. ..... June 3
June 10 Coldwater, Kan. ..... May 27
June 10 Muskogee, Okla. ..... May 27
June 10 Tracy, Calif. ..... June 3
June 10 Sarnia, Ont. ..... June 3
June 11 Seymour, Tex. ..... May 27
June 11 Tennessee ..... May 27
June 11 Coldwater, Kan. ..... May 13
June 11 Fellsmere, Fla. ..... May 13
June 11 Olathe, Kan. ..... May 13
June 11 Dayton, Ohio ..... June 3
June 11 New York ..... June 3
Adv. May 27 and June 3.
June 11 Houston, Miss. ..... June 3
June 12 Lake Charles, La. ..... May 20
June 12 Ft. Scott, Kan. ..... June 3
June 12 Waterloo, Ont. ..... June 3
June 14 Groveton, Tex. ..... June 3
June 14 New Jersey ..... June 3
Adv. June 3
June 14 Southmont (Johnstown P. O.), Pa. ..... June 3
June 14 Plymouth, Ind. ..... June 3
June 14 Modesto, Calif. ..... June 3
June 14 Moundsville, W. Va. ..... May 27
June 14 San Rafael, Calif. ..... June 3
June 15 Woodville, Miss. ..... May 27
June 15 Hillsboro, Tex. ..... May 27
June 15 Gonzales, Tex. ..... May 27
June 15 Marlin, Tex. ..... May 27
June 15 Duluth, Minn. ..... May 20
June 15 Louisiana ..... May 20
June 15 Anderson, Ind. ..... May 13

See proposal advertising on page 174

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Used by
City of Buffalo, N. Y. For Over 20 Years



Pipe gallery Buffalo's new filter plant; joints made with Leadite.

Buffalo is proud of its water works system.

It is proud of its new modern filter plant just completed and representing an investment of millions of dollars.

That is why the City of Buffalo wanted the Convention of the American Water Works Association to meet there this year, June 7th to 11th.

They wanted other water works men thruout the country to see what they have accomplished.

Buffalo has laid about 40 miles of c.i. bell and spigot water mains with Leadite.

They have tested and used Leadite for over 20 years.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%.

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

Visit Our Booth at the American Water Works Convention

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids close — *See Eng. News-Record*

June 15 Alice, Tex. .....June 3
June 15 Washington .....June 3
June 15 Easton, Md. .....June 3
June 15 New York .....June 3
Adv. May 27 and June 3.
June 16 Florida .....June 3
June 16 Wildwood, N. J. .....May 27
Adv. May 27 and June 3.
June 17 Cross Roads (Felton P. O.), Pa. .....May 27
June 17 Felton, Pa. .....May 27
June 17 New Brunswick, N. J. .....June 3
June 17 Flemington, N. J. .....June 3
June 18 Kansas City, Tex. .....June 3
June 21 Kentucky .....June 3
June 21 Martinez, Calif. .....June 3
June 21 New Jersey .....June 3
Adv. June 3.
June 22 Duluth, Minn. .....May 20
June 22 Pennsylvania .....June 3
Adv. June 3.
June 23 Pennsylvania .....June 3
Adv. June 3.
June 23 Delaware .....June 3
Adv. June 3.
June 28 Kentucky .....June 3
June 29 Louisiana .....June 3
July 6 Morgantown, W. Va. .....June 3
Adv. June 3.
July 7 Vero Beach, Fla. .....June 3
Adv. June 3.

Buildings—Commercial

June 7 Cleveland, Ohio .....June 3
June 8 Duluth, Minn. .....May 6
June 8 Regina, Sask. .....June 3
June 8 Milwaukee, Wis. .....June 3
June 8 St. Cloud, Minn. .....June 3
June 9 Pittsburgh, Pa. .....June 3
June 10 Baltimore, Md. .....June 3
June 10 Albany, N. Y. .....June 3
June 10 Racine, Wis. .....June 3
June 11 Toms River, N. J. .....May 27
Adv. May 27 and June 3.
June 14 New York, N. Y. .....Apr. 29
June 14 San Luis Obispo, Calif. .....May 27
June 15 Memphis, Tenn. .....June 3
June 17 Charlotte, N. C. .....June 3
June 22 St. Louis, Mo. .....June 3
July 1 Texarkana, Tex. .....Apr. 22
July 7 Sullivan, Ind. .....June 3
Sept. 1 Vancouver, B. C. .....Apr. 22

Buildings—Industrial

June 9 West Easton (Easton P. O.), Pa. .....June 3
June 10 Chicago, Ill. .....June 3
June 12 Laurelton, Pa. .....June 3

Buildings—Educational, Religious

June 4 Akron, O. .....May 13
June 7 Chicago, Ill. .....June 3
June 8 Brooklyn, N. Y. .....May 27
June 9 Los Angeles, Calif. .....June 3
June 9 Scranton, Pa. .....June 3
June 10 Mitchell, Neb. .....June 3
June 10 Medford (br. Boston), Mass. .....May 27
June 11 Wildwood, N. J. .....June 3
June 12 Urbana, Ill. .....May 27
June 14 Little Rock, Ark. .....June 3
June 14 Downey, Calif. .....June 3
June 15 Lincoln, Neb. .....Jun 3
June 15 Cleveland, O. .....May 27

Bids close — *See Eng. News-Record*

June 15 Cleveland Heights (Warrensville P. O.), Ohio .....June 3
June 22 Rocky River, O. .....June 3

Federal Government Work

June 7 Operating Machinery—Louisville, Ky. .....May 13
Adv. May 13 to June 3.
June 7 Breakwater—Presque Isle, Mich. .....May 20
June 8 Hospital, etc.—North Chicago, Ill. .....May 6
June 8 Mess Hall, etc.—Devils Lake, N. D. .....May 27
June 8 Earthwork—New Orleans, La. .....June 3
June 9 Compass Station — Empire, Ore. .....May 13
June 9 Gates—Pittsburgh, Pa. ...May 13
Adv. May 13 to June 3.
June 9 Boilers — Terre Haute, Ind. .....May 13
June 9 Chimney — Mare Island, Calif. .....May 20
June 9 Dredging—Quantico, Va...May 27
June 10 Dredging—San Diego, Calif. .....May 27
June 10 Laboratory—Fort Benning, Ga. .....May 20
Adv. May 20 to June 3.
June 10 Tower—New York, N. Y..May 20
Adv. May 20 to June 3.
June 10 Power Plant, etc.—Hot Springs, Ark. .....May 20
June 11 Dredging—Green Bay, Wis.May 20
Adv. May 20 to June 3.
June 11 Remodeling—Plattsburg, N. Y. .....May 27
Adv. June 3.
June 11 Lumber, etc.—Wash., D. C.June 3
June 12 Docking Caissons—Huntington, W. Va. .....May 20
June 12 Road—Idaho .....June 3
June 14 Hangar—Wash., D. C.....May 20
June 14 Hulls, etc.—Louisville, Ky. .....May 20
Adv. May 20 to June 3.
June 14 Roadways—Baltimore, Md.June 3
June 15 Barn, etc. — St. Cloud, Minn. .....May 20
Adv. May 20 to June 3.
June 16 Houses—Pittsburgh, Pa...May 20
Adv. May 20 to June 3.
June 16 Roads—Great Lake (br. Waukegan), Ill. .....June 3
June 17 Boilers, etc.—Winona, Minn. .....May 27
Adv. June 3.
June 18 Houses—Pittsburgh, Pa...May 27
Adv. May 27 and June 3.
June 18 Remodeling—Yakima, Wash. .....June 3
June 18 Plumbing, etc.—St. Louis, Mo. .....June 3
June 21 Hospital, etc.—Palo Alto, Calif. .....May 6
Adv. May 20 to June 3.
June 21 Water System — Ft. Warren, Mass. .....May 27
June 21 Dam—Pittsburgh, Pa.....May 27
Adv. May 27 and June 3.
June 21 Administration, etc.—Dayton, O. .....May 27
Adv. May 27 and June 3.
June 21 Extension—Orlando, Fla...June 3

Bids close — *See Eng. News-Record*

June 21 Foundations — Dayton, Ohio .....June 3
Adv. June 3.
June 22 Dredging—Chicago, Ill.....May 27
Adv. May 27 and June 3.
June 22 Roads and Walks—Rutland Heights, Mass. .....June 3
June 22 Road—Livermore, Calif....June 3
June 22 Water Tank—Dayton, O...June 3
Adv. June 3.
June 22 Engines, etc.—St. Louis, Mo. .....June 3
Adv. June 3.
June 22 Equipment—Hot Springs, Ark. .....June 3
June 23 Hulls—St. Louis, Mo.....June 3
Adv. June 3.
June 23 House—Pittsburgh, Pa.....June 3
Adv. May 27 and June 3.
June 24 Dredging—Miami, Fla.....June 3
Adv. May 27 and June 3.
June 28 Kitchen, etc.—Livermore, Calif. .....May 27
June 28 Dredging—New York, N. Y. .....June 3
Adv. June 3.
June 28 Breakwater — Milwaukee, Wis. .....June 3
Adv. June 3.
June 29 Dredging — Wilmington, Del. .....June 3
Adv. June 3.
June 29 Lock House—Huntington, W. Va. .....June 3
Adv. June 3.
July 2 Dredging — New Haven, Conn. .....June 3
Adv. June 3.
July 7 Motors, etc.—Wash., D. C..May 13
July 15 Dredging—Hawaii .....May 13
Adv. May 13 to June 3.

Unclassified

June 7 Heating and Ventilating—Detroit, Mich. .....May 20
June 7 Station Finish Work—New York, N. Y. .....May 27
June 8 River Shafts—New York, N. Y. .....June 3
June 9 Culvert, etc.—New Rochelle, N. Y. .....May 20
Adv. May 20 to June 3.
June 10 Boilers, Stokers, etc.—Danville, Pa. .....June 3
June 11 Subway — Brooklyn, N. Y. .....June 3
June 15 Wharf—Cap-de-la-Madeleine, Que. .....June 3
June 16 Subway—Phila., Pa.....May 27
June 16 Sanitary Work, etc.—Utica, N. Y. .....May 27
June 23 Subway—Phila., Pa.....June 3
June 25 Air Compressor—Farmindale, N. Y. .....June 3
Adv. June 3.
Sept. 30 Crane Gantries, etc.—Otahulu, New Zealand .....May 20

Materials

June 4 Cement, etc.—St. George, N. Y. .....May 27
June 4 Gas Pipe, etc.—Richmond, Va. .....May 20
June 8 Creosoted Blocks—Chicago, Ill. .....June 3
June 9 Cable—Boston, Mass.....June 3
June 11 Gravel—Louisiana .....May 20

News of New Work

Waterworks

Proposed Work

Conn., Willimantic—Plans improving and enlarging water supply. $125,000 appropriated. J. T. Tracy, mayor.

N. J., Hammonton — Common Council plans 6 in. mains in Bway., Valley and Woodman Aves., etc. $24,000. Engineer not selected.

Md., Hagerstown—Rejected bids May 18, filtration plant and pumping station. G. L. Bean, Abbott Bldg., Phila., Pa., engr.

S. C., Chester — Voted $200,000 bonds waterworks and sewers in various streets.

Ind., Kentland—Penick & Ford plan rein.-con. and steel water settling basin, centrifugal pumps, c.i. pipe and fittings, etc. $25,000. F. Friedline, Kentland, engr.

Ill., Niles Center—City takes bids about June 26, 200,000 gal. capacity steel tank on 100 ft. tower, 4 ft. riser, etc. Consoer, Older & Quinlan, 140 South Dearborn St., Chicago, engrs.

Ill., Olney — Plans waterworks plant, incl. pumping equipment, distribution mains, etc. Edward Flad & Co., 1312 Chemical Bldg., St. Louis, Mo., engrs. This corrects report in Apr. 29 issue.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Ill., Riverside—See "Streets and Roads."

Mich., Detroit — Dept. Water Supply, making plans two 1½ m.g. elevated steel water tanks. G. H. Fenkell, 176 East Jefferson Ave., genl. mgr.

Minn., Litchfield—Making plans approximately 5 mi. mains, etc., in various streets. $40,000. M. Mortenson, city clk.

Kan., Kenorado—Election June 7, $30,000 bonds, waterworks. Haskins & Crawford, 824 Finance Bldg., Kansas City, Mo., engrs.

Mo., Pleasant Hill — Defeated $21,000 bonds, improving waterworks. W. B. Rollins & Co., 521 Ry. Exch. Bldg., Kansas City, engrs. Noted May 6.

Mo., Seymour — Defeated $35,000 bonds, improving waterworks and distribution system. Noted Apr. 29.

Ark., Foreman — Making preliminary plans complete waterworks and distribution system. $50,000. Engineer not selected.

Tex., Olmito (near Brownsville) — A. Parker Securities Co., Brownsville plans waterworks system at new town site, incl. large reservoir, settling basin, etc., here. $120,000.

Tex., Wichita Falls — Election June 12, extending mains, etc., in various streets. $100,000. F. M. Regly, Wichita Falls, engr.

Okla., Boise City—Voted $18,000 bonds, new waterworks, incl. 10,600 ft. 4 and 6 in. c.i. mains, deep well pump, etc. C. Margo, city clk. Engineer not selected.

Okla., Cherokee — Voted $37,500 bonds waterworks improvements, incl. deep well and centrifugal fire pump, 200 hp. Diesel

Constr. News page 342

Saving Construction Time

The Mayflower crossed the ocean in 96 days. Today the Leviathan makes the trip in less than a week.

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Concrete for Permanence

Waterworks (Continued)

on engine, etc. B. Davis, city clk. Engineer not selected. Noted Apr. 29.

Calif., Ft. Bragg—Making estimates extending water and fire protection systems. $15,000 or more.

Calif., Glendale—See "Sewers."

Calif., Sacramento—Plans election $350,000 bonds, 8 additional filtration beds and purchasing equipment for waterworks; also $550,000, extending mains and installing fire hydrants on various streets. A. J. Wagner, city engr. Noted May 13.

Calif., Santa Ana — Orange Co. Water Dist. 3, making specifications improving water system, 6,720 lin.ft. 4 and 6 in. c.i. pipe, 1,000 lin.ft. 2 in. steel pipe, deep well pump, etc. W. K. Hillyard, Santa Ana, engr. Noted May 13.

Ont., Toronto—Made plans new duplicate waterworks, incl. 7,550 ft. 10 ft. tunnel and pipe into 50 ft. water, pumping station, filtration plant and 12,000,000 imp. gal. reservoir at Victoria Park, 7 ft. tunnel 30,500 ft. long from Victoria Park Pumping Station to existing pumping plant at John St., 6 ft. tunnel 19,500 ft. long from present pumping plant at John St. to Sunnyside, new high pressure pumping station at Sunnyside, 50,000,000 rein.-con. covered reservoir at St. Clair Ave. and Spadina Rd., high pressure mains from Victoria Park pump house from Sunnyside. $14,317,000. W. Gore, Confederation Life Bldg., Toronto, and H. G. Acres, Niagara Falls, consult. engrs. Noted Jan. 22.

Bids Desired

Mass., West Roxbury (Boston P. O.) — June 7, by Dept. Pub. Wks., Boston, laying and relaying pipes in Bellaire, Glenburnie, Peak Hill and Ravanna Rds., Burnside and Cerdan Aves., $15,000. J. H. Sullivan, comr.

Conn., Bethel—June 10, by Town Selectmen, at office Town Clerk, Fountain Pl., improving water supply. N. S. Hill, Jr., 112 East 19th St., New York City, consult. engr.; adv. E. N.-R. June 3.

N. Y., Long Island City — June 11, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., mains in Oakwood Pl., 93rd Rd., Davenport, Edmore, Fairbury, and 93rd Aves., Gettysburg, 240th and 242nd Sts., etc.

N. J., Newark—June 16, at office T. L. Raymond, dir. Dept. Pub. Affairs, City Hall, Echo Lake dam, etc.; adv. E. N.-R. June 3.

Pa., Phila.—June 8, by Dept. Pub. Wks., Bureau of Water, pump and piping for Torresdale High Service Station, Contr. 795; sub-structure for mechanical filters at Belmont Filter Plant, 180 x 200 ft., rein.-con., incl. clear well, chlorine house, wash water tank, steel tank supports and appurtenances, etc., Contr. 801; electric pumping and auxiliary equipment at Queen Lane Pumping Sta., Contr. 818; railroad siding Lardners Point Pumping Sta., Contr. 825; and 12 in. mains in Chestnut Hill, Contr. 826. G. H. Biles, dir.

W. Va., Wheeling — June 15 (extended date), extending pipe lines. H. C. Lane, city clk.; adv. E. N.-R. June 3.

Miss., Gulfport—June 19, by Mayor and City Comrs., rein.-con. storage reservoir and brick building. H. D. Shaw, city engr. Noted May 27.

O., Cleveland—June 9, by Comrs. Cuyahoga Co., main in Columbia and Butternut Ridge Rd., Impvt. 753. F. Williams, Court House, engr.

Mich., Flint—June 11, by F. D. King, city clk., 3rd Ave. Pumping Station, incl. concrete, brick and steel building with c.i. piping, valves, gates, etc., Contr. S. D. 3.

Wis., Menomonie — See "Contracts Awarded."

Wis., Waterford—June 8, by L. E. Gulick, village clk., one 150 g.p.m. belt driven, deep well, double stroke plunger pump.

Okla., Okmulgee—June 21, at office Commission Finance, A. S. Baker, comr., 22,000 ft. 36 in. pipe line. L. F. Harza, 919 Monadnock Bldg., Chicago, Ill., consult. engr.; adv. E. N.-R. June 3.

Okla., Spiro—June 15, by W. R. Gamble, city clk., raising present dam and spillway, cleaning reservoir, new filtration plant and electric centrifugal pumps, etc. $40,000. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs. Noted Apr. 1.

Ont., Trafalgar—June 7, by S. H. Albertson, clk. Trafalgar Twp., 3,600 ft. 6 in. c.i. mains, gate valves, etc. in various streets, Contrs. A, B and C. $15,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Bids Received

New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., May 28, New York City, water supply conduit, strengthening existing conduit, etc., of Brooklyn Water supply, in Kings and Queens Counties, from Triest Contg. Corp., 250 Park Ave., New York City, $584,580. Noted May 20.

N. J., Trenton — City Comn., May 21, complete machinery for Paul Ave. Station and unit for Pennington Ave. Station, from C. P. Bainbridge, Hamilton Square, $8,026 and $2,746 respectively; high service station, from W. Hicks, 19 South Westfield Ave., $7,500.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, May 25, 50,000 lb. pigiead, Contr. 813, from N. Trotter, 36 North Front St., $3,985; flow meters, Contr. 416, from P. B. Hyatt Co., 5 South 18th St., $6,092; two 50 ton capacity steel cars, Contr. 819, from J. B. McHugh, Jr., 1617 Race St. $6,390; and electric cables, Contr. 820, from Standard Underground Cable Co., North American Bldg., $1,685. Noted May 20.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., May 20, wrecking buildings west of engine room and constructing concrete foundation and retaining wall for 60 x 176 ft. brick, concrete and steel addition to North Point Pumping Station, from Siderits Constr. Co., 1591 2nd St., $60,700. Noted May 13.

Calif., Laguna Beach—Laguna Beach Co. Water Dist., P. O. Box 647, Reservoir 1, 7,600 cu.yd. excav., 610 cu.yd. rein.-con. 12,900 sq.ft. concrete in floor, etc., from O. Moore, Santa Ana, $29,435; Reservoir 2, 2,800 cu.yd. excav. 338 cu.yd. rein.-con., 6,230 sq.ft. rein.-con. in floor, etc., from Nead Constr. Co., 119½ West Anaheim St., Wilmington, $12,876; furnishing (Schedule 1), 2 deep well turbine pumps, from B. Jackson Pump Mfg. Co., 6th and Carlton Sts., Berkeley, $2,120; and (Schedule 2), 2 centrifugal pumps, 175 ft. head and 2 with 130 ft. head and 1 with 330 ft. head, from Pacific Pump Wks., 350 Bickett St., Huntington Park. Noted May 20.

Calif., Pasadena — City, Calaveras St. reservoir, 22,592 cu.yd. excav., and 89,778 ft. concrete lining, from W. Warne, Transportation Bldg., Los Angeles, $31,998. Noted May 20.

Contracts Awarded

Me., Rumford—Rumford & Mexico Water Dist., concrete distributing reservoir, to J. H. Kerr, Rumford. Engrs. est. $40,000 or more.

N. J., South Belmar—Boro Council, 6 mi. 6, 8 and 10 in. mains, to W. E. Sexton, Jericho Turnpike, Mineola, N. Y., $64,431. Noted May 6.

N. J., Union Beach (br. Keyport)—Water Com. Boro Council, A. Cowling, clk. Union Fire Co., Union Ave., approximately 16 mi. 4- to 12-in. pipe line, to W. E. Sexton & Co., Mineola, $193,000. Former contract rescinded. Noted May 20.

Pa., Huntingdon — Water Comn., constructing 3 m.g. reservoir, etc., to Pitt Constr. Co., Inc., Empire Bldg., Pittsburgh, $57,073. Noted Apr. 15.

Ill., Kenilworth—Bd. Local Impvts., J. C. Murray, pres., improving and extending mains in various streets, incl. 8,620 ft. 6- to 12-in. c.i. pipe, ten 6 and 8 in. double gate valves, 17,500 lb. c.i. pipe fittings, etc., to Highway Constr. Co., Highland Park., $40,555.

Wis., Kohler — W. Nesemann, village clk., 8,900 ft. 6 in. c.i. pipe, to Natl. Cast Iron Pipe Co., 12 South Michigan Blvd., Chicago, Ill., $16,212; laying above pipe, to R. J. Wilson Co., 107 West College St., Appleton, $9,065; and hydrants and valves, to Chapman Valve Mfg. Co., 650 West Lake St., Chicago, Ill., $1,104 and $1,317 respectively. Grand total $27,698. Noted May 13.

Wis., Menomonie—F. W. Rowe, city clk., will construct 225,000 gal. rein.-con. reservoir, by day labor. To exceed $15,000. Noted May 13.

Tex., Houston — For 15 m.g. concrete covered storage reservoir, to Standard Constr. Co., 337 Humble Bldg., $152,000. Noted Aug. 27.

Calif., Glendale—Furnishing 188 tons 16 in. Class "B" c.i. pipe, to Nicoll Co., Rialto Bldg., San Francisco; 700 tons 6, 8 and 12 in., to U. S. Cast Iron Pipe Co., Monadnock Bldg., San Francisco; 245 tons 24 in., to Grinnell Co., 5th and Brannan Sts., San Francisco and 217 tons 4 in., to Natl. Cast Iron Pipe Co., Los Angeles.

Calif., Glendale—See "Sewers."

Calif., San Andreas—Calaveras Co., A. W. Poe, clk., 100,000 gal. rein.-con. tank and 6,925 ft. riveted slip joint steel pipe, County Hospital, to Hertzig Bros., San Andreas, $10,724. Noted Mar. 25.

B. C., Trail—For 22,900 ft. c.i. pipe, to Evans Coleman & Evans Ltd., foot of Columbia Ave., Vancouver, $15,000.

Que., St. Lamberts—City Council, pumps and pumping equipment to G. Archamhanet Ltd., 382 Clarke St., Montreal, $74,941.

Sewers

Proposed Work

Mass., Lexington—Plans sewerage works in Massachusetts Ave. $29,800 appropriated. Private plans.

S. C., Chester—See "Waterworks."

Tenn., Dresden — Making plans new sewerage system. $60,000. Long & Co., Colcord Bldg., Oklahoma City, Okla., engrs.

Mich., Mt. Clemens—Made plans Lawndale sewerage system and Silver St. sewer from 5th St. S., 12,064 ft. 10- to 30-in. pipe, etc.

Mich., Muskegon Heights (Ind. br. Muskegon)—Takes bids about July 1, 5,049 ft. 15- to 42-in. rein.-con., vitr. clay or segmental block sewer in Oakwood Ave. $44,000. G. A. Gamble, City Hall, engr. Noted Apr. 29.

Mich., Muskegon Heights (Ind br. Muskegon)—Takes bids about July 1, 6,844 ft. 24- to 72-in. rein.-con., vitr. clay or segmental block sewer in Terrace St. $114,000. C. A. Gamble, City Hall, engr.

Ill., Chicago—See "Streets and Roads."

Wis., Milwaukee—Metropolitan Sewerage Comn., J. J. Fowles, secy., 508 Market St., soon takes bids 4.5 mi. main sewer tunnel in Grand Ave., etc., Wauwatosa Twp.

Wis., Shullsburg—Making plans sewerage system and septic tank. To exceed $25,000. W. F. Reichardt, 109 Main St., Watertown, engr.

Wis., Wauwatosa—Bd. Pub. Wks., A. V. Brigham, secy., rejected bids Apr. 20, storm sewers in West North Ave., etc. Will readvertise. J. E. Lowther, City Hall, engr. Noted May 13.

Minn., Pipestone—Making plans sewage disposal plant and outlet sewer in various streets. $25,000. W. E. Buell Co., 205 Davidson Bldg., Sioux City, Ia., engr.

Minn., Waverly—Making plans sanitary sewerage system and sewage disposal plant. $35,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, Ia., engr.

Tex., Dublin — Voted $25,000 bonds, improving sewer, etc. in various streets. Address Mayor.

Tex., Olmito (near Brownsville) — A. Parker Securities Co., Brownsville plans complete sewerage system, here. $125,000.

Okla., Wetumka—Voted $30,000 bonds, south side sewage disposal plant. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted May 13.

Calif., Alhambra — Plans 8- to 12-in. sewers, etc., in portions Hampden Terrace, Meridian and Ross Aves., etc. To exceed $25,000.

Calif., Glendale—Made plans 6 in. vitr. main sewers, and c.i. watermains, etc., in Chevy Chase Dr., Adams St., etc. To exceed $25,000. J. F. Johannsen, city engr.

Calif., Los Angeles—Making plans 9 mi. rein.-con. box from 7 x 11 ft. section 8 to 14 ft. and double 6½ x 12 ft., 17 mi. 24- to 96-in. rein.-con. pipe, east of Los Angeles city limits to Montebello. $3,000,000. F. Bates, Bradbury Bldg., engr.

Ont., Toronto—York Twp. soon takes bids 2,680 ft. 8 in. and up lateral and trunk sewer in Priscilla Ave., Jane and Dundas Sts. $34,768. F. B. Goedike, 40 Jarvis St., engr.

Bids Desired

Mass., Dorchester (Boston P. O.)—June 10, by Dept. Pub. Wks., Boston, sewers in Codman Hill Ave., Walk Hill, Courtland and Codman Sts., here. $25,000. J. H. Sullivan, comr.

Mass., Lynn—July 6, by Comn. Ways & Drainage, at office City Clerk and City Engineer, sewage pumping station and appurtenances. Morris Knowles, Inc., Engineers; adv. E. N.-R. June 3.

N. Y., Syracuse—June 15, at office Syracuse Intercepting Sewer Bd., City Hall, extending Canal Intercepting Sewer. H. J. Hamlin, secy.; adv. E. N.-R. June 3.

Pa., Sharon—June 8, by City, c/o F. S. Williams, clk., sewage disposal plant and pumping station, incl. settling tanks, sludge digestion tanks, sludge drying beds, ejector pit, etc. L. E. Burnside, city engr.

O., Cincinnati—June 8, by Comrs. Hamilton Co., 29,327 ft. 6- to 15-in. vitr. clay sewer, etc. in Sanitary Sewer 11, Dist. 3, (Beechwood and Edgemont Subdivision). $108,205. L. C. Boyatt, Court House, engr. Noted Apr. 15.

Mich., Sibley — June 9, by W. F. Von Moll, village clk., 14,398 ft. 10- to 42-in. vitr. and concrete sewers in various streets. R. A. Murdoch Co., 602 Transportation Bldg., Detroit, engrs.

Wis., Janesville — See "Contracts Awarded."

Constr. News page 343

THE LARGEST-SELLING MASON'S CEMENT IN THE WORLD

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Sewers (Continued)

Minn., Lesueur Center—June 14, by City, A. A. Tambornino, clk., sewage treatment plant and approximately 21,189 ft. 8- to 12-in. sewers, etc., in various streets. $50,000. L. P. Wolff, 903 Globe Bldg., St. Paul, consult. engr.

Minn., Rochester—June 7, by City, A. F. Wright, clk., extending sewerage system, incl. 10,850 ft. 8- to 24-in. trunk sewers in various streets. $41,338.

Mo., St. Louis — June 22, by Bd. Pub. Serv., 208 City Hall, Sects. B-2 and C, River Des Peres Project, incl. floodway channel between Southwest Ave. and point 1,000 ft. east of Macklind Ave., 40 ft. bottom and 50 ft. top width, under which sanitary sewer 8 x 5 ft. depth excavated through limestone approximately entire length, also retaining walls, lateral sewers, etc. $1,100,000. W. W. Horner, 300 City Hall, engr. Noted Feb. 18.

Tex., Ft. Worth — D. L. Lewis, city engr., taking bids sewers at Seminary Hill West, $31,000; at North Ft. Worth, $94,000; and in 8 various streets, $78,000, for City.

Tex., Houston—J. C. McVea, city engr., taking bids sanitary sewers in Ennis St. and Holman Ave., storm sewers in Isabella Ave., for City. $60,000.

Calif., Oceanside—J. H. Landes, city clk. taking bids 1,356 ft. 18 in., 2,080 ft. 16 in., 6,361 ft. 14 in., 4,597 ft. 12 in., 3,692 ft. 10 in., 33,026 ft. 8 in. and 27,132 ft. 6 in. vitr. pipe sewer, etc. R. L. Loucks, city engr. Noted April 15.

Ont., Toronto—See "Contracts Awarded."

Bids Received

N. Y., Brooklyn — J. A. Gulder, pres. Brooklyn Boro, Boro Hall, May 26, from R. Nazarro, Inc., 7101 Metropolitan Ave., sewers in 64th St. $6,184, 72nd St. $3,997, and 12th Ave. $3,265; from S. Guerriero, 124 66th St., East 17th St., $2,095; from Manmill Contg. Co., 2035 Douglass St., Ave. R., $25,540; and from A. W. Matarazzo, 1163 61st St., Linwood St. $2,945. Noted May 20.

Va., Richmond—R. K. Compton, dir. Pub. Wks., May 10, **(e. e. means engineer's estimate)**, 303 ft. rein.-con. precast pipe sewers and connections, etc., in Hamilton St., from J. C. Cheatwood, Vawter and Highland Aves., $10,264 e. .e $14,24; 894 ft. 30 and 45 in. in Decatur St. from H. D. Driscoll, Mutual Bldg., $15,877 e. e. $16,600; 3,232 ft. 30- to 48-in. precast rein.-con. sewer and laterals in Idlewood Ave., south of Cary, Belmont and Carrington Sts., from Hughes & Keegan, Real Estate Exch. Bldg., $32,674 e. e. $44,211; 6,824 ft. precast rein.-con. sewers, laterals and connections west of Belt line, portion of New Kent Rd., Reveille St. and Davis Rd., from W. J. McLane, 2402 Edgehill Rd., $175,859 e. e. $242,249; 998 ft. 60 in. two piece segmental block sewer and connections in Tobacco St., and 1,401 ft. in Riverview System, from A. G. Rolfe, 1009 Brook Rd., $15,438 and $16,650 respectively, e. e. $19,268 and $25,742 respectively. Noted Apr. 29.

Fla., Miami—City Comrs., 6,171 lin.ft. concrete and 1,399 lin.ft. vitr. sewers in Sewer Impvt. Dist. 192, from J. J. Quinn Co., O'Reilly Ave., Miramar, $164,824. Noted May 6.

O., Cleveland—Bd. Comrs. Cuyahoga Co., 8,300 ft. 8- to 54-in. sewer in Broadview and Brookpark Rds., Impvt. 75A, from Hanna & Michael Constr. Co., Huron-6th Bldg., brick $105,490, and rein.-con. $95,876. Noted May 13.

Mich., Detroit—Dept. Pub. Wks., 4,207 ft. concrete sewer in Jefferson Ave. and in city property from Jefferson Ave. to Detroit River, from Nash Bros., 10 South La Salle St., Chicago, Ill., $306,918. Noted May 13.

Mich., Muskegon — E. R. Cockerill, supt. Muskegon Co. Drains, Ruddiman Creek Drain, 3,342 ft. 18- to 24-in. vitr. clay and 2,044 ft. 96 in. monolithic concrete pipe, from Wolverine Eng. Co., Mason, $99,684. Engrs. est. $120,000. Noted Apr. 29.

Minn., St. Paul—A. E. Eggert, city purch. agt., constructing Trout Brook sewerage System, Contr. B, from Thornton Bros. Co., 318 Endicott Bldg., $238,887. Engrs. est. $250,000. Noted May 13.

Calif., San Fernando—City council, 54,807 ft. 8- to 16-in. concrete sewers, etc. in North Brand Blvd., from Bebeck & Brkich, 425 West 78th St., Los Angeles, $72,865.

Contracts Awarded

Mass., North Andover (Ind. br. Lawrence)—R. H. Ellis, engr., City Hall, sewerage works in various streets, to A. Daddario, River St., Hyde Park, for Town. Engrs. est. $25,000. Noted May 13.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, sanitary sewer in Van Name Ave. from Heusden St. to sewer easement 1,935 ft. southerly therefrom, to G. Orrico, 500 Britton Ave., Concord, 90% engrs. est. $7,344. Noted May 13.

Fla., Miami Beach — City Council, concrete sewers, Contr. 23-SR, to J. B. McCrary, Citizens & Savings Bank Bldg., Atlanta, Ga., $139,877; also Contr. 24-SR, to J. L. Kelley, Miami, $42,600. Noted Apr. 22.

O., Cleveland—Brick sewer in West 130th St., to N. Carroccio, 14109 Benwood Ave., $135,487. Noted Apr. 22.

O., Cleveland—Cuyahoga Co., 1,875 ft. 5 ft. segmental block sewer in Ridge Rd., to Winterbottom-Connelly Co., 1400 West 25th St., $60,103; 610 ft. 5 ft. 6 in. circular E. sewer in Bader Ave., to Gallagher & Burke Constr. Co., Rockefeller Bldg., $21,044; and 1,296 ft. 5 x 7 ft. and 160 ft. 5 x 8 ft. rein.-con. sewer in Giddings Brook, to A. Joseph, 877 Orange Ave. Noted May 20.

O., Cleveland—Bd. Comrs. Cuyahoga Co., 6,000 ft. 8- to 36-in. brick sewer in Broadview and Brookpark Rd., Impvt. 75B, to Langenhan Constr. Co., Marshall Bldg., $65,417. Noted May 13.

Mich., Detroit — Dept. Pub. Wks., to Ocasero Constr. Co., 1548 Penobscot Bldg., 12,197 lin.ft. vitr. crock sewer in Lateral 4579 $32,256, 13,463 ft. in Lateral 4580 $39,269, and 13,548 ft. in Lateral 4581 $39,278. Grand total $110,803.

Mich., Royal Oak (Ind. br. Detroit)—R. H. Whitney, city mgr., 7,975 ft. 10- to 48-in. vitr. and concrete sewer in Sewer 13, to Hammen & Co., 4612 Woodward Ave., Detroit, $62,418; and 6,720 lin.ft. 12- to 42-in. Sewer 15, to DePonio & DiCicco, 521 East State Fair Ave., Detroit, $53,290. Noted May 6.

Ill., Bloomington—Bd. Trustees Bloomington & Normal Dists., sewage treatment plant, appurtenances, etc., to J. L. Simmons Co., Bloomington, $596,311. Noted Apr. 8.

Ill., Libertyville — Bd. Local Impvts., 8,800 ft. 12- to 24-in. sewers, 446 ft. depth manholes, 28 manhole frames and covers, settling tank, sludge bed, pumping unit, clarifier, etc., to P. Frandzen, Kenosha, Wis., $80,000. Noted May 13.

Wis., Janesville—H. Traxler, city mgr., will lay 10,340 ft. 30- to 48-in. storm, and 12,438 ft. 10- to 18-in. concrete or vitr. storm sewers, etc., in various streets, by day labor. C. V. Kerch, City Hall, engr. Noted May 13.

Wis., Kohler—W. Nesemann, village clk., sewers in various streets, to R. J. Wilson Co., 107 West College St., Appleton, $35,270. Noted May 13.

Wis., Racine—J. F. Kovar, Route 1, concrete, sewer in North Racine St., Caledonia Twp., to P. J. Gavahan, 2003 North St. Clair St., $29,919.

Calif., Glendale — Vitr. sewers and c.i. watermains in Palmer, Cypress, Magnolia Aves., etc., to J. C. Hickey, 330 South Palm Ave., Alhambra, $87,667. Noted May 27.

Ont., Toronto—East York Twp. will construct 8 in. vitr. tile lateral and service sewers in Sammon, Donlands, Lumsden, Virginia and Gledhill Aves., by day labor. $26,000. G. R. Jack, 443 Sammon Ave., engr. Noted May 20.

Waste Disposal

Proposed Work

Ont., Windsor — City Council plans incinerator for city and border municipalities. B. Brian, City Hall, engr.

Bids Desired

Pa., Woodlawn—June 21, by F. E. Patterson, boro secy., garbage incinerator; adv. E. N.-R. June 3.

Ky., Louisville — June 25, at office Bd. Pub. Wks., incinerator. F. Moss, secy.; adv. E. N.-R. June 3.

Ind., Peru—June 8, by H. L. Baltimore, city clk., two unit garbage and refuse incinerator, 15 ton daily capacity.

Bids Received

Pa., Phila. — Dept. Pub. Wks., Bureau Street Cleaning, May 27, 200 ton per day incinerator complete, 51st and Greys Ave., from Chain Grate Incinerator Co., Inc., 1942 Forbes St., Pittsburgh, $395,000.

Bridges

Proposed Work

Del., Wilmington — State Hy. Dept., Dover, making plans South Market St. South Bridge, steel bascule span 200 ft. long over Christiana River, here. $400,000. Harrington, Howard & Ash, 1012 Baltimore St., Kansas City, Mo., engrs.

Virginia—See "Streets and Roads."

Mich., Grosse Pointe Park (br. Detroit)—Plans two 57 ft. rein.-con. bridges at Fox Creek, Whittier and Audubon Aves. C. H. Marden, 502 Garrick Theatre Bldg., Detroit, engr.

Ill., Chicago—Bd. Pub. Wks., Room 406, City Hall, A. A. Sprague, comr., soon takes bids electrical equipment for double leaf trunnion bascule bridge over Calumet River, at 100th St. $75,000.

Tex., Anderson—See "Streets and Roads."

Tex., Clarksville — See "Streets and Roads."

Tex., Crockett—See "Streets and Roads."

Tex., Franklin—See "Streets and Roads."

Tex., La Grange — See "Streets and Roads."

Tex., Sweetwater — See "Streets and Roads."

Quebec — Dept. Pub. Wks., Parliament Bldgs., Quebec, plans 2,644 ft. bridge, between Chicoutimi and St. Anne. $1,000,000. I. E. Vallee, Parliament Bldgs., Quebec, engr.

Bids Desired

Massachusetts — June 8, by Dept. Pub. Wks., Boston, concrete bridge and approaches on section highway in Middleborough. $25,000. W. F. Williams, comr.

Mass., Boston—June 8, by Dept. Pub. Wks., repairing Congress St. Bridge, steel and granite block pavement. $25,000. J. H. Sullivan, comr. Noted Dec. 17.

Mass., Conway—June 8, by Dept. Pub. Wks., Boston, 2 concrete bridges with bituminous macadam approaches, here. To exceed $25,000. W. F. Williams, comr.

New Jersey — June 21, by State Hy. Comn., Trenton, bridge over Cooper River, on Camden Connecting Road-South, Camden; and removing old highway bridge over Raritan River between Perth Amboy and South Amboy, Middlesex Co. A. L. Grover, secy.; adv. E. N.-R. June 3.

Va., Roanoke—June 25, by W. P. Hunter, city mgr., Municipal Bldg., rein.-con. arch bridge over Virginian R.R. tracks at Jefferson and Walnut Sts. B. H. Davis, Whitehall Bldg., New York City, consult. engr.; adv. E. N.-R. June 3.

North Carolina—June 9, by W. B. Ellis, chn. Road Comn. Mitchell Co., Bakersville, and W. M. English, chn. Bd. Comrs. Yancy Co., Burnsville, 240 ft. rein.-con. or structural steel bridge over Toe River. Cost to be borne by both counties.

S. C., Conway—June 16, at office Little Pee Dee Bridge Bd., bridges and approaches on Little Pee Dee River, at Potato Bed Ferry. Johnson & Roberts, Marion, engrs.; adv. E. N.-R. June 3.

Florida—See "Streets and Roads."

Kentucky—June 21, by State Hy. Dept., Frankfort, 275 steel and five 50 ft. rein.-con. girder span bridge over Kentucky River State Aid Project 123-A, at Camp Nelson, on Garrand and Jassamine Counties; also one 69 ft. and two 30 ft. span rein.-con. girder overpass over Louisville & Nashville R.R. tracks, on State Aid Project 29-D, near St. Helens, Lee Co. E. N. Todd, highway engr.

O., Cincinnati — June 18, by Comrs. Hamilton Co., Court House, two span 90 ft. concrete slab bridge, on Winton Rd. E. A. Gast, Court House, engr.

Ind., Anderson—June 7, by Comrs. Madison Co., Court House, 3 span 200 ft. steel and concrete bridge, on Perkinsville Pike. $100,000. M. A. Steele, Court House, engr. Former bids rejected. Noted Apr. 8.

Mich., Saginaw — June 11, by Saginaw Co. Rd. Comn., Bridge 731301, five 65 ft. spans, etc. R. W. Roberts, Lansing, engr.

Mich., Standish—June 18, by Arenac Co., Bridge 061101, 90 ft. span rein.-con. girder. G. H. Green, Alpena, engr.

Washington—See "Streets and Roads."

Bids Received

New Hampshire — See "Streets and Roads."

New York—T. F. Farrell, comr. Canals & Waterways, Albany **(e. e. means engineers estimate)**, bridge across Glens Falls Feeder Canal, Glen St., Glens Falls, Contr. M-19, from J. J. Fredella Co., Inc., Glens Falls, $25,588 e.e. $29,700; and bridge at Pearl St., Hudson Falls, Contr. M-20, from J. W. Holler, Inc., Fort Edward, $29,845 e.e. $36,856. Noted May 13.

O., Akron—Comrs. Summit Co., May 19, 143½ ft. steel truss bridge, on Cuyahoga St., from Humphrey & Bennage, Macedonia, $49,385. Engrs. est. $62,000. Noted Apr. 29.

Minn., Minneapolis — F. S. Gram, city purch. agt., City Hall, May 19, five 93 ft. and two 265 ft. rein.-con. spans, etc. over Mississippi River, at Cedar Ave., from N. W. Elsberg, city engr. (day labor basis) rock $891,000; and gravel $870,000. Noted Apr. 8.

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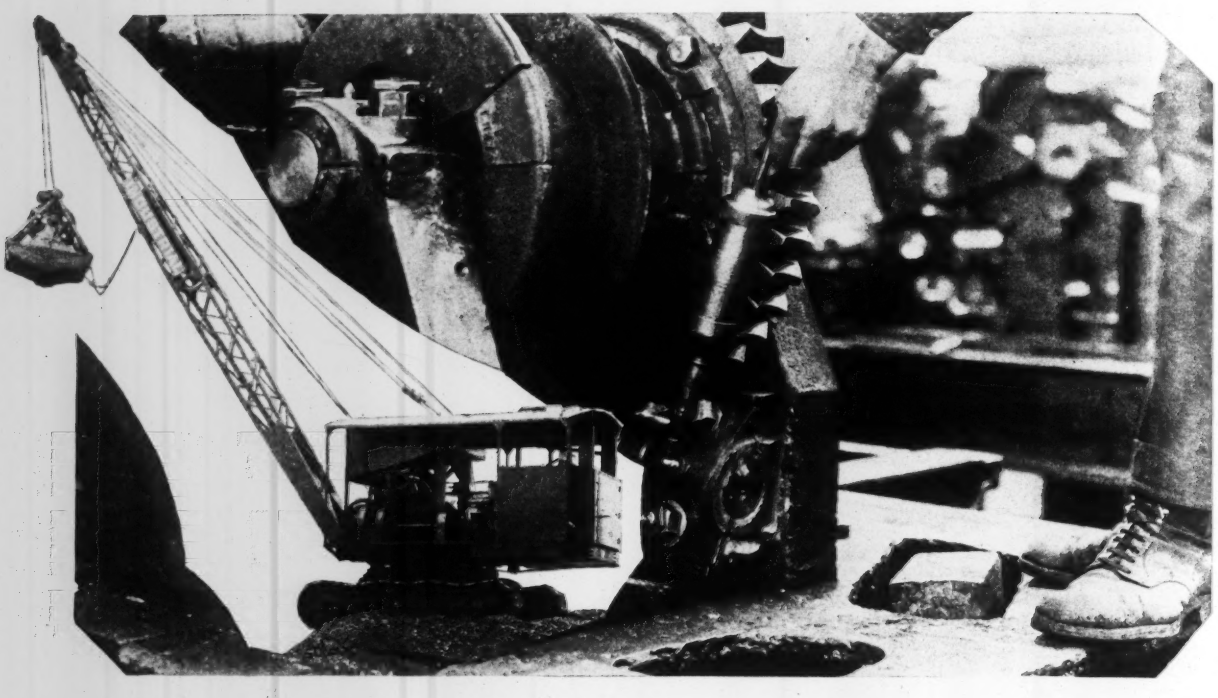

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INDUSTRIAL WORKS · BAY CITY · MICHIGAN

Bridges (Continued)

Texas—See "Streets and Roads."

Tex., Groveton—See "Streets and Roads."

Calif., Los Angeles — Bd. Supervs. Los Angeles Co., May 10, replacing old bridge with 40 ft. concrete span bridge, over Rubio Wash, on Pomona Blvd., from O. G. Bowen, 1144 South Grand Ave., $19,700; also timber truss bridge over San Gabriel River, at El Monte Ave., from E. G. Perham, 1144 South Grand Ave., $55,200. Noted Apr. 29.

Contracts Awarded

Vt., Brattleboro—State Hy. Dept., Montpelier, 325 ft. span, concrete and steel bridge and approaches, here, to G. H. Stebbins, North Adams, Mass., $129,628. Noted Apr. 22.

Mass., Somerville (Boston P. O.) — Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, 1 span concrete bridge and retaining walls, near Medford St., here, to Coleman Bros., 245 State St., Boston, $204,610. Noted May 6.

New York—T. F. Farrell, comr. Canals & Waterways, Albany, (**e. e. means engineer's estimate**), bridge across Glens Falls Feeder Canal, Glen St., Glens Falls, Contr. M-19, to J. J. Fredella Co., Inc., Glens Falls, $25,588 e. e. $29,700; and bridge at Pearl St., Hudson Falls, Contr. M-20, to J. W. Holler, Inc., Fort Edward, $29,845 e. e. $36,856. Noted May 13.

N. Y., Poughkeepsie—F. S. Greene, supt. Pub. Wks., Albany, 2 main river piers for Mid-Hudson Bridge, here, Contr. 3, to Blakeslee & Rowlins Corp., 6 Beacon St., Boston, Mass., $1,899,925. Noted May 27.

Fla., Tampa — City Comn., single leaf overhead counter weight type of Strauss trunnion bascule bridge over Hillsborough River, at Fortune St., to U. G. I. Contg. Co., Broad and Arch Sts., Phila., Pa., $401,343. Noted Feb. 25. This corrects report in May 20 issue.

O., Akron — Comrs. Summit Co., one 40 ft. span rein.-con. and steel bridge, on New Portage-Uniontown Rd., to N. R. Porterfield, Inc., $15,475, engrs. est. $18,000; and two 57 ft. span flat slab rein.-con. bridge, on Brittain Rd., to H. Squires & Co., Norwood Ave., Barberton, 11,430, engrs. est. $15,300. Noted Apr. 29.

Mich., Detroit — Dept. Pub. Wks., City Hall, 70 ft. steel encased concrete bridge on concrete abutments over Michigan Central Ry. tracks, at West Lafayette Ave., to W. H. Mueller, 210 Park Ave., $57,105. Noted May 20.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, nineteen 20 ft. span concrete slab bridge, one 160 ft. span concrete substructure incl. temporary road and bridge, on Route 24, Sect. 14-B, Sangamon Co., to Hurden Constr. Co., Springfield, $32,306; 112 ft. span steel overhead crossing on Route 2, Sect. 11-B, Union Co., 151,890 lb. reinforcing, etc., to V. L. Peters, Homer, $26,014; 160 ft. span steel superstructure on Route 24, Sect. 14-C, Sangamon Co., 179,060 lb. reinforcing, etc., to Illinois Steel Bridge Co., Jacksonville, $11,630. Grand total $69,950. Noted Apr. 15 and 29 and May 15.

Ill., Chicago—City, Room 406, City Hall, operators' houses and enclosure walls for double leaf trunnion bascule bridge over South Branch Chicago River, at West Adams St., to R. H. Simpson Co., 130 West Austin Ave., $82,400.

Ia., Anamosa—Jones Co., 1 high truss bridge with six 32 ft. I-beam approach spans, to Minneapolis Bridge Co., Metropolitan Life Bldg., Minneapolis, Minn., $26,916. Noted Apr. 22.

Ia., Cedar Rapids—Linn Co., bridges on Marion, Fairfax and Palo Rds., to P. Jayne, 2201 Mount Vernon Ave., $55,928; on Center Point-Benton Co. line Rd., to A. Melberg, Cedar Rapids, $19,450; on Primary Road 13, to Snyder & Johnson, Humboldt, $11,998; on Central City-Coggon Rd., Primary Project 14, to A. P. Munson, Marion, 12,809; on County Road 15, to G. H. Lowe, Slayton, Minn., $11,258; and on Primary Rd. 13, south of Prairie Creek, to Lundgren-Reis Co., 65 College Ave., Des Moines, $22,400. Grand total $133,842. Noted Apr. 8.

Ia., Cherokee—Cherokee Co., 10 I-beam bridges, to Graves Bros., Melvin, $19,400; 19 culverts, to H. Noel, Peterson, $7,583, and 32 culverts, to Moville Constr. Co., Moville, $12,886. Grand total $39,869.

Ia., Marengo—Iowa Co., high truss bridge on Federal Aid Project 244, to A. Olson Constr. Co., Waterloo, $14,640; and pony truss bridge on same project, to M. O. Burnett, Marengo, $28,410.

Ia., Sibley—See "Streets and Roads."

Ia., Toledo—Tama Co., 1 I-beam and 1 pony truss bridge on Federal Aid Project 257, to W. A. Burton, Waterloo, $15,800; 25 culverts and extensions, to Ward & Teslow, Decorah, $10,256. Noted Apr. 22.

Ia., Webster City — Hamilton Co., 2 I-beam bridges, to W. J. Zitterell Co., Webster City, $5,924; 12 culverts, to A. J. Carpenter & Co., Woolstock, $9,640; 3 I-beam and 1 slab bridges, to A. Swanson, Webster City, $13,557. Grand total $29,121.

Kan., Russell—See "Streets and Roads."

Wyoming—See "Streets and Roads."

Missouri—State Hy. Dept., Jefferson City, to G. W. Condon Co., Omaha, Neb., six 4 ft. rein.-con. slab spans, etc. over stream, Carroll Co., $1,963; to Cameron Joyce-Smith Elder Co., Keokuk, Ia., two 12 ft. rein.-con. slab spans, etc. over Lawn Branch, Pike Co., $2,603; to Stonner & Deering, Chamois, sixteen 20 ft. rein.-con. slab spans, etc. over Bourbeuse overflow, Franklin Co., $25,555; to Chaney & Amyx, Licking, four 22 ft. rein.-con. slab spans, etc. over Frederick Creek, Oregon Co., $5,062; to V. E. Koch, Joplin, six 20 ft. rein.-con. slab, and 45 ft. rein.-con. deck girder spans, etc. over Coon Creek, Jasper Co., $10,913; to M. Haase, St. Joseph, two 10 ft. rein.-con. slab spans, etc. over Peavine Creek, $4,866, and 30 ft. rein.-con. deck girder span, etc. over Wild Cat Creek, $5,795, both Carroll Co.; to Cook-O'Brien Constr. Co., Kansas City, three 24 ft. rein.-con. slab spans, etc. over Cedar Creek $4,647, three 35 ft. rein.-con. deck girder spans, etc. over Reeds Branch $7,285, both in Pettis Co.; to W. A. Ross Constr. Co., Kansas City, two 12 ft. rein.-con. slab spans, etc. over Spring Creek $3,369, two 20 ft. rein.-con. slab and one 35 ft. rein.-con. deck girder spans, etc. over Dry Branch $7,212, one 45 ft. and two 30 ft. rein.-con. deck girder spans, etc. over McCoy Creek $8,795, all in St. Charles Co.; to Hurtin & Sayer, St. Louis, two 30 ft. rein.-con. deck girder and three 80 ft. steel truss spans, etc. over Big Creek, Lincoln Co., $30,699; to Vincennes Bridge Co., Vincennes, Ind., 20 ft. and 40 ft. I-beam, two 60 ft., three 80 ft. and two 240 ft. steel truss spans, etc. over Gasconade River Maries Co. $85,589; to Kock & McGlone, Calhoun, two 5 ft. rein.-con. slab spans, etc. over stream $631, two 8 ft. concrete slab spans over stream $1,415, two 10 ft. rein.-con. slab spans over creek $2,585, four 10 ft. rein.-con. slab spans over stream $4,043, two 10 ft. rein.-con. slab spans, etc. over Muddy Creek $2,216, three 35 ft. rein.-con. deck girder spans, etc. over Lenesce Creek $7,379, three 20 ft. I-beam spans, etc. over Grand River over flow $3,534, two 30 ft. I-beam and one 100 ft. steel truss spans, etc. over Grand River D. D. $15,316 all foregoing in Cass Co.; and to Tyner Constr. Co., Kansas City, 80 ft. rein.-con. arch span, etc. over Muddy Creek, $12,723, and two 8 ft. rein.-con. slab spans, etc. over creek $2,402, both Bates Co., two 12 ft. rein.-con. slab spans, etc. on Sta. 318 plus 50, $2,626, and two 12 ft. rein.-con. slab spans, etc. on Sta. 331 plus 10 $2,618, both Jackson Co., three 14 ft. rein.-con. slab spans, etc. over creek, Bates Co. $3,898, three 24 ft. rein.-con. slab spans, etc. over Willow Branch, Vernon Co. $5,447, 40 ft. rein.-con. deck girder span, etc. on Sta. 370 plus 58 $2,593, 45 ft. rein.-con. deck girder span, etc. on Sta. 419 plus 90, $4,532, and 24 ft. arch culvert, on Sta. 471 plus 80 $3,167, all Jackson Co. Grand total $281,478. Noted Apr. 29.

Tex., Cameron—State Hy. Comn., Austin, bridges on Highway 43, Federal Aid Project 494-A, Milan Co., to Davis-Pace Co., 1306½ Young St., Dallas, $71,000. Noted May 13, under "Streets and Roads."

Tex., Decatur—See "Streets and Roads."

Idaho—State Hy. Dept., Boise, bridge over Snake River between Baker, Oregon and Adams Counties, to Portland Bridge Co., Portland, Ore., $66,360; and 32 ft. concrete and 90 ft. steel span bridge with approaches on Roosevelt Highway, Federal Aid Project 120-A, Goading Co., to D. J. Cavanagh, Twin Falls, $16,299.

Dams

Proposed Work

Va., Luray — Page Power Co., M. E. Rondabush, Luray, pres., plans dam and enlarging plant. To exceed $150,000.

Contracts Awarded

Que., Grandmere—Quebec Streams Comn., 59 Notre Dame St. E., Montreal, concrete dam 30 mi. north of here, Champlain Co., to Shawinigan Eng. Co., 103 Cascades, Shawinigan Falls. Engrs. est. $506,000.

Railways

Proposed Work

Minnesota—Duluth Street Ry. Co., 2631 West Superior St., Duluth, made plans 7,000 ft. double and 3,500 ft. single track, 90 lb. rails equipped with metal trolley poles, etc., on 45th Ave. east and Superior St. between Wyoming St. and 62nd Ave. E., in Duluth. $82,000. J. Carson, c/o owner, engr.

Nebraska—Union Pacific R.R. Co., 1416 Dodge St., Omaha, R. L. Huntley, ch. engr., making plans 8 mi. Lyman branch, and 10 mi. Gering branch, Scotts Bluff Co. $236,619 and $272,553 respectively. This corrects report in May 20 issue.

Washington—Columbia & Cowlitz R.R. Co. plans approximately 6 mi. extension in Cowlitz Co.

Quebec—Canadian Pacific Ry., Windsor Sta., Montreal, plans 6 mi. railway line between Maniwaki and Chelsea. W. W. Benny, Central Sta., Ottawa, Ont., engr.

Ontario — M. Vaughan, Welland, plans new electric railway, in Welland. $250,000.

Bids Desired

Pennsylvania—June 10, by A. C. Shand, ch. engr. Pennsylvania R.R. Co., Broad St. Sta., Phila., constructing concrete viaduct, piers, abutments, laying track, surfacing along line Delaware River extension of above railroad, 25th St. between Ellsworth St. and Passyank Ave., Contr. 18.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Tex., Dallas—City and Dallas Co. Levee Dist., R. S. Quillen, County Court, plans straightening Trinity River Channel, constructing levees on both sides, raising level of land back of levees and building bridges for railroads, street cars and motor traffic. $6,000,000. Myers & Noyes, Mercantile Bank Bldg., engrs.

Tex., El Jardin—Election soon $1,000,000 bonds, drainage and irrigation work, for Cameron Co. Water Impvt. Dist. 5, c/o C. L. Hunter, mgr. C. P. Williams, El Jardin, consult. engr. Noted Jan. 14.

Calif., Ramona—Ramona Irrigation Dist. voted $91,000 bonds, 7 mi. riveted steel pipe line, dipped and wrapped; pumping plants and reservoirs. T. K. King, 920 8th St., San Diego, engr. Noted Dec. 31.

Bids Desired

Fla., West Palm Beach—June 21, by Bd. Comrs. Lake Worth Inlet Dist., 208 Fern St., 65,000 tons stone for extending Lake Worth Inlet Jetties; adv. E. N.-R. June 3.

Bids Received

N. Y., Buffalo—Dept. Pub. Wks., Municipal Bldg., May 24, slips and bulkhead in Outer Harbor, just off foot South Michigan Ave., from Monarch Eng. Co., Chamber of Commerce Bldg., $989,000. Noted Apr. 22.

New Jersey — Bd. Commerce & Navigation, State House, Trenton, May 27, dredging Inland Waterway Channel frmo Atlantic City through Great Bay to Grassy Channel, near New Inlet, Atlantic Co., from Delaware Dredging Co., 30 South 3rd St., Phila., Pa., Proposition 1, at $0.238 per cu.yd., and Proposition 2 $0.238 per cu.yd. Noted May 13.

Mo., New Madrid — Morgan Eng. Co., Court House, May 12, approximately 2,715,000 cu.yd. excav., etc., from Ditches 2, 3 and 4, for D. D. 38, New Madrid Co., from Fred M. Crane Co., 210 South 24th St., Omaha, Neb., at $0.0715 per cu.yd. Noted Apr. 29.

Contracts Awarded

Ill., Sycamore—Comrs. Coon Creek D. D., De Kalb Co., cleaning open ditch, 15,000 cu.yd. excav., etc., to W. F. Sternberger, Piper City, Ill., at $0.30 per cu.yd. Noted Apr. 22.

Tex., Beaumont—Jefferson Co. D. D. 6, drainage work, incl. lateral ditches, to Martin Bros., Vidor, $46,517. Noted Apr. 29.

Tex., Brownsville — Cameron Co., constructing (1st unit) flood control works embracing levees along Rio Grande River above here, to J. Ballinger, San Benito,

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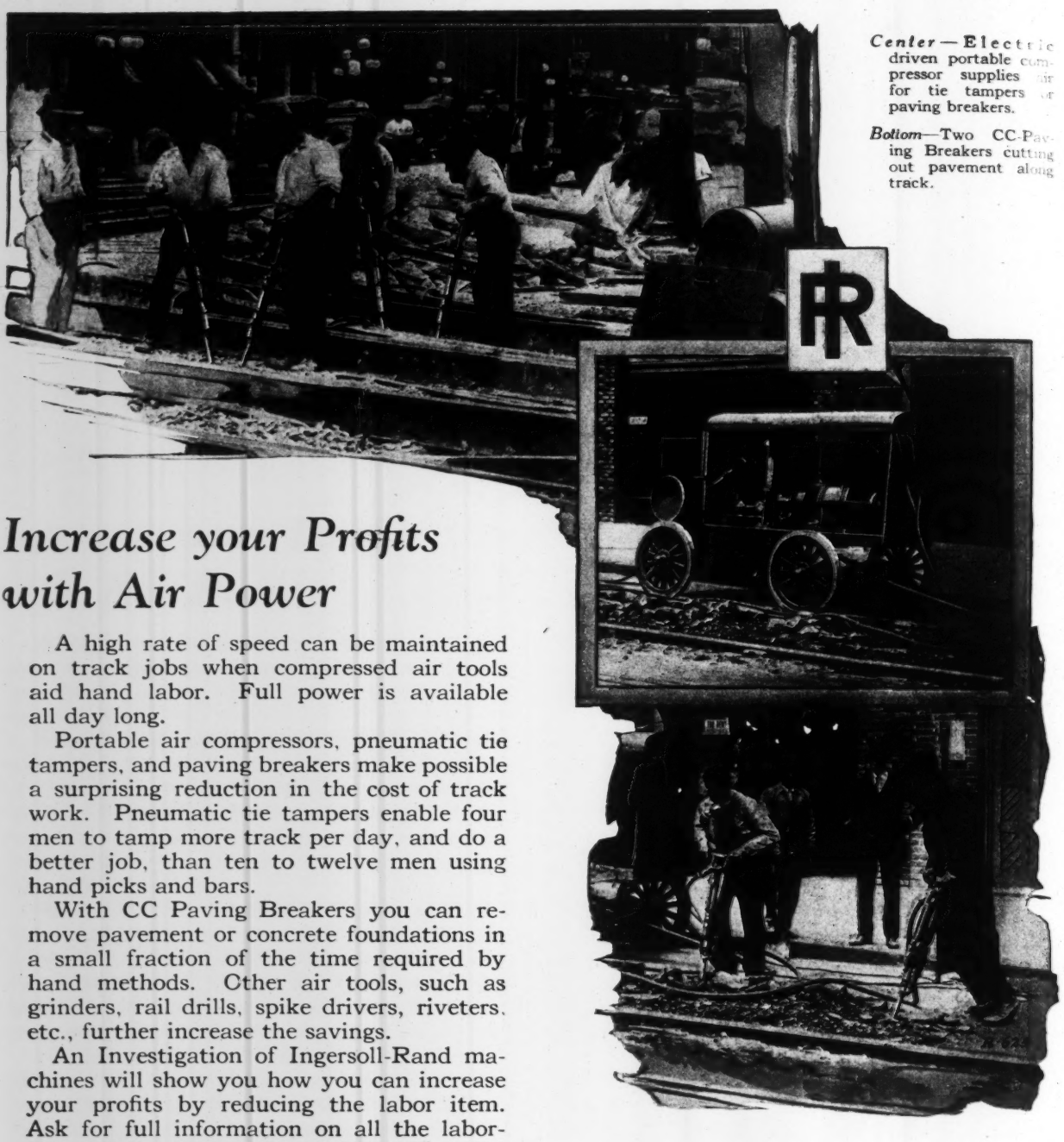

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Bottom—Two CC-Paving Breakers cutting out pavement along track.

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Ingersoll-Rand

Excavation, Drainage, Irrigation, Levees, River and Harbor (Cont.)

and Callahan, Crawford & Robertson, McAllen, $186,000. Noted May 6.

Tex., **Olmito** (near Brownsville) — A. Parker Securities Co., Brownsville, dredging Lake Tepeguaje (an artificial lake) in Olmito tract at new town site of Olmito now being developed, to J. Ballinger, San Benito, approximately $20,000.

British Columbia—Dept. Pub. Wks., Ottawa, Ont., dredging at False Creek, here, to Northwestern Dredging Co., 510 Hastings St. W., Vancouver, $40,000. Noted Mar. 11.

Streets and Roads

Proposed Work

Mass., Medford (br. Boston) — Plans constructing and extending 10 new streets. $90,000 appropriated. Private plans.

Mass., Revere (br. Boston)—Voted $55,000 bonds, permanent paving Malden St. Private plans.

Conn., South Manchester—Plans paving Main St. from Adams to Center Sts. $80,000 appropriated.

N. Y., Albany—Bd. Contr. & Supply, City Hall rejected bids May 17, improving Hunter, Washington and Belvidere Aves., etc., here.

New Jersey—Hunterdon Co. (Flemington) plans penetration macadam paving 4 mi. road from Flemington to Sergeantsville. $70,000. G. Davis, White House Station, engr.

N. J., Mt. Holley—Burlington Co. plans asphalt or penetration macadam paving 2 mi. Stevens Station Rd. $82,500 or $71,700.

N. J., New Brunswick — Middlesex Co. plans asphalt paving 1 mi. Ferry St., in South River, and 1 mi. Carteret-Wood Bridge Rd. W. F. Buchanan, Perth Amboy, engr.

N. J., Trenton—City Comn. plans paving Hanford, Dayton, Willow, Olden and Princeton Sts. $104,000. J. E. English, Trenton, engr.

Pa., Glassport—Takes bids about July 1, brick paving, etc. 7,800 sq.yd. various streets. R. C. Boyne, boro engr.

Pa., West Hazleton — Takes bids about June 18, various types paving 10,000 sq.yd. various streets.

Virginia — State Hy. Comn., Richmond, plans improving streets, roads, bridges, etc., on Route 105, Project 337 $12,000, Route 11, Project 177 $9,000, Route 12, Project 410 $40,000, Route 115, Project 245 $39,000, Route 12, Project 410 $45,000, Route 12, Project 437 $8,000, Route 102 and 10, Project 428 $3,000, Route 114, Project 217 $39,220, and Route 11, Project 195 $25,280, all foregoing in Bristol Dist.; Route 10, Project 143-B $30,000, Route 14, Project 309 $40,000, Route 12, Project 123-B $16,000, Route 15, Project 405 $20,000, Route 33 $90,000, Route 10, Projects 432 and 433 $9,525, and Route 10, Project 132 $40,000, all in Salem Dist.; Route 14, Project 259 $75,000, Route 14, Project 134 $41,232, Route 18, Project 278 $75,000, and Route 10, Project 162 $28,568, all in Lynchburg Dist.; Route 37, Project 377 $40,000, Route 21, Project 421 $120,000, Route 17, Projects 388 and 391 $41,000, and Route 14, Project 375 $23,000, all in Staunton Dist.; Route 32, Project 184 $48,100, and Route 21, Project 371 $150,000, both in Culpeper Dist.; Route 13, Project 419 $92,000, and Routes 30 and 38 $36,450, both in Fredericksburg Dist.; Route 10 $40,000, Route 324 $65,000, and Route 35, Project 145 $151,550, in Richmond Dist.; Route 121, Project 246-B $35,000, Route 40, Project 326 $40,000, Route 35, Project 145-H and J $109,000, Route 34, Project 181 $33,075, and Route 34, Project 280 $40,000, all in Suffolk Dist. H. G. Shirley, chn.

Fla., Tampa — Hillsborough Co., election June 22, asphalt composition on 6 in. lime rock paving Road 1 from John T. Gunn Highway, from Citrus Park, $80,000; Road 2 from John T. Gunn Highway westerly, $55,000; Road 3, $85,000 and Road 4 beginning at John T. Gunn Highway east and west.

Fla., West Palm Beach—Soon takes bids paving approximately 800,000 sq.yd. various streets. T. B. Henry, city engr.

Miss., Laurel—Jones Co. plans election soon $300,000 bonds, improving roads.

La., New Orleans—Comn. Council, plans paving South Claiborne, Mistletoe, Canal, Poydras, Franklin, South Prieur, and Alvar Sts., etc., to exceed $1,000,000; also temporary surfacing various streets, $118,000. B. Vallas, city engr.

Ky., Morganfield — Union Co. election June 12, $300,000 bonds improving various roads.

O., Akron—W. F. Peters, dir. Pub. Serv., soon takes bids grading, curbing, walks and vitr. brick paving 3,940 sq.yd. Schumacher St. $26,700, and 2,030 sq.yd. Mercer Ave. $19,600; also grading, walks and cindering 900 cu.yd. Parkview et al, $9,100. E. A. Kemmler, Municipal Bldg., engr.

O., Canton—Bd. Control soon takes bids asphalt paving Rowland Ave. N. E. from 12th to 17th Sts. N. E. $50,000. W. E. Sarver, City Hall, engr.

O., Euclid—Made plans paving, etc. East 216th St. $25,000. F. A. Thomas, Town Hall, engr.

Mich., Atlanta—Montmorency Co. takes bids about June 16, graveling 2.828 mi. Federal Aid 199, Sect. A. G. H. Green, Alpena, engr.

Mich., Bessemer—Gogebic Co. takes bids about June 15, grading 17.5 mi. Federal Aid Project 163. A. M. Hopperstead, Crystal Falls, engr.

Mich., Crystal Falls—Iron Co. takes bids about July 20, concrete paving 5 mi. Federal Aid 162. A. M. Hopperstead, Crystal Falls, engr.

Mich., Escanaba — Delta Co. takes bids about July 15, grading 5 mi. Federal Aid 160. R. R. Martin, Newberry, engr.

Mich., Grosse Pointe Park (br. Detroit) —Voted $50,000 bonds, sheet asphalt resurfacing 20,000 sq.yd. various streets. C. H. Marden, 502 Garrick Theatre Bldg., Detroit, engr.

Mich., Iron Mountain — Dickinson Co. takes bids about July 12, graveling 5 mi. Federal Aid 106; 18 ft. A. M. Hopperstead, Crystal Falls, engr.

Mich., Marquette—Marquette Co. takes bids about July 10, concrete paving 6 mi. Federal Aid 174. R. R. Martin, Newberry, engr.

Mich., Stanton—Montcalm Co. takes bids about June 15, concrete paving 6.353 mi. Federal Aid 132, Sect. A. H. C. Fleming, Grand Rapids, engr.

Ill., Chicago—Made plans and soon takes bids grading, sidewalks and asphalt on concrete paving also electric lighting system, using concrete posts, etc., on 2.5 mi. Loomis St., 42 ft., $610,000; asphalt surfacing 30,000 sq.yd. South Parkway, $67,500. L. White, 57th St. and Cottage Grove Ave. engr.

Ill., Grays Lake — Making plans and takes bids in July or August concrete paving various streets. $50,000. Marr, Green & Co., 400 North Michigan Ave., Chicago, engrs.

Ill., Lemont — Plans concrete paving various streets. $80,000. Marr, Green & Co., 400 North Michigan Ave., Chicago, engrs.

Ill., Riverside—Making plans and takes bids in July or August paving, waterworks and sewers in various streets. $100,000. Marr, Green & Co., 400 North Michigan Ave., Chicago, engrs.

Wis., Waukesha—Making plans concrete paving, etc., 26,000 sq.yd. Bway., Dunbar, Fairview, Franklin, Hamilton, Marshall and Central Sts. A. R. Schuh, City Hall, engr.

Kan., Girard—Crawford Co. plans grading and chat surfacing, etc., 3.513 mi. Federal Aid Project 347-A.

Mo., Farmington — Making surveys and takes bids about July 1, grading, curbing and concrete paving 10,000 sq.yd. various streets. $25,000. Haskins & Crawford, 824 Finance Bldg., Kansas City, engrs.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, making preliminary plans vitr. brick repaving, etc., Hebert St. between Glasgow and Grand Sts., $9,800; grading Rosalie St. between Marcus and Kingshighway Sts., $12,700; brick or asphaltic concrete paving, etc., Farlin St. between Camelia St. and alley in City Block 4411-B, $2,350-$2,800; rein.-con., vitr. brick, or shallow granite block paving Penrose St. between Kingshighway Memorial Blvd. and Geraldine St., $18,400-$26,800; rein.-con., amiesite, asphalt, Warrenite or asphaltic concrete paving, etc., Queens Ave. between Thelka and Kingshighway N. W., $25,700-$27,800, Hamburg St. between Gravois and Hildersheim Aves. $26,100-$28,600, and Moellenhoff St. between Loughborough and Upton Sts. $19,000-$20,500; asphalt, Warrenite or amiesite paving, etc., Lynch St. between Bway. and 13th St. $34,600-$35,000, Dodier St. between Spring and Prairie Sts. $13,100-$13,200, and Lambdin St. between Ashland and Natural Bridge Sts. $14,900-$15,000; asphalt, Warrenite, amiesite or asphaltic concrete paving, etc., Berthold St. between Lindell Estate and Clayton Ave. $15,300-$16,200, Durant St. between Kingshighway N. W. and Thelka St. $29,300-$31,600, Genevieve St. between Prange St. and Kingshighway N. W. $17,020-$18,400, Grace St. between Delore and Bates Sts. $31,400-$33,700, Murdoch St. between Macklind and Wherry Aves. $8,350-$9,000, and Pennsylvania Ave. between Eichelberger and Fassen Sts. $14,400-$15,400. W. W. Horner, 300 City Hall, engr.

Tex., Anderson — Grimes Co. takes bids after June 7, grading and bridging 9 mi. Highway 90. $73,650.

Tex., Big Lake—Election soon, $25,000 bonds, paving 10 blocks various streets. Engineer not selected.

Tex., Brackettville—Kinney Co. election July 10, $150,000 bonds, surfacing, bridging, etc. various roads. Address County Judge.

Tex., Clarksville—Red River Co. making plans grading, bridging, etc. 8.9 mi. Detroit Rugby Rd., 26 ft. $85,000. M. P. Homeyer, Clarksville, resident engr.

Tex., Clarksville—Election soon $25,000 bonds paving various streets. Engineer not selected.

Tex., Crockett — Houston Co., making plans grading and bridging, etc. 8.5 mi. Highway 21, 26 ft. $45,705. F. J. Von Zuben, Crockett, co. engr.

Tex., Franklin—Making plans grading, bridging and gravel surfacing 3.5 mi. Highway 43 from Hearne to Brazos River, 18 ft. $73,300. L. A. Peterman, Hearne, engr.

Tex., La Grange — Fayette Co. making plans grading, bridging and gravel surfacing, etc. 7.5 mi. Highway 44, 18 ft. $120,500. R. E. Schiller, La Grange, co. engr.

Tex., Sweetwater — Nolan Co. making plans grading, bridging and bituminous macadam paving 4.1 mi. State Highway 70, from Sweetwater to Fisher Co. line, 18 ft. $113,326. J. A. Focht, Sweetwater, co. engr.

Calif., Los Angeles—Bd. Pub. Wks. takes bids about June 18, curbing, grading, guttering, sidewalks and asphaltic concrete paving, etc. Hillcrest Dr., Court and Hill St. Impvt. Dist., also 5th Ave. and 60th St. Impvt. Dist. To exceed $50,000. J. C. Shaw, City Hall, engr.

Calif., Sacramento—Plans election $371,500 bonds, improving main artery streets and park roads. A. J. Wagner, city engr.

Calif., San Bernardino — Plans paving Rialto Ave. To exceed $100,000.

Calif., Wheatland—Making plans paving, etc. various streets. To exceed $25,000.

B. C., Vancouver — City Council takes bids about June 4, sidewalks, curbing, concrete and asphaltic concrete paving various streets. $200,000. C. Brackenridge, City Hall, engr. Noted Mar. 4.

Bids Desired

Massachusetts — June 8, by Dept. Pub. Wks., Boston, bituminous macadam paving 8,100 ft. highway in Stow, 3,800 ft. in Ashburnham, 10,170 ft. in Belmont, 2,250 ft. in Reading, 1,925 ft. in Somerset and 3,540 ft. in Westborough; gravel surfacing 699 ft. in New Ashford; hard paving 4,200 ft. in. Savoy; bituminous concrete paving 10,100 ft. in Barnstable. W. F. Williams, comr.

Mass., Boston — June 8, by Dept. Pub. Wks., recut granite block paving Boston St. $25,000. J. H. Sullivan, comr.

New York—June 11, by A. W. Brandt, comr. Highways, Dept. Pub. Wks., Albany, reconstructing and constructing highways in Rensselaer, Rockland, Erie, Broome, Cayuga, Dutchess, Monroe, Tompkins and Warren Counties; June 15, in Chautauqua, Livingston, Madison, Washington, Wayne, Delaware, Sullivan, Orleans, Monroe, Schuyler and Yates Counties; adv. E. N.-R. June 3.

N. Y., Boston—June 5, by C. A. Endress, town clk., bituminous macadam paving 4 mi. Thiel, Feddick and North Rds., 18 ft. $60,000.

N. Y., Lackawanna—June 7, brick, concrete or asphalt paving approximately 40,000 sq.yd. various streets. T. M. McCormick, city engr.

N. Y., Long Island City—June 8, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, sidewalks and permanent sheet asphalt on concrete paving Liberty Ave. from Brooklyn Boro line to 88th St. (Boyd Ave.) and from 88th St. to Rockaway Blvd.

N. Y., Tonowanda—June 7, paving 30,000 sq.yd. 3 streets. T. Barrally, city engr. Noted Apr. 15.

New Jersey — June 14, by State Hy. Comn., Trenton, grading and rein.-con. paving Route 20, Sect. 5, Millville to Vineland, Cumberland Co. A. L. Grover, secy.; adv. E. N.-R. June 3.

New Jersey — June 21, by State Hy. Comn., Trenton, widening Whitehorse Pike, Route 3, Sect. 11A, Berlin to Hammonton, Camden Co. A. L. Grover, secy.; adv. E. N.-R. June 3.

N. J., Flemington—June 17, by Bd. Freeholders Hunterdon Co. bituminous on

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macadam paving 18,398 sq.yd. Lambertville-Stockton Rd. G. Davis, White House Station, engr.

N. J., New Brunswick — June 17, by Freeholders Middlesex Co., asphalt paving 10,080 sq.yd. Cranbury-New Brunswick Turnpike. W. F. Buchanan, 175 Smith St., Perth Amboy, engr.

Pennsylvania—June 22 and 23, by State Hy. Dept., Harrisburg, constructing approximately 47 mi. 19 projects in Allegheny, Armstrong, Beaver, Crawford, Delaware, Franklin, Lawrence, Lebanon, Montgomery, Perry, Schuylkill, Somerset, Warren and Westmoreland Counties. W. H. Connell, eng. executive and acting secy. highways; adv. E. N.-R. June 3.

Pa., Southmont (Johnstown P. O.) — June 14, by R. G. Wertz, secy. Boro Council, bituminous on concrete or rolled stone paving 6,950 sq.yd. Bliss, Weaver and Gardner Sts. S. E. Dickey & Co., 809 Johnstown Trust Bldg., Johnstown, engr. Noted May 6.

Delaware—June 23, by State Hy. Dept., Dover, grading and concrete paving, etc. 4.25 mi. New Castle-Wilmington Rd., Contr. CN31; 5.13 mi. Magnolia-Canterbury, Contr. CK26; and 0.5 mi. Bay Shore Road-Lewes, Contr. CS53; adv. E. N.-R. June 3.

Md., Baltimore—June 9, by Bd. Awards, sheet asphalt paving 14,640 sq.yd. Contr. 343; and concrete paving 6,475 sq.yd. Contr. 344. S. Purcell, City Hall, highways engr.

Md., Easton — June 15, by Mayor and Council, concrete paving 6,000 sq.yd. West and Hanson Sts. E. G. Kastenhuber, Jr., town engr.; adv. E. N.-R. June 3.

Va., Abingdon — June 7, at office Clerk Washington Co., grading and waterbound macadam surfacing 44,733 sq.yd. Tin Bridge Rd.

W. Va., Morgantown—July 6, by County Court, grading and hard-surfacing Miller Hill Kelley Rd., and Evansville Pike, both Clinton Dist. A. J. Baritell, co. engr.; adv. E. N.-R. June 3.

Florida — June 16, by State Rd. Dept., Tallahassee, 8 in. Florida lime rock surfacing 7.43 mi. road, Volusia Co.; clearing, grubbing, grading, etc. 3.94 mi. road in Charlotte Co., 7 mi. Lake Co. and 12 mi. Brevard Co.; bridge to have one 120 ft. span on concrete piers and 1,243 ft. approach span also and bridge to have one 120 ft. steel span on concrete piers and 1,348 ft. approach span, both in Okaloosa Co. J. L. Cresap, highway, engr.

Fla., Vero Beach—July 7, at office Carter & Damerow, engrs., Vero Beach, grading and bridging roadway, Sects. 1 and 2, Florida Cross State Highway between Vero Beach and Kissimmee River, in Indian River and Osceola Counties; adv. E. N.-R. June 3.

Miss., Houston—June 11, by Bd. Supervs. Chickasaw Co., improving 9.094 mi. Federal Aid Project 186, 29,003 cu.yd. excav., 44,416 cu.yd. borrow, 45,507 lb. reinforcing, 18,960 cu.yd. gravel 1 mi. haul, 101,934 units ½ mi. haul, 44,437 ft. creosoted and 1,886 ft. untreated timber, etc. H. C. Dietzer, Jackson, engr.

Louisiana—June 9, by State Hy. Comn., Baton Rouge, constructing 6.74 mi. Hoynesville-Bernice Highway, State Project 453 B3, Claiborne Parish; 4.06 mi. New Iberia-St. Martinsville Highway, State Project 453-A, St. Martins Parish; and 11 mi. Farmersville-Bastrop Highway, State Project 452-B, Union Parish. W. B. Robert, Reymond Bldg., Baton Rouge, highway engr.

La., Ruston—See "Contracts Awarded."

Kentucky—June 21, by State Hy. Dept., Frankfort, **(F. A. P. means Federal Aid Project and S. A. P. means State Aid Project)**, medium type surfacing 10.1 mi. Scottsville-Glasgow-Barren River Rd., F.A.P. 112, Allen Co.; low type surfacing 13.1 mi. Marion-Morganfield Union Co. line Rd., F.A.P. 119-A, Crittenden Co. and 8.2 mi. Edmonton-Glasgow-Barren Co. line Rd., S.A.P. 1-A, Metcalf Co.; medium type surfacing 2.5 mi. or low type surfacing 5 mi. Franklin-Bowling Green Rd., S.A.P. 15-A, Simpson Co. and 2.5 mi. or 5 mi. same road, Warren Co.; grading and low type surfacing 9.3 mi. Hopkinsville-Elkton Rd. (Jeff Davis Highway), F.A.P. 123-A, Christian Co.; grading, etc. 9.4 mi. Morgantown-Hartford-Borahs Ferry Rd., S.A.P. 11-A Butler Co., 5.1 mi. Owensboro-Livermore-McLean Co. line Rd., S.A.P. 77-A, and 1.9 mi. Owensboro-Fordsville-Ohio Co. line Rd., S.A.P. 12-A, both Daviess Co., also 10.7 mi. Compton-Jackson-Breathitt Co. line Rd., F.A.P. 121-A, Wolfe Co. E. N. Todd, highway engr.

Kentucky—June 28, by State Hy. Dept., Frankfort, **(F.A.P. means Federal Aid Project and S.A.P. means State Aid Project)**, reconstructing and low type surfacing 4.4 mi. Danville-Liberty-Lincoln Co. line Rd., S.A.P. 96-A, Boyle Co.; low type surfacing 6.1 mi. Coyce-Fulton-Hickman Rd., F.A.P. 130-B-C Fulton Co., 2.5 mi. Madisonville-Hopkinsville Rd. from Earlington to Mortons Gap, F.A.P. 122-B Hopkins Co., 9.6 mi. Marion-Smithland Rd., F.A.P. 92 Livingston Co., and 5.8 mi. Williamsburg-Jellico Rd., S.A.P. 35-C, Whitley Co.; grading and low type surfacing 7.8 mi. New Castle-La Grange-Oldham Co. line Rd., S.A.P. 19-A, Henry Co.; grading and medium type surfacing 3.3 mi. Munfordville-Bowling Green Rd. from Horse Cave to Cave City, F.A.P. 152-A and B, Hart and Barren Counties, high type surfacing 6.5 mi. Williamstown-Georgetown Rd., F.A.P. 114 Grant Co., 10.4 mi. Cannonsburg-Louisa-Lawrence Co. line Rd., F.A.P. 35-B and 136, Boyd Co.; grading and high type surfacing 3 mi. Madisonville-Earlington-Hopkinsville Rd., F.A.P. 122-A, Hopkins Co.; grading 7.5 mi. Elizabethtown-Leitchfield Rd., F.A.P. 147-B, Hardin Co., 13 mi. Hazard-Whitesburg Rd., F.A.P. 128-D-E Knott and Letcher Counties, 6.9 mi. West Liberty-Salyersville-Magoffin Co. line Rd., S.A.P. 28-B Morgan Co., and 9.2 mi. same road, S.A.P. 28-C, Magoffin Co. E. N. Todd, highway engr.

O., Dayton—June 11, by G. F. Baker, dir. Pub. Serv., brick or granite on concrete paving, etc., 47,000 sq.yd. 5th, Washington and Findlay Sts. $122,000. J. F. Hale, city engr.

O., Euclid—June 7, by Village, asphaltic concrete paving East 216 and East 234th Sts. To exceed $25,000. F. A. Thomas, Bd. Town Hall, engr.

Ind., Plymouth—June 14, by Bd. Comrs. Marshall Co., concrete paving. Chas. Rhoade, et al., Rd. $58,600. O. H. Weber, aud.

Ind., Salem — June 7, by Bd. Comrs. Washington Co., constructing 16,971 ft. Little York Rd., Washington Twp. $25,824. W. J. Nicholson, aud.

Ind., Sullivan — June 7th, by Comrs. Sullivan Co., constructing 12,468 ft. highway. $27,718. A. M. Carter, co. aud.

Mich., Muskegon—June 8, by Rd. Comn. Muskegon Co., grading, concrete or asphalt surfacing 1¼ mi. Lake Harbor Rd., 20 ft. $35,000. L. H. Nielsen, Court House, engr. Noted June 3.

Illinois—June 9, by State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, grading 23,651 cu.yd. Route 14, Sect. 12-X, White Co. F. T. Sheets, ch. engr.

Ill., Chicago — June 8, by City, Room 207, City Hall, grading, sewers and 7 in. concrete paving 9 various alleys, West 77th Pl. and North Central, Exchange, North Hamlin, North Oak Park, and Pensacola Aves. J. J. Sloan, pres.

Wis., Elkhorn — June 8, by H. J. Peters, comr. Walworth Co. Highways, graveling, etc. 11,000 cu.yd. Elkhorn-Williams Bay Rd.; 5,000 cu.yd. Sharon-Clinton Rd.; 5,000 cu.yd. La Grange-Palmyra Rd.; and 3,000 cu.yd. Troy-Muwonago Rd.

Wis., Milwaukee—June 7, by Dept. Pub. Wks., R. E. Stoelting, comr., rein-con. repaving, etc., 21,603 sq.yd. 27th St. and 2nd Ave. J. Schwada, city engr.

Wis., New London — June 8, by C. J. Thompson, city clk., grading and rein.-con. and vibrolithic concrete 9,371 sq.yd. paving Mill St. F. M. Charlesworth, Jr., Kaukauna, engr.

Minn., Rochester—June 7, by City, A. F. Wright, clk., vertical fibre brick paving, etc. approximately 8,470 sq.yd. various streets. $25,235.

Kan., Ft. Scott—June 12, by K. Culbertson, clk. Bourbon Co., 120,000 gal. bitumen for single surface treatment on 31 mi. roads.

S. D., Aberdeen—June 7, by L. W. Kohlhoff, city aud., 6 in. reinforced vibrolithic concrete paving, etc. 24,700 sq.yd. various streets. $65,000. A. E. Bennett, city engr.

Mo., Kennett—June 7, by C. S. Schultz, clk. Dunklin Co., graveling, etc. 6.28 mi. various streets, 16 ft. C. E. Smith & Co., Burnett Bldg., engrs.

Tex., Alice — June 15, by F. E. Hess, engr. Jim Wells Co., bituminous macadam surfacing 48.4 mi. Highway 12, and 5.9 mi. Highway 12-A, 18 ft. $1,200,000.

Tex., Groveton—June 14, by F. J. Berry, judge Trinity Co., grading, bridging, etc., 19.054 mi. Highway 94, State Aid Project 677-A, 26 ft. $100,000. Noted May 20.

Tex., Houston—J. C. McVea, city engr., taking bids paving various streets, for City. $60,000.

Tex., Karnes City—June 18, by O. N. Powell, engr. Karnes Co., bituminous macadam paving 9 mi. Highway 16, 18 ft. $160,000.

Washington — June 15, by State Hy. Dept., Olympia, **(S. R. means State Road)**, grading, etc., 72,500 cu.yd. S. R. 1, Whatcom Co.; crushed graveling, etc., 6,260 cu. yd. S. R. 2, and 22,000 cu.yd. S. R. 3, both Kittitas Co.; crushed rock or graveling approximately 18 mi. S. R. 8, Klickitat Co.; and constructing two 12 ft. span bridge on S. R. 2, Lincoln Co.; 100 ft. T-beam bridge on S. R. 1, Lewis Co.; and 1,040 ft. timber bridge on S. R. 1, Skagit Co. J. [illegible] Hoover, highway engr.

Calif., Los Angeles—June 14, by Supervs. Los Angeles Co., grading and concrete paving, etc., 190,432 sq.ft. 2nd St. extended from Pomona Blvd. to west city limits of Pomona. G. W. Jones, co. rd. comr.

Calif., Martinez—June 21, by J. H. Wood, clk. Contra Costa Co., improving Concord-Avon Rd., 4,400 tons base rock, 1,440 [illegible] top rock and screenings, 101,216 sq.ft. [illegible]ing. R. R. Arnold, Martinez, co. surv.

Calif., Modesto — June 14, by Supervs. Stanislaus Co., asphaltic macadam paving, etc. 1.8 mi. McHenry Rd., 18 ft.; 3 [illegible] Oakdale Rd. 1.6 mi. Finney Rd., and 0.6 [illegible] California Ave., all foregoing 16 ft. [illegible] exceed $25,000. J. H. Hoskins, Modesto, co. surv.

Calif., San Rafael—June 14, by Supervs. Marin Co., grading, etc., 127,471 cu.yd. Manor to Pt. Reyes Highway. J. C. Ogle[illegible], San Rafael, co. surv.

Calif., Tracy—June 10, by G. L. Frerichs, city clk., grading, curbing, guttering 1½ [illegible] Willite asphaltic concrete on 3½ in. Willite asphaltic concrete paving, etc. Eaton Ave. Center, Ofcee Sts., etc. To exceed $25,000. E. C. Finley, city engr. Noted May 27.

Ont., North Bay—June 7, by C. H. Fullerton, ch. engr. Providence Ontario, Northern Development Branch, Parliament Bldgs., Toronto, clearing, grading, graveling, etc. 38 mi. sections North Bay to Latchford Trunk Rd. $400,000.

Ont., Sarnia—June 10, by M. Beatty, city engr., sheet asphalt paving various streets. $40,000.

Ont., Waterloo—June 12, by L. F. Dietrich, chn. Bd. Wks., sheet asphalt paving 5,000 sq.yd. and concrete paving 1,300 sq.yd. various streets. $30,000. C. E. Necker, Town Hall, engr.

Que., Chartierville — See "Contracts Awarded."

Man., Oakbank—June 5, by E. C. Cowan, engr. Municipality Springfield, Oakbank, roadwork. $35,000.

Bids Received

Maine—State Hy. Dept., Augusta, May 20, grading, concrete paving, etc., highway in North Kennebunk, from A. Susi & Co., 12 Richfield St., Dorchester, $399,491; in Wells and Kennebunk, from Bruno & Pelitti, 18 Tremont St., Boston, $154,389; and in Ellsworth-Trenton, from McCabe & Giovannini, Inc., 20 Central St., Boston, $197,144. Noted May 13.

New Hampshire—State Hy. Dept., Concord, May 20, from Arborio Road Constr. Co., 408 Main St., Hartford, Conn., gravel surfacing 1.35 mi. highway in Pinkham Notch $29,300, 0.76 mi. highway in Lancaster $15,401, and bituminous macadam paving 2.15 mi. in Rochester $25,650, from T. Meloy, Gorham, 0.9 mi. highway in Whitefield $19,938, and gravel surfacing 0.48 mi. in Randolf $10,220; from Winslow & Cummings, Nashua, rein.-con. paving 1.35 mi. in Exeter and Stratham, $56,085; and from Ames Constr. Co., Somersworth, 24 ft. span deck girder bridge and approaches on Highway 207, in East Kingston, $5,798. Noted May 20.

Massachusetts—Dept. Pub. Wks., Boston, May 25, bituminous macadam paving 4,550 ft. highway in Sandswich from Washburn & Sheridan Constr. Co., East Taunton, $18,804; 1,500 ft. in Avon, from Powers, Taurasi & Rush, 139 Federal St., Boston, $8,537; 1,900 ft. in Medfield, from O. Menci, 27 Martinack St., Peabody, $10,782; and 15,300 ft. in Dartmouth, from Greeney & Sherry, Fall River, $279,366. Noted May 20.

Mass., Boston—Dept. Pub. Wks., May 24, sheet asphalt or bitulithic paving Wade St., Ward 14, from S. J. Tomassello, 11 Cushing Terrace, Dorchester, $35,986. Noted May 20.

Mass., Brookline (br. Boston)—Bd. Selectmen, May 17, sheet asphalt or Warrenite bitulithic paving Beacon St. between Park St. and Washington Sq., from Warren Bros. Co., 9 Cambridge St., Boston, $24,752. Engrs. est. $25,000. Noted May 13.

New York — A. W. Brandt, comr. Highways, Albany, May 25, **(e. e. means engineers estimate)** constructing 4.2 mi. Highway 5711, East Galway-Saratoga Rd., Part 2, Saratoga Co., from M. C. Tryon, Herkimer, $155,894 e. e. $199,001; 7.52 mi. Highway 1731, New Berlin-Leonardsville Rd., Part 1, Chenango Co., from Parlor City Constr. Co., Binghamton, $359,997 e.e. $514,815; and 5.34 mi. Highway 8247, Red Creek-South West Oswego Rd., Parts 1 and 2, Cayuga Co., from F. W. Forness, Jr., 438 North Union St., Olean, $230,546 e.e. $290,118. Noted May 13.

N. Y., Brooklyn — J. A. Guider, pres. Brooklyn Boro, Boro Hall, May 26, permanent asphalt paving East 37th St. and Liberty Ave., from Borough Asphalt Paving Co., 301 Metropolitan Ave., $3,806 and $4,042 respectively, also Caton Ave., from

Streets and Roads (Continued)

Brooklyn Alcatraz Asphalt Paving Co., 407 Hamilton Ave. $4,793; restoring and asphalt repaving where directed on various streets, from Uvalde Asphalt Paving Co., 1 Bway., New York City, $15,900; grading, curbing and flagging East 4th and East 5th Sts., from G. M. Mandato, 139 29th St., $3,383 and $3,668 respectively, East 37th St. and Avenue I, from Castle Bros. Inc., Johnston Pl., $834 and $1,243 respectively, East 48th St., from W. J. McHale Contg. Co., 1250 Jefferson Ave., $2,227. Noted May 20.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., May 29, sheet asphalt paving Cooper Ave., from Uvalde Asphalt Paving Co., 1 Bway., New York City, $22,855, also Ditmars Ave. and sheet asphalt on granite block paving Nelson Ave., from Cleveland Trinidad Paving Co., Flushing, $12,515 and $8,393 respectively; granite block paving Meadow St., from Welsh Bros. Contg. Co., 14 Queens St., $66,642; asphalt block repaving Woolsey St., from W. P. McDonald Contg. Co., Lawrence St., Flushing, $237,000; and curbing, guttering and sidewalks Nelson Ave., from O'Brien & Kurth, 8625 137th St., Jamaica, $9,791. Noted May 27.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., May 24, grading and granite block repaving Forsyth St. from St. George Paving Co., 90 West St. $22,124, and 5th Ave., from Asphalt Constr. Co., 208 Bway. $80,324; widening and sheet asphalt repaving Madison Ave., from Uvalde Asphalt Paving Co., 1 Bway., $39,735; also grading and asphalt block paving Stone St., from D. J. McCarthy, 88 Audubon Ave., $9,497. Noted May 20.

New Jersey—State Hy. Comn., Trenton, May 24, widening and concrete paving 84,600 sq.yd. Whitehorse Pike from Egg Harbor to Hammonton, Route 3, Sect. 12-A, Atlantic Co., from Comerford Constr. Co., 125 South 5th St., Atlantic City, $323,471. Noted May 6.

N. J., Manasquan—Boro Council, May 25, concrete paving 0.914 mi. Main St., from M. Staub, Pitman, $77,887. Noted May 6.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, May 24, improving York Rd., Chelton and 65th Aves., from J. J. McHugh, 1617 Race St., $213,355. Noted May 13.

Maryland—State Rd. Comn., Baltimore, May 25, graveling 2.37 mi. Contr. Sm-36, St. Marys Co., from Southern Maryland Constr. Co., 12 East Lexington St., Baltimore $19,623, and 1.75 mi. Contr. AA-47, Anne Arundel Co., from T. Mullan, 3945 Greenmount Ave., Baltimore $21,422; concrete paving 1.2 mi. Contr. T-23, Talbot Co., from Hannemann-Burroughs Co., Salisbury $25,992, and 1.25 mi. Contr. P-62, Prince Georges Co., from Thomas, Bennett & Hunter, Westminster $52,516; concrete shoulders on 3.4 mi. Contr. Ce-10-A, Cecil Co., from T. P. Murray, Towson $12,896, and 3.35 mi. Contr. M-10-C, Montgomery Co., from Gosnell, Russell Co., Frederick $25,952; macadam resurfacing 3.3 mi. Contr. W-40, Washington Co., from Bester, Long Co., Hagerstown $46,609. Noted May 13.

D. C., Wash. — Dist. Comrs., District Bldg., approximately 35,000 sq.yd. cement sidewalks on various streets from G. B. Mullin Co., 1296 Upshaw St. N. W. **(A)** $2.15; and from H. S. Hatton Constr. Corp., Bond Bldg. **(B)** $2.26. Noted May 20.

Florida — State Rd. Dept., Tallahassee, May 20, clearing, grubbing, grading, etc., 14.2 mi. road in Seminole Co., from Lake Worth Constr. Co., Lake Worth, $99,781. Noted May 13.

Louisiana — State Hy. Comn., Baton Rouge, roadway embankment 1.857 mi. Vinton-Orange Highway, Federal Aid Project 43 D, Unit 1, Calcasieu Parish, from Gifford Constr. Co., Mockbird St., Dallas, Tex., $234,500. Noted May 13.

O., Akron—Comrs. Summit Co., May 24, improving 2.9 mi. Kenmore-Mogadore Rd. 44E, 18,100 cu.yd. earth excav., and 34,000 sq.yd. 9-7-9 ft. **(a)** bituminous concrete **(b)** brick **(c)** rein.-con. **(*)** slag **(†)** gravel **(o)** limestone paving, etc. from McCourt Constr. Co., 369 South Main St. **(a)** $119,360 **(b)** $146,465 and **(c†)** $113,748; from A. E. Guilford Constr. Co., Metropolitan Bldg., **(c*)** $111,751; from C. F. Wilmore, Middletown, **(co)** $113,492.

Mich., Fordson—From White Constr. Co., 1548 Penobscot Bldg., Detroit, curbing, 8 in. concrete paving, etc. Assessment Dist. 121 $19,056, Dist. 122 $42,863, Dist 123 $44,321, Dist. 124 $39,951 and Dist. 126 $29,609.

Mich., Kalamazoo—Allegan Co., grading and concrete paving 95,286 sq.yd. Federal Aid 140, Sect. B, from Lewis & Freisinger, Ann Arbor, $164,629, 31,166 sq.yd. Sect. A, and 26,091 sq.yd. Sect. C, same project, from W. H. Fredericks, Zeeland, $44,095 and $48,747 respectively.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., May 22, sheet asphalt surfacing, etc. East Water St., from Badger Constr. Co., 97 Wisconsin St., $40,008; also asphalt resurfacing Erie St and North Water St., from White Constr. Co., 68 Wisconsin St. $12,205 and $13,344 respectively. Noted May 20.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., May 20, from Czerwinski Constr. Co., 816 Clinton St., vibrolithic concrete paving Euclid Ave. $55,429, Ludlow Ave. $7,433, Mt. Vernon Ave. $11,314, and Park Hill Ave. $13,715, from J. Bluhm & Son, 1298 Achilles Pl., 46th St. $3,527, and 47th St. $3,028; and from Lincoln Constr. Co., 1487 13th Ave., concrete curbing and guttering Orchard St. $2,497.

Texas — State Hy. Comn., Austin, H. Moseley, chn., May 25, grading bridging, etc. 11.492 mi. Highway 29, State Aid Project 452, 26 ft., from Armstrong & Armstrong, 502 Houston Bldg., San Antonio, $66,400. Engrs. est. $68,000. Noted May 20.

Texas—H. Moseley, chn. State Hy. Comn., May 25, grading, bridging, etc. 3.69 mi. Highway 23, from Crouch & Nolan, Strawn, $106,111, engrs. est. $140,000; and 9.24 mi. same road State Aid Project 655-B, from C. H. Van Eman, Cisco, $42,231, engrs. est. $54,300. Noted May 20.

Colo., Denver — Dept. Impvts. & Parks, May 13, from Allied Contractors Inc., Majestic Bldg., asphaltic concrete paving South Capital Hill Paving Dist. 10 $38,854, Paving Dist. 11 $41,717, Paving Dist. 12 $40,654, and Paving Dist. 33 $54,847, from Leroy Constr. Co., Symes Bldg., Paving Dist. 13 $39,753.

Calif., Bakersfield — From Thompson Bros., 1514 H St., Fresno, improving Espee, 27th, 28th, 29th Sts., etc., 649,918 sq.ft. oiling and grading at $0.027 per sq.ft., 176 ft. curbing $0.60, 386 ft. guttering $0.30, etc.

Calif., Beverly Hills—D. J. Firminger, city clk., from Johnson & Sons, 4183 South Normandie Ave., Los Angeles, grading and Warrenite surfacing 931,901 sq.ft. Wilshire Blvd., $565,647; from Griffith Co., Railway Bldg., Los Angeles, 79,057 sq.ft. Stanley Dr. $26,525, 79,583 sq.ft. Realtor Rd., etc., $26,145, and 58,913 sq.ft. Hamilton Dr. $21,080. Noted May 20.

Calif., Eureka—From Mercer-Fraser Co., Eureka, improving Harris St., etc., 559,276 sq.ft. 3½ in. asphaltic concrete on 1½ in. Warrenite surfacing at $0.22 per sq.ft., 662,445 sq.ft. grading $0.07, etc. total $218,184; also from Englehart Paving & Constr. Co., Henderson and T Sts., 582,290 sq.ft. grading $0.085, 450,863 sq.ft. vibrolithic concrete paving $0.20, etc., total $195,176.

Calif., Hollister — E. Dowdy, clk. San Benito Co., asphaltic macadam surfacing 457,000 sq.ft. various streets, from Granite Constr. Co., Watsonville, $49,936. Noted June 3.

Calif., Los Angeles—Warrenite bitulithic surfacing, etc., 500,000 ft. Badger Ave. and Dock St., from Pan-Pacific Constr. Co., Citizens Natl. Bank Bldg., at $0.15 per ft. Noted May 27.

Calif., Oakland — From Hutchinson Co., 1706 Bway., improving 26th St. between Adeline St. and Peralta Ave., 59,815 sq.ft. grading at $0.06 per sq.ft., 37,649 sq.ft. 1½ in. Warrenite bitulithic on 6 in. concrete paving, $0.31, etc. Noted May 6.

Contracts Awarded

New Hampshire—State Hy. Dept., Concord, graveling 0.94 mi. road in Andover, and 0.64 mi. in Charlestown, to J. P. Ricci, Burlington, Vt., $22,227 and $19,197 respectively; asphalt paving 0.51 mi. in Hampton, to Winslow & Cummings, Nashua $14,054, 0.91 mi. in Pembroke, to Robie Constr. Co., Manchester $16,603, and 0.7 mi. in Boscanwan, to A. D. Bridges, Hazardville, Conn. $17,688. Noted May 20.

Mass., Athol—Dept. Pub. Wks., Boston, bituminous macadam paving 8,429 ft. highway, here, to Kelleher Bros., Turners Falls, $97,234. Noted May 27.

Mass., Brookline (br. Boston) — Bd. Selectmen, sheet asphalt paving Beacon St., to Warren Bros. Co., 9 Cambridge St., Boston, $24,752. Engrs. est. $25,000. Noted May 26.

Conn., New Haven—E. S. Nettleton, city engr., asphalt amiesite on concrete or batch concrete paving Edgewood Ave., to C. W. Blakeslee & Sons, 58 Waverly St., $37,280; and bituminous macadam paving Vista Terrace, to J. Daley, 16 William St., $8,200. Noted May 20.

New York—A. W. Brandt, comr. highways, Albany, **(e. e. means engineer's estimate)**, improving 2.39 mi. Repair Contr. 1496, Highways 5026 and 5094, Steuben Co., and 2.45 mi. Repair Contr. 502, Highway 5282, Seneca Co., to H. W. Patterson, Hornell, $93,882 and $74,577 respectively, e. e. $120,588 and $89,859 respectively; 2.91 mi. Repair Contr. 1501, Highway 5208, Chemung Co., to E. C. Jones, Salamanca, $114,988 e. e. $146,443; 4.9 mi. Repair Contr. 1495, Highway 1460, Saratoga Co., to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $136,368 e. e. $179,024; 4.67 mi. Repair Contr. 3143, Parts 1 and 2, Highways 250 and 271, Oneida Co., to Hogeboom & Campfield, Inc., Kingston, $238,184, e. e. $327,088; 0.87 mi. Highway 1562-A, Albany Co., to T. S. O'Brien, Albany, $33,176, e. e. $43,930; 2.44 mi. Repair Contr. 1497, Highway 5253, Steuben Co., to W. L. Collins, Hornell, $119,331, e. e. $155,871; 4.54 mi. Highway 8244, Part 2, Albany Co., to Belmar Contg. Co., Inc., Proctor Bldg., Troy, $194,825, e. e. $296,400; 3.07 mi. Repair Contr. 1499, Highway 624, Jefferson Co., to Miller, Hayes & Gillette Constr. Co., Watertown, $115,571, e. e. $137,901; 3.69 mi. Repair Contr. 1498, Highways 337, 9022-9023, Madison Co., to C. D. Murray, Syracuse, $149,111, e. e. $185,576; 3.45 mi. Repair Contr. 1491, Big Tree Highway 36, Erie Co., to John Irwin Contg. Co., Inc., Lockport, $160,205, e. e. $242,628; 3.3 mi. Repair Contr. 1492, Hughsonville Highway 222, Dutchess Co., to J. L. Dugan, Inc., Newburgh, $158,374, e. e. $200,382; 2.37 mi. Repair Contr. 1493, Part 1, Highway 188, Ontario Co., to Di Pillo & Balistreri Constr. Co., Geneva, $124,645, e. e. $152,975; 6 mi. Repair Contr. 1494, Part 2, Highway 5267, Jefferson Co., to Lord, Coopy & Furnia, Inc., Willsboro, $284,807, e. e. $338,044, and 9.62 mi. Highway 1685-A, Washington Co., to S. B. Van Wagenen, Inc., Kingston, $303,331, e. e. $397,201. Grand total $2,301,369. Noted Apr. 29.

New York — A. W. Brandt, comr. Highways, Albany, improving 1.04 mi. Highway 1724-1729, Lewiston Village-Center St. and Canada Bridge-Lewiston Highway, also 3.85 mi. Repair Contr. 1509, Highway 5305, Niagara Falls-Sanborn Highway, both Niagara Co., to Peoples Paving Co., Inc., 2842 Delaware Ave., Buffalo, $60,352 and $141,062 respectively; 4.51 mi. Repair Contr. 1517, Highway 5546, Evans Center Rd., Erie Co., and 2.96 mi. Repair Contr. 1514, Highway 5452, Irving-Silver Creek Rd., Chautauqua Co., to D. T. Ripton, Rochester, $264,221 and $197,882 respectively; 3.03 mi. Reconstruction 3146 Highway 247, Johnstown Kecks Center Rd., Part 2, Fulton Co., and Reconstruction 1513, Highway 5096, Fonda-Johnstown Rd., Montgomery Co., to Fitzgerald Bros. Constr. Co., Proctor Bldg., Troy, $160,103; 3.03 mi. Repair Contr. 516, Highway 533, West Chazy-Chazy Rd., Highway 433, Chazy-Chazy Landing Rd. and Highway 5199 Chazy-Rouses Point Rd., Clinton Co., to Lord, Coopy & Furnia, Inc., Willsboro, $197,605; 1.91 mi. Highway 1726, Phelps-Newark Rd., Part 1, Ontario Co., to M. C. Soper, Seneca Falls, $72,675; 2.4 mi. Repair Contr. 1512, Highway 5382, Fulton-Oswego Rd., Oswego Co., to DiPillo & Balistrari Constr. Co., Geneva, $90,447; 1.29 mi. Repair Contr. 1505, Highway 444, Riverside Dr. and Highway 5377, Riverside Dr.-Binghamton Rd., Broome Co., to Municipal Constr. Co., Utica City Natl. Bank Bldg., Utica, $55,302; 5.17 mi. Repair Contr. 1515, Highway 395, Medina-Alabama Rd., Orleans Co., to W. J. Gallagher, Medina, $207,497; 1.3 mi. Repair Contr. 1511, Highway 5111, Jericho-Turnpike Rd., Part 2, Suffolk Co., to Good Roads Eng. & Constr. Co., Port Chester, $60,642; 4.24 mi. Highway 8248, Ripley-Sherman Rd., Part 3, Chautauqua Co., to Webber Co., Sherman, $198,873. Grand total $1,633,986. Noted May 13.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sheet asphalt concrete paving and repaving East Tremont Ave., to Brusstar Constr. Co., Edgewater Rd. and Staff Ave., $185,757; curbing, sidewalks, etc. on La Salle St., to C. Turiano Contg. Co., East Tremont Ave., $6,694; grading, curbing and sidewalks on Edison Ave., to A. Gregorio & Co., 1121 Nicol Ave., $18,066; also on Wallace Ave. and grading, inlets, etc. on Paulding Ave., to L. Di Minna, 2366 Lawrence St., $2,529 and $3,598 respectively. Grand total $216,644. Noted May 27.

New York—A. W. Brandt, comr. Highways, Albany, improving 0.84 mi. Highway 5292-A, Truxton-DeRuyter Highway, Cortland Co., to G. D'Angelo, 84 Court St., Binghamton, $48,394 engrs. est. $63,883; and 3.8 mi. Highway 1727, Grove Corners-Hilton Highway, Monroe Co., to Stapell Mumm & Beals Corp., Gardenville, $146,824, engrs. est. $191,533. Noted May 20.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., grading and granite block repaving Forsyth St., to St. George Paving Co., 90 West St. $22,124, and 5th Ave. to Asphalt Constr. Co., 208 Bway., $80,324; widening and sheet asphalt repaving Madison Ave., to Uvalde Asphalt

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Streets and Roads (Continued)

Paving Co., 1 Bway., $39,735; also grading and asphalt block paving Stone St., to D. J. McCarthy, 88 Audubon Ave., $9,497. Grand total $151,680. Noted May 20.

N. J., New Brunswick — Middlesex Co., concrete paving ¾ mi. Stelton-New Market Rd., to C. Sebolt, 16 Rochmond St., $30,415; and Woodbridge Ave., to Graham & McKeon, 319 Oak St., Perth Amboy, $55,224. Noted May 13 and 20.

Pennsylvania—State Hy. Dept., Harrisburg, **(A. means Application and R. means Route)**, grading and rein.-con. paving, etc., 9,558 sq.yd. R. 151, Montgomery Co., to Fish-Rutherford, Inc., 2313 Walnut St., Phila., $89,102; 69,686 sq.yd. Rs. 310 and 382, Berks Co., to Ambler-Davis Co., Harrison Bldg., Phila., $293,442; 9,172 sq.yd. R. 3581, Allegheny Co., to A. G. Rothey, Elizabeth, $44,698; 60,840 sq.yd. A. 3842, Sect. 1, Berks Co., to Leonard Paving Co., Inc., 233 Bway., New York City, N. Y., $235,460; 35,586 sq.yd. R. 213, As. 3936 and 4100, also A. 3935, both Mercer Co., to Jamieson & Knapp, Fredonia, $133,477 and $87,499 respectively; also 27,957 sq.yd. A. 3856, Dauphin Co., to York Eng. & Contg. Co., York, $97,893. Grand total $981,571. Noted Mar. 18 and Apr. 29.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to R. B. Wenner, 2313 Walnut St., grading Bigler St. $1,499, E. Emerson, Halstead, Hoffnagle, Ryers Sts. $4,010, and Marvine St. $944, to Dewees Bros., 7200 Shelburne St., Fraley St. $1,360, to E. A. Mullen, 5512 Vine St., 66th St. $1,667; to Eastern Asphalt Co., Penna Bldg., asphalt paving (assessment work), Anchor and Carver Sts. $7,385, Baynton St. $3,079, Chelwynde, Dicks, Garman, Guyer, Sylman, 69th and Theodore Sts. $34,159, asphalt repaving Corlies and Stanley Sts. $24,946; to Barber Asphalt Co., 239 North 30th St., asphalt paving (assessment work), Conshohocken St. $44,775, Cottman St. $76,117, Cottman St. between Rowland and Sackett Sts. $19,162, Craig and Decatur Sts. $15,579, 7th St. $10,243, and 54th St. $5,664, to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., Dorset St. $17,262, Haworth St. $2,765, and asphalt repaving Worth St. $24,964; to Union Paving Co., 123 South 21st St., asphalt paving 54th St. between Columbia and Overbrook Sts., $119,357; to United Paving Co., Real Estate Trust Bldg., redressed granite block repaving Filbert St. (south track) north side of City Hall, Broad St. and Market St. between Broad and 15th Sts. $5,680, improving Flamingo, Lawn, Newland and Silverwood Rds. $20,671, Fry St. $7,685, Rodney and Thomson Rds. $14,138, to A. J. Henderson, 825 East Washington Lane, Ardleigh Rd. $1,452, to Benjamin Foster Co., Inc., 10th and Venango Sts., Mt. Airy and Mt. Pleasant Rds. $9,670, St. George's Rd. $6,779, and intersection of 68th St. and Springfield Ave., 67th St. and Beaumont Ave. and Cobb's Creek Parkway $4,034; to Atlantic Refining Co., 260 South Broad St. furnishing asphalt cement $28,815; to Van Sciver Corp., 24th St. and Parkway, crushed stone $3,075, and crushed pebbles $2,475; and to Miles-Billing Co., Penna Bldg., crushed slag $2,625. Grand total $511,036. Noted May 13.

Pa., Westmont — Boro Council, H. P. Shomo, pres., Greene St., 6 in. rein.-con. paving, etc. 15,000 sq.yd. Luzerne St., to F. L. James, Johnstown, $69,695. Noted May 13.

Maryland—State Rd. Comn., Baltimore, concrete shoulders on 5.2 mi. Contr. Ho-7-A, Howard Co., to Catalano & Picora Constr. Co., Old Town Natl. Bank Bldg., Baltimore, $34,934. Noted Apr. 22.

Maryland—State Rd. Comn. ,Baltimore, concrete paving 1.27 mi. Contr. H-47, to G. A. Atkinson, Port Deposit, $43,044; and 1 mi. Contr. H-49, to Ward & O'Connell, 3114 Presbury St., Baltimore, $21,813, both Harford Co. Noted Apr. 29.

Maryland — State Roads Comn., Baltimore, concrete paving 1 mi. Contr. F-91, Frederick Co., to L. R. Waesche, Thurmont, $17,388; and 1.38 mi. Contr. B-73, Baltimore Co., to E. C. Valentine, Rocky Ridge, $26,018. Noted May 20.

Maryland—Macadam resurfacing 1.6 mi. Contr. H-48, Harford Co., and 0.91 mi. Contr. H-38, Harford Co., to T. B. Gatch & Sons, Raspeburg, Baltimore, $21,092 and $17,102 respectively; concrete paving 1.5 mi. Contr. CO-39, Caroline Co., to P. D. Phillips & Bro., Salisbury $27,829, and 1 mi. Contr. F-92, Frederick Co., to M. J. Grove Lime Co., Lime Kiln, $24,921. Grand total $90,944. Noted May 27.

Maryland — State Roads Comn., Baltimore, macadam resurfacing 2.4 mi. Contr. W-25, Washington Co., to Bester, Long Co., Hagerstown $28,894, and 1.2 mi. Contr. F-60, Frederick Co., to Poffinberger & Mause, Myersville, $19,121; concrete paving 2 mi. Contr. B-78, Baltimore Co., to H. D. Campbell & Sons Co., Towson $65,743, and 1.44 mi. Wi-34, Wicomico Co., to P. D. Phillips & Bro., Salisbury, $30,686. Grand total $144,454. Noted May 13.

Va., Richmond — Director Pub. Wks., grading, curbing, guttering and vitr. brick on 6 in. concrete with asphalt filler paving 5,900 sq.yd. Meadowbridge Rd., to Anderson & Maynard, Amer. Natl. Bank Bldg., $24,318, engrs. est. $36,100; grading, curbing, guttering and sheet asphalt on 6 in. concrete paving 46,800 sq.yd. and granite block paving 11,600 sq.yd. various streets, to McGuire & Rolfe, 1009 Brook Rd., $150,571, engrs. est. $232,000.

W. Va., Morgantown—W. E. Brooks, city mgr., vitr. brick paving Cotten Ave. and 4 other streets, to Cole Bros. Constr. Co., Morgantown, $33,520; and Clark, Euclid, Maple and Elm Sts., to Consolidated Constr. Co., Morgantown, $26,874.

South Carolina — State Hy. Dept., Columbia, concrete paving, etc., 1.9 mi. State Route 21, State Project S-508, and 2.7 mi. State Route 20, State Project S-618, to B. H. Martin, Easley, $58,140 and $71,901 respectively, and 0.6 mi. Paris Mountain Rd., to Ballenger Paving Co., Greenville, $18,048, both Greenville Co., 6.4 mi. Route 2, Federal Aid Project 49, Newberry Co., to Southern Paving Constr. Co., Volunteer Life Bldg., Chattanooga, Tenn., $171,150, and 5.7 mi. Route 8, Federal Aid Project 243-A, Spartanburg Co., to W. A. Dicus, Clinton, $50,100; sand clay surfacing, etc., 11.5 mi. State Route 50, Federal Aid Project 266-A, Kershaw Co., to Langford & Wicker, Newberry, $76,681; grading and topsoiling, etc., 3 mi. State Route 9, State Project S-622-A, Chester Co., to J. L. Carroll, Columbia, $8,673; and six 15 ft. span treated timber bridge over Lightwood Creek, State Route 24, State Project S-545, Lexington Co., to Gibson Constr. Co., Savannah, Ga., $3,572. Grand total $458,265. Noted May 13.

Fla., Tampa — City Comrs., P. Wall, mayor, to W. L. Harwell, 721 South Orleans Ave., 2½ in. asphalt block or vitr. brick on rock or shell paving 9,000 sq.ft. Impvt. 54 to 56 (inclusive), Flagler, Oakwood and Elwood Aves., $28,000, and 58,000 sq.yd. Impvt. 1, portion of Flo Ave., $150,000, 2½ in. asphalt block or vitr. brick on rock or shell paving 10,000 sq.yd. Impvt. 60, portion of Clark St., $26,000, 10,000 sq.yd. Impvt. 57 to 59 (inclusive), Hemlock Ave. and Chapin St., $28,000, 2½ in. asphalt block or 3 in. vitr. brick on rock or shell base paving 80,000 sq.yd. Impvt. 254, Fuller St. and Massachusetts Ave. $25,000, 9,000 sq.yd. Impvt. 5 to 9 (inclusive), $25,000, 9,000 sq.yd. Impvt. 15-16-21-51, Kriber St., etc., $25,000, 9,000 sq.yd. Impvt. 52 to 61 (inclusive), portion of 22nd St. and Saxon Ave. $30,000, and 10,000 sq.yd. Impvt. 53, portion 22nd St. $28,000. Grand total $365,000. Noted Apr. 1.

Miss., Lucedale—Bd. Supervs. George Co., improving 7.351 mi. Lucedale-Pascagoula Highway, 10 acres clearing and grubbing, 21,386 cu.yd. excav., etc., to Doddie Constr. Co., Laurel. Noted Apr. 29.

La., Jennings—Comrs. Meadow Prairie & Pine Island Road Dists., constructing 3 mi. gravel road, to Wimberly & Barbour, Crowley, and to Fox Lumber Co., Lake Charles, about $40,000.

La., Lafayette—Bd. City Trustees, City Hall, approximately 11 mi. cement sidewalks on various streets, to C. E. Rabalais, Bunkie, $44,255.

La., Ruston—Will grade, curb and pave 7 blocks Arizona, Cherry and Sparta Sts., by day labor. $25,000.

La., Shreveport—City Council to Shreveport Paving Co., Shreveport, rock asphalt paving 1,836 sq.yd. Lister St. $7,312, and 1,843 sq.yd. Herndon Ave. $7,338; to Southern Roads Co., Amer. Trust Bldg., Birmingham, Ala., asphaltic concrete paving 8,696 sq.yd. Fulton St. $33,447, 2,470 sq.yd. Logan St. $10,070, 1,400 sq.yd. Layacca St. $5,108, and 912 sq.yd. San Jacinto St. $3,200. Grand total $66,475. Noted May 13.

Ohio—Dept. Highways & Pub. Wks., Columbus, to D. A. Phillips & Son, Ashland, grading, and concrete paving 3.954 mi. Sect. "C" Ashland-Medina Rd., Ashland Co. $154,445, to Springer & Springer, Wheeling, W. Va., 0.464 mi. Sect. "K" National Highway $31,106, 0.472 mi. Sect. "A-2" Ohio River Rd. $32,884, and 0.017 mi. same road, $12,929, all foregoing in Belmont Co., to Lewis & Copeland, Lima, 1.636 mi. Sect. "O" Cleveland-East Liverpool Rd., Columbiana Co. $49,289, to R. J. Au, Mansfield, 0.539 mi. Sect. "Oberlin" Oberlin-Lorain Rd., Lorain Co. $17,104, 0.249 mi. Sect. "M-1" same road $8,127, to Putnam Constr. Co., Toledo, 2.066 mi. Sect. "B-2" Marion-Mt. Gilead Rd., Marion Co. $62,185, 0.497 mi. Sect. "G" Ottawa-Grand Rapids Rd., Wood Co. $15,174, and 0.788 mi. Sect. "Grand Rapids" same road $24,432, bituminous macadam paving 2.995 mi. Sect. "B" Bucyrus-Clyde Rd., Crawford Co. $71,553; to Modern Constr. Co., Fremont, grading and concrete paving 5.06 mi. Sect. "Y" Lima-Sandusky Rd., Sandusky Co. $140,202, to L. L. Cramer, Buffton, 1.98 mi. Sect. "D" Marysville-Marion Rd., Union Co. $53,776; to Crane & Jordan, Blanchester, traffic bound macadam paving 7.2 mi. Sect. "A" Fairfield-Williamsburg Rd., Clermont Co., $[illegible]; to Tri-State Constr. Co., Youngstown, bituminous macadam, tar paving 2.3[illegible] mi. Sect. "X" Canfield-Poland Rd., Mahoning Co., $32,264, to E. O. Uncapher, Marion, bituminous macadam paving 1.31 mi. Sect. "G" Delaware-Marion Rd., Marion Co. $38,342, to W. M. Gray, 408 Fairwood Ave., Columbus, 3.628 mi. Sect. "D" New Philadelphia-Carrollton Rd., Tuscawaras Co., $155,190; to L. G. Booth, Painesville, concrete and Hillside brick paving 3.84 mi. Sect. "D" Solon-Willoughby Rd., Lake Co., $159,432; to Dunsweiler Constr. Co., Zanesville, brick, incl. brick paving 4 mi. Sect. "C" Newark-Walhonding Rd., Licking Co., $127,135; to Austin & Carey, Kenton, Kentucky rock asphalt paving 4.17 mi. Sects. "K" and "J" Delaware-Marion Rd., Marion Co. $96,399, also 3.74 mi. Sects. "B" and "C" same road, $89,080; to F. H. Beckler, Athens, graveling 14 mi. Sect. "A," etc. Chester-Reedsville Rd., Meigs Co., $16,050; to Koffroth & Owens, Richwood, surface treated macadam paving 2.87 mi. Sect. "D" Delaware-Marysville Rd., Union Co., $51,754; to H. J. Hart, Elyria, slag and waterbound macadam widening 4.375 mi. Sect. "E" Cleveland-Meadville Rd., $21,610, and 4.288 mi. Sect. "L" and portion of "M," Hampden-Andover Rd., $22,919, both Ashtabula Co.; to Ideal Constr. Co., Upper Sandusky, concrete widening 0.89 mi. Sect. "F" Lima-Kenton Rd., Hardin Co., $7,077; to A. E. Guilford Co., Metropolitan Bldg., Akron, brick widening 4.01 mi. Sects. "A" and "B" Akron-Massillon Rd., Summit Co., $64,046; to Merry & Miller, Caldwell, grading, etc., 3.875 mi. Sect. "O" Barnesville-Bellaire Rd., Belmont Co. $37,647, to C. Fox, Bradner, 6.411 mi. Sects. "V-1," "W" and "V-2," Cleveland-East Liverpool Rd., Portage Co. $31,136, and to D. A. Orr Co., Columbus, 0.388 mi. Sect. "J" Wooster-Loudonville Rd., Wayne Co. $19,022; to Brilhart & Wright, Warsaw, furnishing, hauling and spreading limestone on Sects. "K-3" and "S" McConnelsville-Caldwell Rd., Morgan Co., $9,901. Grand total $1,656,499. Noted May 6.

O., Cincinnati — Director Pub. Wks., granite curbing, cement sidewalks, granite block paving 3,800 sq.yd. Plum St., to Hannon-Hughes Constr. Co., 312 East 8th St., $55,246. Engrs. est. $63,812. Noted May 20.

O., Cleveland — To Roehl Bros. Paving Co., 7002 Denison Ave., grading, curbing and concrete paving Mt. Vernon Ave. $1,523, brick paving Western Ave. $45,066, asphalt paving Addin Ave. $8,172, Schiller Ave. $24,772, Ardmore Ave. $13,708, and West 148th St. $16,173, to Rieley Bros., The Arcade, East 18th St. $12,932, East Blvd. $74,665, to H. G. Herring, Wayside Rd., Burnside Ave. $8,726 and concrete paving Glen Ave. $6,159; to Gould & Maybach, 16311 Saranec Rd., brick paving Linn Dr. $14,423 and East 117th St. $2,753; to Enterprise Paving & Constr. Co., 8444 Bway., concrete paving Cardwell Ave., $14,753; to Bentley Bros., Hanna Bldg., sheet asphalt paving East 30th St. (2 sections) $35,362 and $12,962. Grand total $292,149. Noted May 13.

O., Cleveland — To Cleveland Trinidad Paving Co., The Arcade, grading, curbing, guttering and brick paving Kazimer Ave. $22,372, Alger Ave. $27,924, and Craven Ave. $38,127, asphalt paving Prince Ave. $41,501, Nelson Ave. $23,356, concrete paving Abell Ave. $23,582, Crestline Ave. $5,956, Minor Ave. $4,263 and Botany Ave. $11,337. Grand total $198,418.

O., Cleveland—Concrete resurfacing 206,950 sq.yd. Berea Rd. (2 sections), to Baldwin Bros., 4500 Euclid Ave., $49,902 and $108,521.

Mich., Detroit—To Detroit Asphalt Paving Co., 909 Transportation Bldg., sheet asphalt paving 4,220 sq.yd. Justine Ave. $17,845, 8,410 sq.yd. Buffalo Ave. $33,257, 4,275 sq.yd. Georgia Ave. $17,813, 2,920 sq.yd. Culvert Ave. $12,538, 2,790 sq.yd. Huntington Ave. 54,401, 5,340 sq.yd. Elmira Ave. $21,717, 3,180 sq.yd. Cedarlawn Ave. $13,223, 5,280 sq.yd. Crocuslawn Ave. $22,040, 1,890 sq.yd. Amos Ave., $8,224, 3,200 sq.yd. Saratoga Ave. 13,648, 2,285 sq.yd. Cedar Grove Ave. $9,650, 1,820 sq.yd. Essex Ave. $8,224, 8,150 sq.yd. Cadet Ave. $34,808, 6,250 sq.yd. Chatsworth Rd. $25,045, 3,740 sq.yd. Military Ave. $16,345, 5,630 sq.yd. Avis Ave. $24,137, 4,090 sq.yd. Holmur Ave. $16,702, 3,250 sq.yd. Otto Ave. $13,643, and 13,450 sq.yd. Dorris Ave. $54,401; to Cleveland Trinidad Paving Co., 402 Hammond Bldg., 1,400 sq.yd. Hawthorne Ave., 6,539 to M. R. Hanna Co., 2700 Six Mile Rd.,

Streets and Roads (Continued)

6,280 sq.yd. Centerline Ave. $24,713, 9,650 sq.yd. Ilene Ave., $36,341 and $5,625 sq.yd. Griggs Ave. $21,142. Grand total $506,396.

Mich., Detroit—Dept. Pub. Wks., to M. R. Hanna Co., 270 Six Mile Rd., sheet asphalt paving 19,850 sq.yd. Harper Ave. $76,518, 5,320 sq.yd. Waltham Ave. $22,134, 8,300 sq.yd. Greeley Ave. $33,741, 2,180 sq.yd. Swift Ave. $8,997, 6,630 sq.yd. Russell Ave. $26,663, 8,490 sq.yd. Mettetal Ave. $34,648, 8,550 sq.yd. Marys Ave. $34,790, 24,500 sq.yd. Cadieux Ave. $96,482, and 5,910 sq.yd. Wayburn Ave. $24,618; to Cleveland Trinidad Paving Co., 402 Hammond Bldg., 1,890 sq.yd. Tuller Ave. $8,255; to Detroit Asphalt Paving Co., 909 Transportation Bldg., 3,445 sq.yd. May Ave. $15,723, 2,160 sq.yd. Goldsmith Ave. $10,029, 2,950 sq.yd. Hollywood Ave. $13,362, 2,260 sq.yd. Syracuse Ave. $10,028, 3,260 sq.yd. Farr Ave. $15,044, 6,770 sq.yd. Moenart Ave. $28,119, 965 sq.yd. Rowley Ave. $4,215, 2,255 sq.yd. Bonaparte Ave. $10,125, 6,680 sq.yd. Grixdale Ave. $29,942, 7,000 sq.yd. Daws Ave. $28,812, 6,340 sq.yd. Drexel Ave. $26,668, 2,210 sq.yd. Coplin Ave. $9,563, 2,200 sq.yd. Cope Ave. $9,490, 2,200 sq.yd. Anderdon Ave. $9,464, 1,920 sq.yd. Newport Ave. $8,151, 1,545 sq.yd. Eugene Ave. $6,515, 7,410 sq.yd. Courville Ave. $30,632, 2,325 sq.yd. Birwood Ave. $9,737, 4,375 sq.yd. Lenox Ave. $18,820, 4,025 sq.yd. 14th Ave. 18,289, 670 sq.yd. Sarvis Pl. $3,347, 7,280 sq.yd. Morrow Ave. $29,748, and 2,600 sq.yd. Meldrum Ave. $12,306. Grand total $724,975.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete paving 13.6 mi. Route 39, Sects. 2, 3, and 4, McLean Co., to W. C. Meneely Co., Decatur, $269,687, 7.49 mi. Route 31, Sect. 14, Schuyler Co., to M. Hayes & Son, 209 South La Salle St., Chicago, $150,717, Route 16, Sect. 5-W, Coles Co., to Etchison-Patterson Constr. Co., Casey, $3,754, Route 1, Sect. 15-X, Lawrence Co., to L. R. Harshman, Sullivan, $2,602, Route 43-A, Sects. 2-W and 2-W-1, Menard Co., to McElwee & Rogy, Peoria, $3,056 and $10,356 respectively, 0.07 mi. Route 1, Sects. 20-X and 21-X, Crawford Co., to O. Arnold, Casey, $2,175 and $6,209 respectively, 1.09 mi. Route 3, Sect. 33, Warren Co., to J. L. Wells Co., Rock Island, $21,730, all above roads 18 ft. wide, also 3.93 mi. Route 31, Sect. 17, Fulton Co., 18 ft., and gravel surfacing 0.13 mi. same road, to H. A. Carpenter, Brazil, Ind., $114,826. Grand total $585,112. Noted Apr. 15, 29 and May 13.

Wisconsin — State Hy. Dept., Madison, concrete paving, etc., 60,487 sq.yd. Milladore-Junction City Rd., Portage Co., to Nickell-Grahl Constr. Co., Medford, $153,392, and 42,502 sq.yd. Marshall-Sun Prairie Rd., Project 387-A, to F. Doherty Co., 37th St. and Fond du Lac Ave., Milwaukee, $102,835; also graveling, etc., 1,037 cu.yd. Marshall-Sun Prairie Rd., Project 387-A, to Kramp Constr. Co., Berlin, $115,417. Grand total $371,644.

Wis., Clintonville — Waupaca Co. Hy. Comn., J. Huffcutt, comr., grading, 18 ft. concrete paving, etc., 2,765 sq.yd. North 4th and 12th Sts., to L. A. Larsen, Oshkosh, $28,097. Noted Dec. 10.

Wis., Madison — W. R. Winckler, clk., curbing, guttering and concrete paving various streets, to McQuinn, 515 West Johnson St., $92,252; to J. R. Cullinare, 618 West Dayton St., $88,838; to J. Icke, Washington Bldg., $102,426; and to O'Dea & Schafer, General Delivery, $59,873. Grand total $343,389. Noted Mar. 18.

Wis., Manitowoc — Vibrolithic concrete paving, etc., 30,000 sq.yd. streets on south side, to Manitowoc Constr. Co., 826 South 8th St., at $1.25 per sq.yd.; and one course concrete paving, etc., 10,000 sq.yd. streets on north side, to Cherney Constr. Co., Francis Creek, at $2.08 per sq.yd.

Wis., Milwaukee — Dept. Pub. Wks., vibrolithic concrete paving Swain St. to Czerwinski Constr. Co., 816 Clinton St. $13,765, 26th St., to J. Bluhm & Son, 1298 Achilles Pl. $11,393, 59th St. and Sherman Blvd., to A. E. Retzlaff, 868 Island Ave. $19,919 and $7,922 respectively; sidewalks on Wells St., and concrete paving 2 alleys to Schwerm Bros., 50 Lee St. $621 and $7,495 respectively; and concrete paving 1 alley, to Reid & Mahlberg, 818 Lake Blvd. $3,279, 2 alleys, to F. Hilderbrand, 1042 23rd Ave. $7,188 and 1 alley, to Ryback & Sadowski, 1092 2nd Ave. $917. Grand total $72,499. Noted May 20.

Wis., Milwaukee—Dept. Pub. Wks., to Froemming Bros., 1326 Humboldt Ave., vibrolithic concrete paving 18th St. $7,137, 20th St. $9,268, and Weil St., $22,394, F. W. Blodgett, 521 Newton Ave., Franklin St. $42,249, Hubbard St. $7,158, Locust St. $9,621, and 19th St. $7,848, to Czerwinski Constr. Co., 765 National Ave., South Water St., $8,129, to Gumz & Switalski, 3rd Ave. $23,983, and Trowbridge Ave. $15,759; and to N. Harris, 417 Juneau Pl., sidewalks on Cedar St. $1,523. Grand total $155,069. Noted May 6.

Wis., Monroe—C. J. Smith, comr. Green Co., concrete paving, etc. 37,100 sq.yd. Monroe-Argyle Rd., and 30,400 sq.yd. West Brodhead-Albany Rd., to J. O. Legreid, Stoughton, $114,554 and $62,333 respectively.

Ia., Algona—Kossuth Co., grading 173,279 cu.yd. primary roads, to M. T. McGuire, Algona, $38,641. Noted Apr. 15.

Ia., Iowa City — Johnson Co., grading, etc., 12.31 mi. roads, 87,000 cu.yd. excav., 36,000 sta.yd. overhaul, etc., to W. A. Moore, Hector, Minn., $26,939.

Ia., Rock Rapids — Lyons Co., grading, etc. 136,042 cu.yd. Secondary and Primary Projects S-74, S-75 and S-76, to C. W. McNamara, Sioux Falls, S. D., $32,380.

Ia., Cedar Rapids — Linn Co., grading Lincoln Highway to Benton Co. line, to G. H. Lowe, Slayton, Minn., $30,183. Noted Apr. 8.

Ia., Sioux City—Curbing, guttering and 6 in. concrete paving 5,700 sq.yd. Dodge and Paxton Sts., to Booth & Olson, 318 Grain Exch. Bldg.; and 5,000 sq.yd. Glass St., to Western Asphalt Paving Corp., 1st St. and Nebraska Ave.

Minn., St. Paul—G. J. Reiss, aud. Ramsey Co., improving Frost Ave. between White Bear Ave. and Keller Parkway, 10,150 cu.yd. excav., 21,730 sq.yd. 7.5 in. rein.-con. paving and 10,725 sq.yd. rein.-con. shoulders, to Peyen Constr. Co., 277 Burgess St., $49,565. Noted April 22.

Kan., Russell—Clerk Russell Co., grading, culverts and triple box bridge on 5.126 mi. Federal Aid Project 301-C, to Hall-Hardman Constr. Co., Alton, $32,915. Noted Apr. 22.

South Dakota — For State Hy. Comn., Pierre grading Federal Aid Project 158 B, Clay Co., to W. R. Larson Constr. Co., Sioux Falls, $57,805; and Federal Aid Project 162 C, Jackson Co., to N. J. Olson, Scenic, $72,876.

Wyoming—State Hy. Dept., Cheyenne, road work, to F. A. Bundy, Cheyenne, $7,521; surfacing 7.5 mi. roads, to Tyler & Baker Constr. Co., Rock River, $18,418; culvert and bridge work, to N. A. Swenson, Laramie, $4,980; also grading, culvert and pile trestle work, to Wickham Bros., Billings, Mont, $54,619; pile trestle work, to C. M. Smith, Thermopolis, $2,384. Grand total $87,922.

Missouri — State Hy. Dept., Jefferson City, to Hurtzen & Sayer, St. Louis, grading 0.154 mi. Troy-St. Charles Co. Line Rd., Lincoln Co. $3,667, to M. Haase, St. Joseph, 3.978 mi. Carrollton-Brunswick Rd., Carroll Co. $19,502, 4.084 mi. same road $18,920; to G. W. Condon, Omaha, 30 ft. grading 3.978 mi. same road $26,432, to Hamilton & Hoffman, Carbondale, Ill., 1.5 mi. East Fork Chariton Creek-Macon Rd., Macon Co. $22,932, to Koch & McGlone, Calhoun, 3.141 mi. road from Harrisonville south, Cass Co. $12,966, 4.442 mi. same road $20,381, and 4.753 mi. same road $14,585; to Cook O'Brien Constr. Co., Kansas City, grading and 18 ft. concrete paving 4.547 mi. road from Sedalia north, Pettis Co. $164,311, to V. E. Koch, Joplin, 2.417 mi. Jasper-Barton Co. line Rd., Jasper Co. $49,171, to Harrison Eng. & Constr. Corp., Kansas City, 2.607 mi. Union East-U. S. Route 60, Franklin Co. $60,351, and 4.779 mi. same road $153,456; to Stonner & Deering, Chamois, 30 ft. grading and 18 ft. graveling 0.117 mi. Union East-U. S. Route 60, Franklin Co. $36,822; to Newton Constr. Co., Columbia, 16 ft. graveling 4.615 mi. Martinsburg-Wellsville Rd., Montgomery Co. $15,364; to B. D. McColby & Son, Rensselaer, Ind., 18 ft. graveling 4.933 mi. road from Slater east, Saline Co. $9,884, and 4.115 mi. same road $7,547, to Chaney & Amyx, Licking, 0.84 mi. Thayer-Alton Rd., Oregon Co. $6,836, to Tyner Constr. Co., Kansas City, grading and 18 ft. concrete paving 3.129 mi. Rich Hill-Nevada Rd., Vernon Co. $50,218, 5.119 mi. same road $57,596, 1.236 mi. road through Nevada, Vernon Co. $30,265, 4.364 mi. Dodson-Hickman Mills Rd., Jackson Co. $102,018, 3.02 mi. Marshall-Slater Rd., Saline Co. $23,486, grading, 4 ft. graveling and 9 ft. concrete paving 4.564 mi. same road $36,106, 4.886 mi. Butler-Vernon Co. line Rd., Bates Co. $86,144, grading and 18 ft. concrete paving 3.593 mi. same road $41,261, 4.051 mi. Butler-Vernon Co. line Rd., Bates Co. $47,999, to Cameron Joyce Smith Elder Co., Keokuk, Ia., 2.337 mi. Bowling Green-Lincoln Co. line Rd., Pike Co. $138,544, 2.751 mi. New London-Pike Co. line Rd., Ralls Co. $39,519, 2.557 mi. same road $35,867, 3.953 mi. Bowling Green-Lincoln Co. line Rd. $78,106, 4.53 mi. Ralls Co. line-Bowling Green Rd. $148,927, and 3.86 mi. same road $88,964, all Pike Co.; to W. A. Ross Constr. Co., Kansas City, 30 ft. grading 1.358 mi. Grays Summit-St. Clair Rd., Franklin Co. $71,670, grading and 18 ft. concrete paving 3.724 mi. Lincoln Co. line-Wentzville Rd., St. Charles Co. $122,177, 3.078 mi. same road $116,237, and 0.492 mi. Troy-St. Charles Co. line Rd., Lincoln Co. $25,361, also to C. H. Atkinson, Waterhouse, S. D., 4.653 mi. Brookfield East Route 5, Linn Co. $58,699, and 1.856 mi. same road $23,369. Grand total $2,005,086. Noted Apr. 29.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, to Webb Boone Paving Co., 5103 Fyler Ave., asphaltic concrete paving, etc., 4,220 sq.yd. Clinton Ave. $24,956, and asphalt paving, etc., 3,150 sq.yd. Magnolia St. $23,715; to Parkinson Bros. Constr. Co., 3237 Carter Ave., brick on concrete paving, etc., 2,645 sq.yd. Thrush St. $17,701; to Bridges Asphalt Paving Co., Buder Bldg., asphaltic concrete paving, etc., 770 sq.yd. Cora St. $6,198, 1,305 sq.yd. Farlin St. $8,790, asphalt paving, etc., 3,095 sq.yd. Garfield Ave. $20,182, and 4,610 sq.yd. Harney St. $33,501; to C. A. Moreno, Syndicate Trust Bldg., asphaltic concrete paving, etc., 3,650 sq.yd. Osceola St. $21,100, and to Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., 7,805 sq.yd. Garfield Ave. $27,549; also to Central Paving & Constr. Co., 6161 Maple St., Warrenite paving, etc., 9,555 sq.yd. Connecticut St. $41,285, and 13,275 sq.yd. Wyoming St. $53,895. Grand total $278,872. Noted Feb. 11.

Tex., Hondo—Walton & Arneson, engrs., c/o Gunter Bldg., San Antonio, to Coflazier & Hoff, 910 Austin St., San Antonio, 1 in. bituminous surfacing 11.55 mi. Highway 3, Sect. A, Unit 2, Federal Aid Project 270, $57,964 engrs. est. $62,000, 10.47 mi. same road, Sect. C, $53,392 engrs. est. $56,000, and 7.85 mi. same road, Sect. D, $39,404 engrs. est. 42,000, all above for Medina Co. Grand total $150,760. Noted May 13.

Tex., Wichita Falls—Rein.-con. paving 9 blocks various streets, to L. E. Whitham & Co., Wichita Falls, at $2.90 per sq.ft.

Idaho — Comr. Pub. Wks., office County Comrs., Arco, improving 15.06 mi. Federal Aid Project 117-A, and Federal Aid Project 118-A, to Drummie & Toller, Downey, $56,550; also constructing three 34 ft. span concrete bridge on Federal Aid Project 118-A, and 60 ft. span concrete bridge on Federal Aid Project 118-A, Butte Co., to E. P. Bennett, Boise $17,389. Noted Apr. 29.

Idaho—Commissioner Pub. Wks., office Bannock Co. Comrs., Pocatello, crushed stone surfacing, etc. 56,204 cu.yd. Federal Aid Project 112-A, Bannock Co., to C. A. Robinson, Twin Falls, $137,801. Noted Apr. 29.

Idaho — Commissioner Pub. Wks., c/o Comrs. Bear Lake Co., Paris, grading, surfacing, etc. 8.16 mi. Federal Aid Project 96-B, to Union Constr. Co., Ogden, Utah, $60,406. Noted Apr. 29.

Idaho, Idaho Falls—Comrs. Bonneville Co., grading, bituminous concrete paving, etc., 7.72 mi. Federal Aid Project 14-B and 21-B, Roosevelt and Yellowstone Highways between Idaho Falls and Rigby, to Morrison Knudson Co., Boise, $191,235.

Nevada—State Hy. Dept., Carson City, grading and surfacing 15.15 mi. road from point 7 mi. north of county line to point 5 mi. south of Connors Pass, White Pine Co., to W. Hoops, McGill, $41,131, and 22.48 mi. road from Dutch Johns to point 7 mi. north of county line, White Pine and Lincoln Counties, to Dodge Bros., Inc., Fallon, $60,540; surfacing 6 mi. road from point 6 mi. west of Robinsons Summit to Robinsons Summit, White Pine Co., to J. Ross, Yerington, $22,182, and 5.4 mi. road from west of county line to Virginia City, Storey Co., to J. N. Tedford, Fallon, $19,689. Grand total $143,542. Noted May 27.

California—State Hy. Comn., Sacramento, (**e. e. means engrs. est.**), concrete widening and asphaltic concrete surfacing approximately 5.1 mi. road between Santa Barbara and Goleta, Santa Barbara Co., to Cornwall Constr. Co., Santa Barbara, $134,709, e. e. $148,008; asphaltic concrete widening and surfacing 2.8 mi. road between point 1 mi. south of Delano and northerly boundary, Kern Co., to Warren Constr. Co., Oakland, $49,419, e. e. $50,928; also concrete widening and bituminous macadam surfacing 6.9 mi. road between San Juan Bautista and Hollister, San Benito Co., to Granite Constr. Co., Watsonville, $133,879, e. e. $131,854. Grand total $318,007. Noted Apr. 22 and May 13.

California—State Hy. Comn., Sacramento, grading and crushed stone surfacing 8.5 mi. road between point 2 mi. east of Sportsmans Hall and Riverton, to Irey & Holden, Lodi, $51,488. Noted May 27.

Calif., Los Angeles — Los Angeles Co., improving Rd. Dist. Impvt. 286 (portion of Artesia Ave.), to United Concrete Pipe & Constr. Co., Ventura, $85,413. Noted May 13.

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Streets and Roads (Continued)

Calif., Los Angeles—Grading and concrete paving approximately 245,000 sq.ft. North Sherman Way between Mulhalland St. and San Fernando Rd., to P. L. Hedrick, 1016 Sanborn Ave., approximately $53,766; and 298,919 sq.ft. Tajunga Ave. between Central Ave. and Ventura Blvd., to Tryon & Brain, Tajo Bldg., approximately $144,525.

Calif., Marysville—Yuba Co., Warrenite bitulithic paving Hammonton Rd., to Warren Constr. Co., 28th and Poplar Sts., Oakland, $32,065.

Calif., Marysville — Grading, curbing, guttering, walks and asphaltic concrete paving, etc. Willow, Orange Sts., etc., to Warren Constr. Co., 28th and Poplar Sts., Oakland, $52,300.

Calif., Monterey—A. J. Mason, city clk., asphalt paving, etc., Ocean and Park Aves., to Clark & Henery Constr. Co., Chancery Bldg., San Francisco, $57,548; also concrete paving, etc., Del Monte Ave., to J. L. Conner, Monterey, $42,146. Noted Apr. 28.

Calif., Pacific Grove—Curbing, guttering and 1½ in. on 2½ in. asphaltic concrete paving, etc., portions Lighthouse Ave., to Clark & Henery Constr. Co., Chancery Bldg., San Francisco, $47,416.

Calif., Redwood City — Warrenite bitulithic surfacing portions Davis, Oliver, King Sts., to Hanrahan Co., Standard Oil Bldg., San Francisco, $38,555.

Calif., Riverside—Riverside Co. widening with concrete shoulders 17.3 mi. road between Whitewater River and Edom, to Matich Bros., Elsinore, $103,395. Noted May 20.

Calif., San Carlos — To Hanrahan Co., Standard Oil Bldg., San Francisco, improving various streets, 5,000 cu.yd. grading at $0.60 per cu.yd., 115,000 sq.ft. scarify $0.03 175,000 sq. ft. 2 in. asphaltic concrete surfacing $0.95 56,500 sq.ft. 6 in. concrete paving $0.23 and 60,000 sq.ft. 6 in. waterbound macadam base $0.05, etc. total $61,-100. Noted Apr. 15.

Calif., Santa Rosa — Grading, curbing, guttering and asphaltic concrete surfacing portions Glenn, Johnson, 10th Sts. etc., to Clark & Henery Constr. Co., Chancery Bldg., Santa Rosa, to exceed $25,000.

Calif., Santa Rosa—W. W. Felt, Jr., clk. Sonoma Co., concrete paving, etc. 1,600 cu.yd. Dutton Ave., to Hansen, Conners & Ede, Rosenberg Bldg., $21,365. Noted Apr. 29.

Washington—State Hy. Dept., Olympia, **(F. A. P. means Federal Aid Project)** grading 193,000 cu.yd. F.A.P. 161-A, Yakima Co., to Myers & Goulter, 607 Cherry St., Port Angeles $141,019, 86,000 cu.yd. F.A.P. 148-B, Kittitas Co., to Woldson & Degerstrom, 445 Peyton Bldg., Spokane $29,409, 73,000 cu.yd. S.R. 9, Jefferson Co., to A. Besoloff, 715 12th Ave., Seattle $36,-402, and 126,000 cu.yd. S.R. 9, Clahham Co., to James Allen Eng. Co., Chambers Bldg., Olympia $80,950. Grand total $287,780. Noted Apr. 22.

Wash., Colfax — Whitman Co., grading and surfacing 7 mi. Lamont-Ewan Highway, to F. R. Hewitt, Spokane, $50,832.

Wash., Port Townsend — Jefferson Co., constructing 2 mi. Chimacum Highway, Sect. 7, to J. Coyne, Port Townsend, $25,-500.

Wash., Seattle — Comrs. King Co., constructing 2.22 mi. Kirkland-Redmond Short Line Highway, to Wilburn & Stone, 1100 Fairview Ave. $29,000. Engrs. est. $35,-000. Noted Apr. 29.

Que., Chartierville — Town Council, E. Landry, secy.-treas., will gravel 1½ mi. road, by day labor. $40,000.

Ontario—Dept. Provincial Hys., Toronto, macadam paving 2.56 mi. Contr. 1283, and 7.3 mi. Contr. 1284 $100,000, to A. E. Jupp Constr. Co., Ltd., 170 Berkeley St., Toronto, $35,000 and $100,000 respectively; concrete paving 12.26 mi. Contr. 1292, to Dufferin Constr. Co., Bathurst St., Toronto, $300,000, and 4.58 mi. Contr. 1293, to W. King, Oakville, $125,000; bituminous penetration macadam paving 5.8 mi. Contr. 1294, and 3.68 mi. Contr. 1296 $65,000, to E. Irvine Co. Ltd., Alexandria, $80,000 and $65,000 respectively, 7.34 mi. Contr. 1295, to Law Constr. Co. Ltd., 50 Yonge St. Arcade, Toronto, $120,000, 5.43 mi. Contr. 1297, to Grant Bros. Constr. Co., Banque Nationale, Ottawa, $100,000, 4.3 mi. Contr. 1298, to H. T. Routly, 90 Jarvis St., Toronto, $65,-000, 0.5 mi. Contr. 1300, to G. Farmer & Sons, 45 Bertrand Ave., Ottawa, $8,000, and 2.31 mi. Contr. 1301, to F. R. Wilford & Co. Ltd., 17 William St. N., Lindsay, $30,000.

Ont., Bridgeburg — Concrete paving Gilmour St., to Godson Co., 203 Richmond St. W., Toronto, $70,000.

Ont., Hamilton—Suburban Hys. Comn., paving various streets, to Brennan Paving Co., Melrose Ave., $60,000.

Ont., Kingston — Kingston Suburban Roads Comn., 70,000 gal. road oil on various roads, to Municipal Road Spraying & Oiling Co., Confederation Life Bldg., Toronto, $0.29607 per gal.

Ont., Lucknow — Bruce Co. concrete paving 19,090 yd. various streets, to M. Mitchell, Lucknow. Engrs. est. $35,000.

Saskatchewan—Dept. Hys., Regina, roadwork between Crichton and Scotsguard, to A. G. and E. B. Young, Unity. Engrs. est. $26,000.

B. C., Point Grey — Paving various streets, to Armstrong & Morrison Paving Co., 543 Granville St., Vancouver, concrete $15,309; to Dawson, Wade & Co. Ltd., Bekins Bldg., Vancouver, concrete $5,870; and to Columbia Bitulithic Co., 402 Pender St. W., Vancouver, asphalt $6,027. Grand total $27,206. Engrs. est. $30,000.

B. C., West Vancouver — Bituminous macadam paving various streets, to Cotton Co., Ltd., False Creek Yards, Vancouver, $66,000. Noted Feb. 4.

Buildings—Commercial

Proposed Work

Mass., Dorchester (Boston P. O.) — MASONIC — Dorchester Masonic Building Assn., 77 Summer St., Boston, plans 3 or 4 story and basement, brick, here. $200,000. Engineer and architect not selected.

Mass., Falmouth—STORE and APARTMENT—A. A. Williams, Holliston, having sketches made by J. W. Beal Sons Co., 185 Devonshire St., Boston, 3 or 4 story and basement, brick and stone store and apartment. To exceed $150,000.

Mass., Newton (Ind. br. Boston) — THEATRE—G. J. Martin & associates, 349 Commonwealth Ave., plans 1 and 2 story and basement, brick and steel theatre. $150,000-$200,000. Engineer and architect not selected.

Mass., Peabody — RECREATION — St. Josephs Juniorate-Zaverian Order, having sketches made by M. Sullivan, 100 Boylston St., Boston, 2 story and basement, brick, Andover St. $150,000.

R. I., Westerly — STORE and OFFICE —Westerly Power & Light Co., Main St., having preliminary plans prepared by Jackson, Robertson & Adams, Turks Head Bldg., Providence, brick, High St. $150,000 or more.

Conn., Greenwich — HOSPITAL — St. Luke's Hospital soon lets contract 3 story and basement, 145 x 200 ft., brick, stone and steel hospital. $900,000. W. S. Gregory, 1170 Bway., New York City, archt.

Conn., Hartford — RECREATION — P. Mount, West Hartford, c/o C. H. Matthews, archt., 48 Campbell Ave., having plans prepared 4 story and basement, 95 x 125 ft., rein.-con. and stone, 20-30 Raymond Rd., here. $180,000.

Conn., Meriden — TEMPLE — Masonic Temple Assn., raising $150,000 or more funds, 1 story and basement, 70 x 100 ft., brick and marble, 104 East Main St. W. T. Arnold, 34 Main St., archt.

Conn., New Britain—THEATRE—Owner, c/o G. Le Witt, 299 Main St., plans large theatre, Washington St. To exceed $150,000.

Conn., New Haven—BUSINESS—Landay Bros., 801 Chapel St., having plans prepared by R. W. Foote, 185 Church St., 5 story, brick and steel, Chapel St. To exceed $150,000.

Conn., New Haven—THEATRE—Associated Theatres, c/o J. Weinstein, archt., Metropolitan Bldg., Chapel St., having plans prepared brick and steel, Norton St. $150,000.

N. Y., Albany — HOSPITAL — Albany City Hospital having revised plans prepared by Berlin & Swern, archts., 19 South La Salle St., Chicago, Ill., hospital, here. $700,-000. Noted Feb. 14, 1924.

N. Y., Kenmore — Y. M. C. A., R. R. Brockett, chn. Building Com., plans Y. M. C. A. building, Delaware Ave. $200,-000.

N. Y., New Rochelle—BATH HOUSE—Westchester Co. Park Comn., 72 Pondfield Rd., Bronxville, rejected bids May 10, bath house at Glen Island Park, here, Contr. 58. Noted May 13.

N. Y., New York—APARTMENT—Elbers Realty Corp., c/o E. Roth, engr. and archt., 119 West 40th St., having plans prepared 14 story, brick, steel and stone, plain foundation, Park Ave. and 90th St. $600,-000.

N. Y., New York—APARTMENT—One Hundred One West Kingsbridge Road Corp., c/o G. G. Miller, engr. and archt., 1482 Bway., having plans prepared 6 story, brick, steel and stone, plain foundation, University Ave. $800,000.

N. Y., New York — APARTMENT — Arthur Holding Corp., c/o Springsteen & Goldhammer, engrs. and archts., 32 Union Sq., having plans prepared 5 story, brick, steel and stone, plain foundation, Isham St. $250,000.

N. Y., New York — OFFICE — Zimdorf Realty Co., c/o G. and E. Blum, engrs. and archts., 505 5th Ave., having plans prepared 16 story, brick, steel and stone, plain foundation, 257 West 38th St. $500,000.

N. Y., New York — OFFICE — Pinaud Real Estate Corp., c/o Buchman & Kahn, engrs. and archts., 49 West 45th St., having plans prepared 7 story, brick, steel and stone, plain foundation, 214 East 21st St. $200,000.

N. Y., New York—RESTAURANT—F. G. Shattuck Co., 60 West 23rd St., having plans prepared by G. B. Post & Sons, engrs. and archts., 101 Park Ave., brick, steel and stone, plain foundation, 279 Bway. $300,000.

N. Y., New York—THEATRE and OFFICE—Rose Marie Holding Co., c/o H. J. Krapp, engr. and archt., 1650 Bway., having plans prepared 13 story, brick, steel and stone, plain foundation, 211 West 53rd St. $750,000.

N. Y., New York—WAREHOUSE—J. A. Frissco, c/o Moore & Dunford, engr. and archt., 110 East 42nd St., having plans prepared rein.-con., brick and steel, plain foundation Macoombs Rd. and 172nd St. $175,000.

N. J., Newark—APARTMENT—R. Van Dwyne, Inc., c/o J. S. Peterkin, engr. and archt., 50 East 42nd St., New York City, having plans prepared brick, steel and stone, plain foundation, Mount Prospect Ave. $700,000.

N. J., Newark — MAUSOLEUM — Fairmount Cemetery Assn., H. B. Lehlbach, pres., South Orange Ave., having plans prepared by W. H. Deacy, engr. and archt., 681 5th Ave., New York City, 3 story, 90 x 310 ft., concrete, granite and marble, Fairmount Cemetery. $1,000,000.

N. J., Newark—THEATRE and OFFICE —Beacon Theatre, c/o T. W. Lamb, engr. and archt., 644 8th Ave., New York City having plans prepared 12 story, brick, steel and stone, plain foundation, Board St., here. $1,500,000.

Pa., Ardmore — APARTMENT — W. M. Stanton, archt., 1524 Chestnut St., Phila., making plans 3 story and basement, 100 x 125 ft., stucco and timber, plain foundation, here. Owner's name withheld.

Pa., Connellsville — HOSPITAL — Connellsville Hospital Assn. having plans prepared by H. C. Frank, 2nd Natl. Bank Bldg., 3 and 4 story and basement, brick and steel hospital. $350,000.

Pa., Phila.—APARTMENT—J. P. Eckert, Commercial Bldg., having plans prepared by W. F. B. Koelle, Otis Bldg., 3 story and basement, 100 x 250 ft., rein.-con., brick and steel, plain foundation, 5427 Wayne Ave. $500,000.

Pa., Phila. — THEATRE — Juniper & Cherry St. Corp., c/o R. Beneckert, archt., Bellevue Court Bldg., and H. J. Kropp, archt., 1 West 47th St., New York City, N. Y., having revised plans prepared 1 story, mezzanine and basement 114 x 180 ft., rein.-con., brick and steel, plain foundation, Cherry and Juniper Sts. Noted Apr. 1.

Md., Baltimore — ADMINISTRATION — May 29, by H. I. Kavanagh, archt., 916 North Charles St., 4 story and basement, 77 x 161 ft., stone and steel, plain foundation, Wilkens Ave., for St. Marys Industrial School for Boys, Wilkens Ave. $200,000.

Md., Baltimore—ARCADE and STORE—New York & Baltimore Realty Co., c/o F. R. Callis, Jr., archt., Hearst Tower, plans 2 story and basement, 110 x 125 ft., brick and steel, plain foundation, Baltimore St. and Fremont Ave. $150,000.

N. C., Greensboro—OFFICE and STORE —H. S. Richardson, et al., plans 4 story and basement, first 2 floors 75 x 140 and other 2 floors 50 x 75 ft., brick, tile and concrete, North Elm St. $150,000. H. Barton, Greensboro, archt.

N. C., Greensboro — THEATRE — Natl. Amusement Co., T. G. Leitch, pres., having plans prepared by J. W. Workman, Greensboro, 6 story and basement, 100 x 160 ft., brick and terra cotta, Greene St. $500,000.

Fla., Bradenton—ARCADE—J. C. Walters, 720 East Capitol St., Springfield, Ill., having plans prepared by Dillard & Rowe, Bradenton, "Walcade Building," 100 x 100 ft., Court St. and Washington Ave. $175,000.

Fla., Clermont—HOTEL—A. McKenny, mayor, and associates, having plans prepared by G. L. Preacher Co., Wayne-Claughton Bldg., Atlanta, Ga., 9 story hotel, Montrose Ave. $150,000.

Fla., Sarasota — HOSPITAL — Election June 22, $175,000 bonds, hospital addition.

Miss., Biloxi — HOTEL — C. Matthes, archt., soon takes bids 6 story fireproof hotel, for Darries Hotel Co. $500,000. Noted May 6.

La., Baton Rouge — THEATRE — Columbia Theatre, Inc., A. Higginbotham,

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Buildings—Commercial (Continued)

mgr., plans 64 x 128 ft. theatre, 3rd and Convention Sts., $250,000.

O., Bellaire — GARAGE and SALES-ROOM—Bellaire Neff Bus. Co., N. O. La Roche, pres., having plans prepared by Austin Co., 16112 Euclid Ave., Cleveland, 2 story and basement, 120 x 200 ft., brick, steel and concrete garage and salesroom. $150,000.

O., Cleveland — AUTO SALES and SERVICE—Barnes Motor Co., (Dodge Bros. Agency), c/o W. P. Barnes, pres., 1938 East 21st St., having plans prepared by C. S. Schneider, 1836 Euclid Ave., 1 and 2 story, brick, steel and concrete, 2830 Prospect Ave. $150,000. Noted May 13.

O., Cleveland — COMMERCIAL and APARTMENT — A. Cramer, 11503 Saywell Ave., had plans prepared by M. Weis, Union Bldg., 2 story and basement, 60 x 111 ft., brick and steel, East 140th St. and Lake Shore Blvd. $150,000.

O., Columbus—OFFICE and STORE—W. K. Lanman, 20 South 3rd St., having sketches made 7 story and basement, 93 x 107 ft., brick, steel and concrete, South 3rd St. $400,000.

O., Portsmouth — TEMPLE — Masonic Temple Assn., C. M. Howland, ch. building com., having sketches made Masonic Temple. 400,000.

Ind., Anderson — APARTMENT — Syndicate having plans prepared by E. F. Miller, Anderson, 3 story, 144 x 226 ft., brick and steel, plain foundation, West 10th St. $260,000.

Ind., Anderson — APARTMENT and STORE—P. H. Cates, 28 West 9th St., plans 3 story, 120 x 144 ft., brick and concrete, 12th and Jackson Sts. $175,000.

Ind., Ft. Wayne—RECREATION—General Electric Co., 1703 Bway., takes bids June 11, brick and steel recreation building. $150,000. Private plans.

Mich., Detroit—APARTMENT—R. Finn, archt., 415 Brainard St., preparing plans 4 story and basement, 100 x 200 ft., rein.-con., brick and steel, plain foundation, East Jefferson Ave. $450,000. Owner's name withheld.

Mich., Detroit — APARTMENT — T. C. Hughes, archt., 2615 Joy Rd., preparing plans 4 story and basement, 120 x 145 ft., rein.-con., brick and steel, plain foundation, Roosevelt Park. $400,000. Owner's name withheld.

Mich., Detroit—GARAGE—Detroit Cab Co., 565 East Larned St., having plans prepared by Carey & Esselstyn, 602 Hoffman Bldg., 2 story, rein.-con. and brick, plain foundation, Trumbull Ave. and Plum St. $160,000.

Mich., Detroit—Y. M. C. A., A. G. Studer, secy., Adams Ave., having plans prepared by A. Kahn, 1000 Marquette Bldg., northwest branch, by Malcolmson & Higginbotham, 1217 Griswold St., west side branch, and by R. Derric, Inc., 120 Madison Ave., southeast branch, all 3 story and basement, rein.-con., brick and steel, plain foundations, incl. swimming pools. Each $500,000. Noted Mar. 25.

Ill., Chicago — APARTMENT — F. N. Brons & Co., 1021 North Dearborn St., having sketches made by E. J. Meles, 105 West Monroe St., 3 story and basement, 75 x 160 ft., brick and stone, North La Salle St. near Carl St. $150,000.

Ill., Chicago—APARTMENT HOTEL—Syndicate, c/o Leichenko & Esser, archts., 38 South Dearborn St., had plans prepared 4 story, 100 x 149 ft. apartment hotel, 79th St. and Lowe Ave. $350,000. Noted Apr. 15.

Wis., Eau Claire—HOSPITAL—Sacred Heart Hospital, North Dewey St., having plans prepared by Foeller, Schober & Stephenson, Nicollet Bldg., Green Bay, 3 story and basement, 44 x 125 ft., rein.-con. and brick addition, plain foundation. $150,000.

Wis., Fond du Lac — HOTEL — Hotel Wisconsin Realty Co., 86 Michigan St., Milwaukee, having revised plans prepared by M. Tullgren & Sons, 9 Waverly Pl., Milwaukee, 8 story and basement, 50 x 87 ft., brick, concrete and terra cotta addition to Retlaw Hotel, plain foundation. $350,000. Noted May 6.

Mo., Excelsior Springs — CLUB and HOTEL — L. L. Brown, et al., Hiawatha Hotel, having plans prepared 9 story and basement, 135 x 160 ft., rein.-con., plain foundation, Bway. $1,000,000.

Mo., Kansas City—STORE and OFFICE—Browning, King & Co., 11th and Grand Sts., indefinitely postponed project for 4 story and basement store and office building. Hoit, Price & Barnes, 800 Davidson Bldg., archts. Noted Aug. 13.

Mo., St. Louis — APARTMENT, STORE and OFFICE — Local Syndicate, c/o T. L. Coleman, Park Savings Trust Co., 7060 Clayton Ave., having preliminary plans prepared by A. B. Ridington, Fullerton Bldg., rein.-con., brick, stone and terra cotta, Kingshighway Blvd. $1,000,000.

Tex., Abilene—HOTEL—Abilene Hotel Co. having plans prepared by D. S. Castle Co., 701-4 Alexander Bldg., 9 or 10 story, basement and roof garden, 100 x 140 ft., rein.-con., brick and stone, plain foundation. $400,000.

Tex., Corpus Christi — HOTEL — J. N. Poulos & associates, 116 Tolle St., San Antonio, purchased site and plan 6 story, rein.-con., brick, stone or stucco, plain foundation, Champarral and Aubrey Sts. $250,000.

Tex., Corpus Christi — HOTEL and OFFICE — J. E. Garrett & associates, having preliminary plans prepared by W. C. Hedrick, 1st Natl. Bank Bldg., Ft. Worth, 14 story and basement, 100 x 150 ft., brick, stone and rein.-con. Lawrence and Chaparral St. $1,250,000.

Tex., Dallas—LODGE—Masonic Temple Corp., J. L. Burgess, Southland Life Bldg., plans lodge, Harwood St. $1,000,000. Engineer and architect selected soon.

Tex., Houston — HOTEL — Suburban Development Co., c/o F. S. Glover, pres., 604 Binz Bldg., having plans prepared by L. A. Glover, 604 Binz Bldg., 15 story and basement, 100 x 100 ft., brick, steel and terra cotta, Main St. and Rosalle Ave. $1,000,000.

Tex., Houston—OFFICE—J. M. West, West Bldg., plans 28 story, 128 x 154 ft., brick, stone and rein.-con., Main St. and Walker Ave. $3,000,000. Engineer and architect not selected.

Tex., Laredo—HOTEL—M. Little having preliminary plans prepared 7 to 10 story and basement, rein.-con. and brick addition to Hamilton Hotel, plain foundation. $150,000. C. M. Schoenfield, 324 Hunstock Ave., San Antonio, assisting with preliminary plans. Engineer and architect selected soon.

Tex., Mineral Wells — HOTEL — Baker Hotels of Texas, c/o T. B. Baker, c/o Gunter Hotel, San Antonio, having plans prepared by H. S. Green, c/o Alamo Natl. Bank Bldg., San Antonio, 7 story, basement and roof garden, 250 room, rein.-con., brick and stone, plain foundation, here. $700,000. Noted May 6.

Tex., Port Arthur—ARMORY—See "Contracts Awarded."

Tex., San Antonio—OFFICE—Natl. Bank Commerce, c/o J. K. Bereta, pres., soon takes bids 5 story, rein.-con. and brick top addition, Soledad St. $200,000. Private plans.

Colo., Denver — OFFICE — Woodmen of the World, 1447 Tremont St., plans office, Tremont St. between 13th and 14th Sts. $175,000. Engineer and architect not selected.

California — CLUB — Stanislaus Co. (Modesto) voted $50,000 bonds for Veterans Memorial Club buildings at Turlock; $50,000 bonds at Newman, $30,000 bonds at Patterson, $30,000 bonds at Oakdale, $15,000 bonds at Riverbank.

Calif., Albany—THEATRE—Blumenfeld Theatre Circuit, 298 Turk St., San Francisco, having plans prepared by Reid Bros., 105 Montgomery St., San Francisco, probably rein.-con., Main St., here. $200,000.

Calif., Burlingame—STORE and OFFICE—Allen & Co., 168 Sutter St., San Francisco, having plans prepared by E. B. Bertz, 168 Sutter St., San Francisco, 2 story, probably rein.-con., Bway. and Capuchino Ave. $150,000.

Calif., Daly City—THEATRE—C. H. Jensen, archt., Santa Fe Bldg., San Francisco, making preliminary plans rein.-con., Mission St. $150,000. Owner's name withheld.

Calif., Los Angeles—APARTMENT—B. Shapiro, 732 South Mariposa Ave., had plans prepared by E. B. Rust, Black Bldg., 4 story and basement, 56 x 125 ft., brick, Mariposa Ave.

Calif., Los Angeles—BANK and OFFICE—Peoples Holding Co., c/o A. R. Menaco, archt., Pershing Square Bldg., having preliminary plans prepared 12 story and basement, 40 x 160 ft., rein.-con., South Hill St.

Calif., Los Angeles — OFFICE and STORE—C. Laemle, Universal City, plans 5 story (ultimately 12 story), fireproof, Vine St. and Hollywood Blvd. $350,000 (ultimately $500,000).

Calif., Los Angeles—OFFICE—Financial Dist. Building Corp., having preliminary plans prepared by E. L. Mayberry, Transportation Bldg., 13 story and basement office building, 819 South Hill St.

Calif., Los Angeles — OFFICE — A. G. Bailey, archt., Hillstreet Bldg., preparing preliminary plans 12 story and basement, fireproof, 8th and Spring Sts. To exceed $250,000. Owner's name withheld.

Calif., Los Angeles — WAREHOUSE — City having plans prepared by Architectural Dept. of Bd. Educ., fireproof school warehouse addition. $270,000.

Calif., Modesto — COURTHOUSE — Stanislaus Co. plans election bonds to exceed $150,000, fireproof courthouse. Dana Pearce Co., Inc., California and Weber Sts., Stockton, archts. Noted Jan. 7.

Calif., Oakland—CLUB—Oak Knoll Land Corp., 1918 Bway., had plans prepared by W. J. McCormack, 1918 Bway., 2 story frame and stucco, Sequoyah Rd. $150,000.

Calif., Oakland — HOTEL — Drake Investment Co., c/o Miller & Pflueger, archts., 580 Market St., San Francisco, having plans prepared 21 story and basement, San Pablo Ave., 18th, 19th and Jefferson Sts. $2,250,000.

Calif., Pasadena — APARTMENTS — Maryland Hotel Co., Maryland Hotel, having preliminary plans prepared by E. B. Rust, Black Bldg., Los Angeles, 6 story, 80 x 70 ft., rein.-con., and 3 story, 50 x 120 ft., brick apartments.

Calif., Pasadena—WAREHOUSE—Pacific Terminal Warehouse Co., had plans prepared by W. P. Neil, Tower Bldg., 6 story, 200 x 200 ft. warehouse, Pasadena Ave. To exceed $150,000. General construction warehouses are also contemplated in Los Angeles, Wilmington and other Southern California Cities.

Calif., Sacramento — MAUSOLEUM — West Coast Mausoleum Assn., c/o C. L. Jay, archt., 845 East Washington St., Pasadena, having plans prepared rein.-con. and marble, Masonic Cemetery. $300,000.

Calif., San Bernardino—THEATRE—A. Pantages, Pantages Theatre Bldg., San Francisco, having preliminary plans prepared by B. M. Pretica, Pantages Theatre Bldg., San Francisco, fireproof theatre. To exceed $150,000.

Calif., San Diego — HOTEL — Syndicate having plans prepared by J. and D. B. Parkinson, 420 Title Insurance Bldg., Los Angeles, 13 story, 200 x 200 ft. hotel, A St. between 2nd and 3rd Sts. $1,250,000.

Calif., San Diego — OFFICE — Interests headed by R. M. Andrews, Union Natl. Bank Bldg., plans office building, 5th St. To exceed $750,000.

Calif., San Francisco—APARTMENT—Stock, Maas & Sauer, 251 Kearny St., had plans prepared by A. H. Larsen, 447 Sutter St., two 4 story and basement, concrete, Clay St. near Van Ness Ave. $80,000 each.

Calif., San Francisco—CLUB—Interests headed by J. B. Detwiler, having preliminary plans prepared by F. Todhunter, 2424 Larkin St., club, Sutro Heights. $750,000, incl. swimming pool, tennis courts, putting greens, etc. Total $1,000,000.

Calif., San Francisco — HOSPITAL — Green Opthalmic Institute, 853 Hyde St., having plans prepared fireproof, Bush and Octavia Sts. $150,000. Engineer and architect not selected.

Calif., San Francisco—HOTEL—Marian Realty Co., 110 Sutter St., having preliminary plans prepared by A. H. Larsen, 447 Sutter St., 16 story and basement, steel and rein.-con., 9th Market Sts. $500,000 or more.

Calif., Santa Monica — HOSPITAL — Pacific Beach Hospital, Inc., having preliminary plans prepared by W. H. Shaw, 1747 Maltman Ave., Los Angeles, 7 story and basement, steel, Pacific Ave. and 4th St. $1,000,000.

Calif., Taft—HOTEL—S. Orloff had preliminary plans prepared by Edelman & Barnett, H. W. Hellman Bldg., Los Angeles, 5 story, 75 x 125 ft. hotel, 5th and North Sts. $215,000.

Ont., Haileybury—HOSPITAL—Sisters of Providence, 1431 Fullum St., Montreal, Que., having plans prepared by J. Sawyer, 407 Guy St., Montreal, Que., 3 story and basement, 50 x 125 ft., rein.-con., brick and steel, Georgina Ave. $200,000.

Ont., Kitchener—HOSPITAL—Cities of Kitchener and Waterloo plan 3 story, rein.-con., brick and steel, plain foundation. $150,000. Engineer and architect not selected.

Ont., Ottawa—APARTMENT—Syndicate, Thompson & Scott, agts., 62 Bank St., plan 8 story, 51 x 91 ft., rein.-con. and brick, Somerset and Cartier Sts. $300,000. F. Peden, 4a McGill College, Montreal, Que., archt.

Ont., Ottawa—APARTMENT—F. Peden, archt., 65 McGill College, Montreal, Que., preparing plans and soon takes bids 8 story and basement, 90 x 116 ft., rein.-con., limestone and brick, plain foundation, Somerset St., here, for Avon Court Apartment, Ltd., Ottawa. $400,000.

Ont., Toronto — HOSPITAL — Toronto East General Hospital, 133 Danforth Ave., plans 5 story and basement, 100 room, rein.-con., brick and steel, plain foundation, Cox well and Sammon Aves. $500,000. Engineer not selected.

Ont., Toronto — HOSPITAL — Wellesley Hospital, Homewood Pl., having plans prepared by Stevens & Lee, 62 Charles St. E.,

Buildings—Commercial (Continued)

3 story and basement, rein.-con., brick and steel addition, plain foundation. $150,000.

Ont., Toronto—PRESS BUILDING—University of Toronto, Queens Park, having plans prepared by Darling & Pearson, 2 Leader Lane, 2 story and basement, rein.-con. brick and steel addition, plain foundation, Queens Park. $150,000.

Ont., Waterloo—OFFICE—Mutual Life Assurance Co., King St. S., having plans prepared by Darling & Pearson, 2 Leader Lane, Toronto, 4 or 5 story, rein.-con., brick and steel, plain foundation, King St. E. $250,000.

Alta., Edmonton—OFFICE and STORE—C. Woodward, Hastings and Abbott Sts., having plans prepared by Magoon & McDonald, Tegler Bldg., 3 story, 75 x 100 ft., concrete, brick and steel, 101st and 102nd Aves. $250,000.

Alta., Edmonton—STATION—Canadian Natl. Ry., W. A. Kingsland, genl. mgr., 230 St. James St., Montreal, Que., having plans prepared rein.-con., brick and stone station, here. $500,000. Private plans.

Man., Winnipeg — APARTMENT — M. Cantwell, c/o Oldfield, Kirby & Gardner, agts., 234 Portage St., having plans prepared by W. Finglund, 1313 Fort St., 6 story and basement, rein.-con., brick and stone, Carlton and St. Marys Sts. $275,000.

Bids Desired

Me., Portland—OFFICE—See "Unclassified."

Mass., Amherst — THEATRE, STORE, OFFICE, etc.—J. T. Sheehan, 57 College St., taking bids 1 and 2 story and basement, 95 x 175 ft., rein.-con., brick and steel, Main St., $150,000 or more. J. A. Tuck, Park Sq. Bldg., Boston, archt.

Mass., Arlington (br. Boston)—STORE—See "Contracts Awarded."

Mass., Boston—HOTEL—Hotel Minerva, H. C. Demeter, proprietor, 216 Huntington Ave., taking bids on revised plans 4 story and basement addition. $150,000. F. A. Norcross, 46 Cornhill, archt.

Mass., Boston — STORE and OFFICE — Owner, c/o C. A. Hoyle, agt., 35 Newbury St., taking bids 5 story and basement, brick and stone, Newbury St. $150,000. Coolidge & Carlson, 80 State St., archts.

Mass., Brookline (br. Boston)—STORE, OFFICE and BOWLING ALLEYS—See "Contracts Awarded."

Mass., Cambridge (Boston P. O.) — STORE and OFFICE—E. Sage, Brattle St., taking bids 2 story and basement, 60 x 145 ft., brick and stone, Church and Brattle Sts. $150,000. R. C. Grovestein, Brattle St., archt. Noted May 20.

Mass., Greenfield—HOSPITAL—Franklin Co. Pub. Hospital taking bids 3 story and basement, brick and stone, High St. $150,000. Kendall, Taylor & Co., 142 Berkley St., Boston, archts. Noted Apr. 22.

Mass., Jamaica Plain (Boston P. O.)—STORE and OFFICE — See "Contracts Awarded."

Mass., Roxbury (Boston P. O.)—ADMINISTRATION—Peter Bent Brigham Hospital, Van Dyke St., Roxbury, taking bids 6 story and basement, 34 x 37 ft., and 34 x 40 ft., rein.-con., brick and steel addition. $150,000. Codman & Despradelle, 27 Kilby St., archt.

Mass., Somerville (Boston P. O.) — APARTMENT — See "Contracts Awarded."

Conn., Stamford — APARTMENT — See "Contracts Awarded."

N. Y., Albany — BANK — June 10, by Home Savings Bank, North Pearl St., 19 story, brick, steel and stone, plain foundation, North Pearl St., Dennison & Hirons, 288 Lexington Ave., New York City, engrs. and archts. Noted Apr. 22.

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York — THEATRE — See "Contracts Awarded."

Pa., Pittsburgh—THEATRE—June 9, by Loew Theatrical Enterprises, 1540 Bway., New York City, N. Y., 3 story and basement, brick, steel and limestone, 6th St. and Penn Ave., here. $1,000,000. T. M. Lamb, 644 8th Ave., New York, N. Y., archt.

Md., Baltimore—LODGE—June 10, by C. N. and N. Friz, archts., Lexington Bldg., 5 story and basement, 81 x 150 ft., brick and steel, plain foundation, Charles and Preston Sts., for Knights of Pythias, Gay and Lexington Sts. $250,000. Noted May 14.

N. C., Charlotte—COURT HOUSE—June 17, by R. N. Hood, chn. Mecklenburg Co. Comrs., 4 story and basement, brick, stone and steel, East Ave. $400,000. L. H. Asbury, 1514 East 4th St., archt. Noted July 23.

Tenn., Memphis—CLUB, etc.—June 15, by Elks Club, Jefferson St., W. P. Lowens, chn. Finance Com., having plans prepared by G. Mahan, Jr., 434 North Evergreen St., 12 story, brick, stone, tile and terra cotta, incl. stores, swimming pool, etc., North Front and Jefferson Sts. $1,000,000.

O., Cleveland — APARTMENT — M. Margolin, 1489 East 106th St., taking bids two 3 story and basement, 40 x 142 ft., brick, 1886-90 East 93rd St. $225,000. M. Weis, Union Bldg., archt.

O., Cleveland — COMMERCIAL and THEATRE—Walnut Realty Co., c/o S. H. White, archt., 1032 Schofield Bldg., taking bids 2 story and basement, brick, steel and concrete, East 9th St. and Superior Ave. $400,000.

O., Cleveland — COMMERCIAL and THEATRE—A. Greenwald & S. H. Stecher, 535 Society for Savings Bldg., taking bids 2 story, 110 x 250 ft., brick, steel and concrete, Pearl Rd. and Broadview Rd. $275,000. N. Petti, Williamson Bldg., archt.

Ind., Sullivan—COURT HOUSE—July 7, by Bd. Comrs. Sullivan Co., fireproof court house, on site of present court house, square. $400,000. Noted May 20.

Mich., Detroit — OFFICE and SHOP — A. Kahn, 1000 Marquette Bldg., taking bids 4 story and basement, rein.-con. and brick, plain foundation, Trumbull Ave., for Westinghouse Electric & Mfg. Co., 4584 Maybury Grand. $400,000. Noted Nov. 12.

Ill., Chicago—APARTMENT—R. S. DeGoyler & Co., archts., 307 North Michigan Ave., taking bids concrete and masonry work 16 story and basement, 185 x 220 ft., rein.-con., brick and stone, Sheridan Rd. and Grace St., for E. W. Carlson, Pine Grove and Grace Sts. $2,500,000.

Ill., Chicago—APARTMENT—Leichenko & Esser, archts., 38 South Dearborn St., taking bids 3 story and basement, 98 x 123 ft., brick, plain foundation, 76th St. and South Shore Dr., for P. Berry, c/o architects. $175,000.

Ill., Chicago—OFFICE—B. L. Steif & Co., archts., 307 North Michigan Ave., taking bids 4 story, 150 x 250 ft. top addition, 4750 Sheridan Rd., for H. Emerman, 4750 Sheridan Rd. $500,000.

Wis., Milwaukee — DORMITORY — June 8, by A. J. Kenney, archt., 513 Van Buren St., 3 story and basement, 62 x 110 ft., brick and steel, plain foundation, Clybourn St., for Beldon Realty Co., c/o architect. $150,000. Noted Mar. 25.

Wis., Racine — THEATRE and BUSINESS—June 10, by J. M. Matson, archt., Baker Blk., 2 story and basement, 62 x 110 ft., brick, concrete and stone, plain foundation, 16th St., for S. Dorce, c/o Star Theatre, 16th St. $150,000.

Minn., St. Cloud—HOSPITAL—June 8, by Sisters of St. Benedict, St. Cloud, 6 story, basement and sub-basement, rein.-con., brick and stone hospital, service building, nurses home, etc. $400,000. Schmidt, Garden & Martin, 104 South Michigan Ave., Chicago, Ill., archts. Noted Apr. 29.

Mo., Joplin—THEATRE, etc.—See "Contracts Awarded."

Mo., St. Louis—EMPLOYEES—June 22, by Bd. Pub. Serv., 208 City Hall, 1 story, 36 x 70 ft. assembly hall, 2 story and basement, 36 x 56 ft. recreation building, and two 3 story, 39 x 131 ft. wings, all rein.-con., brick and stone, for City Sanitorium, Arsenal St. $420,000. L. R. Bowen & A. Osburg, archts., and L. R. Bowen & H. Updike, engrs., all of 301 City Hall. Noted May 13.

Mo., St. Louis—STORE and OFFICE—See "Contracts Awarded."

Tex., San Antonio—HOTEL—T. B. Baker Hotel Co., c/o Gunter Hotel, receiving competitive bids altering and constructing additional stores to present hotel, Houston and St. Mary's Sts. $300,000. H. S. Green, Alamo Natl. Bank Bldg., archt. Noted Nov. 20, 1924.

Calif., Huntington Park — STORE and HOTEL—Farrell & Miller, archts., Western Mutual Life Bldg., Los Angeles, taking bids 3 story, 114 x 140 ft., brick, South Pacific Blvd., here, for J. F. McSwain.

Sask., Regina—HOTEL—June 8, by Ross & Macdonald, archts., 1 Belmont St., Montreal, Que., 9 story and basement, 118 x 222 ft., brick, stone and steel, here, for Canadian Pacific Ry., 4 Hospital St., Montreal, Que. $2,500,000.

Contracts Awarded

Vt., Salisbury — HOME — Trustees of Home for Aged Women, A. H. Sturtevent, chn., 2 story and basement, brick, to A. N. Brown, Middlebury. Archts. est. $150,000.

Mass., Arlington (br. Boston)—STORE—R. Baker, 22 Morton St., Dorchester, will build 1 and 2 story and basement, 90 x 150 ft., brick and stone, 1189-95 Massachusetts Ave. $155,000. Work will be done by separate contracts. Private plans.

Mass., Boston—APARTMENT—Trustees "Hotel Tudor," c/o Kilham, Hopkins & Greeley, archts., 9 Park St., Hotel Tudor, 4 story and basement, rein.-con., brick and steel, 35 Beacon St., to I. H. Bogart & Son, 69 Newbury St. Archts. est. to exceed $150,000.

Mass., Boston — OFFICE — DeBlois & Maddison, Barristers Hall, altering and constructing 4 story and basement, brick, 3 Park Sq., to L. D. Willcutt & Sons Co., 146 Summer St. Archts. est. $150,000.

Mass., Boston — OFFICE, etc. — Fort Point Building Trust, c/o M. C. Burton, 1 Federal St., 13 story, 160 x 235 ft., brick and steel, Congress St., to James Stewart & Co., 30 Church St., New York City, and 1 Federal St., Boston. Archts. est. $2,000,000. Noted Apr. 22.

Mass., Brookline (br. Boston)—STORE, OFFICE and BOWLING ALLEYS—R. Simmons, c/o S. S. Levy, archt., will build 2 story and basement, brick and stone, 308-312 Harvard St. $152,000. Work will be done by separate contracts.

Mass., Brookline (br. Boston) — STORE and OFFICE — Waldorf System, Inc., Boston, P. E. Woodward, pres., altering and constructing 3 story and basement, brick, Beacon St., to J. Bowen Co., 184 Dudley St., Roxbury. Archts. est. $150,000.

Mass., Cambridge (Boston P. O.) — STORE and APARTMENT — Hunters Market, J. Hunter, proprietor, 3 story and basement, brick and stone, Huron and Concord Aves., to B. Steinberg, 6 Beacon St., Boston. Archts. est. $150,000.

Mass., Jamaica Plain (Boston P. O.)—STORE and OFFICE—H. Sacks, 2 Browning Ave., Dorchester, will build 4 story and basement, 60 x 125 ft., rein.-con., brick and stone, plain foundation, here. $185,000. Work will be done by day labor. A. Rosenstein, 220 Devonshire St., Boston, archt.

Mass., Lynn — BANK — Commonwealth Savings Bank, 345 Union St., 1 story and basement, brick and stone, plain foundation, Washington St. and Central Ave., to W. T. Dineen, 23 Central Ave. Archts. est. $150,000. Noted May 6.

Mass., Malden (br. Boston)—STORE and OFFICE—Malden Investment Co., c/o C. T. Springall, archt., 50 Concord St., 2 story and basement, brick and stone, Exchange St., to W. H. Bailey Co., 88 Broad St., Boston. Archts. est. $150,000.

Mass., Somerville (Boston P. O.) — APARTMENT — Z. E. Cliff, 29 Powder House Blvd., will build 4 story and basement, brick and stone, plain foundation, Day St. $160,000. Work will be done by separate contracts. W. Littlefield, 9 Hamilton Pl., Boston, archt.

Mass., Springfield — THEATRE and OFFICE — A. S. Friend, 285 Madison Ave., New York City, theatre and office, Main St., here, to J. D. Harrison, 285 Madison Ave., New York City.

R. I., Providence — TEMPLE — Temple Emanuel Society, P. C. Joslin, pres., 3 story and basement, brick, steel and stone, Sessions St. and Morris Ave., to E. Turgeon, 36 Exchange Pl. Archts. est. $250,000. Noted Apr. 22.

Conn., New Haven—APARTMENT and OFFICE—M. Koury, 1430 Dixwell Ave., will build 8 story, 125 x 150 ft., brick and steel, Grove and Church Sts. $500,000. Work will be done by day labor. C. H. Abramowitz, 42 Church St., archt.

Conn., Stamford—APARTMENT—Harris Constr. Co., Inc., 137 Main St., will build 4 story, 60 x 106 ft., brick and steel, Atlantic St. $175,000. Work will be done by separate contracts. Private plans.

N. Y., Brooklyn—HOSPITAL—St. Johns Hospital, Atlantic Ave., 5 story, brick, steel and stone, plain foundation, Atlantic Ave., to W. Kennedy Constr. Co., 215 Montague St. Archts. est. $1,500,000. Noted Apr. 1.

N. Y., New York—APARTMENT—Stomkane Realty Co., c/o Goldner & Goldner, engrs. and archts., 141 West 42nd St., will build 6 story, brick, steel and stone, plain foundation, Creston Ave., by day labor. $400,000.

N. Y., New York—APARTMENT—Kingsbridge Terrace Corp., c/o G. G. Mille., engr. and archt., 1482 Bway., will build 6 story, brick, steel and stone, plain foundation, Kingsbridge Rd., by day labor. $175,000.

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Buildings—Industrial (Continued)

N. Y., New York — APARTMENT — Sigmund Constr. Co., c/o G. G. Miller, engr. and archt., 1482 Bway., will build brick, steel and stone, plain foundation, Valentine Ave. $150,000. Work will be done by separate contracts.

N. Y., New York—CLINIC—New York Osteopathic Clinic, 35 East 32nd St., brick, steel and stone, plain foundation, East 20th St., to J. I. Downey, 410 West 34th St. Engrs. est. $200,000. Noted Apr. 8.

N. Y., New York — THEATRE — M. Greenberg, c/o O. Goldschlag, engr. and archt., 1482 Bway., will build brick, steel and stone, plain foundation, Westchester Ave. $200,000. Work will be done by separate contracts.

Pa., Phila. — AUCTION SALES — L. P. Kimball, engr. Buildings of Baltimore & Ohio R.R. Co., Baltimore, Md. (1st unit), 2 story, 114 x 1,026 ft., rein.-con. and brick, plain foundation, Delaware Ave. and Jackson St., here, to U. G. I. Contg. Co., Broad and Arch Sts., for Baltimore & Ohio R.R. Co., Baltimore, Md., and Reading Co., Reading Terminal Bldg. $500,000. This corrects report in May 20 issue.

Pa., Phila.—CITY HALL—G. H. Biles, dir. Dept. Pub. Wks., City Hall, general contract 15 story, basement and sub-basement, 100 x 246 ft., rein.-con., brick and granite, caisson foundation, Juniper and Filbert Sts., to G. A. Fuller Co., Morris Bldg., $1,959,356; heating and mechanical equipment, to N. Connelly, 1404 North 18th St., $179,880, etc. Noted May 27.

Pa., Phila. — STORE — Ritter & Shay, archts., Packard Bldg., 10 story and basement, 23 x 200 ft., rein.-con., brick and steel, plain foundation, 929 Market St., to Ketcham & McQuade, 1029 Brown St., for H. C. Kahn & Son, 11th and Filbert Sts. Noted May 6.

Pa., Pittsburgh — Y. M. C. A. (boys branch) North Side, general contract 2 and 5 story and basement, 60 x 100 ft., brick and steel, North Ave. and Monterey St., to Pittsburgh Eng. & Constr. Co., Homewood Ave. Archts. est. $250,000. Noted May 13.

Md., Baltimore—THEATRE—J. J. Zink, archt. 2726 Overland Ave., Baltimore, 1 story and balcony, 61 x 280 ft., rein.-con. and brick, plain foundation, to Betson & Hahn, Frederick, for Stanley-Crandall Co., 934 F St., Wash., D. C. $200,000. Noted Apr. 29.

D. C., Wash. — OFFICE — O. H. Miller, archt., McLachlen, Bank Bldg., 8 story, 50 x 100 ft., rein.-con., brick and steel, plain foundation, 10th and K Sts. N. W., to J. L. Parsons, Jr., Lenox Bldg., for United Brotherhood Carpenters & Joiners, of Amer. Local 132. Noted Apr. 1.

Miss., Hattiesburg — HOSPITAL — Bd. Trustees Methodist Hospital Assn., general contract 3 story, rein.-con., brick and stone hospital, to Wessell Constr. Co., Memphis, Tenn., $158,800. Archts. est. $175,000. Noted Dec. 31.

Miss., Natchez — HOTEL — Hotel Natchez Co., general contract 4 story and basement, concrete and brick, addition Pearl and Franklin Sts., to Estes-Williams Co., Cotton Exch. Bldg., Memphis, Tenn., $96,000. Archts. est. $150,000.

O., Cincinnati — HOSPITAL — Deaconess Hospital, Clifton Ave., 4 story and basement, 80 x 100 ft., brick and rein.-con. plain foundation, Clifton Ave., to F. K. Vaughn Co., 919 Edwards Bldg., $500,000.

O., Cincinnati—OFFICE—S. Hannaford & Sons, 1024 Dixie Terminal Bldg., 3 story and basement, 80 x 125 ft., brick and rein.-con., plain foundation, Sycamore St., to W. Harig Co., 31 East 4th St., $150,000.

O., East Liverpool—HOTEL—R. L. Edmondson, 4 story and basement, 69 x 75 ft., brick addition, East 4th St., to Potters Lumber Co., East Liverpool, $150,000.

O., Lorain—COMMERCIAL and OFFICE —Ohio Pub. Serv. Co., c/o T. O. Kennedy, pres., 1800 B. F. Keith Bldg., Cleveland, 2 story and basement, 50 x 125 ft., brick, steel and concrete, Bway., to L. A. Burgett Co., 6th St. and Bway. Archts. est. $150,000.

O., Shaker Heights (Cleveland P. O.)—EXCHANGE—Ohio Bell Telephone Co., C. Cooper, vice-pres., 4300 Euclid Ave., Cleveland, 2 story and basement, brick and rein.-con., East 158th St. and Kinsman Rd., to A. A. Lane Constr. Co., 1869 East 55th St. Archts. est. $150,000. Noted Mar. 18.

O., Wickliffe — CLUB HOUSE — Cedarhurst Country Club Co., H. H. Lind, genl. mgr., 1068 Hanna Bldg., Cleveland, 2 story, brick and stucco, Ridge Rd., to Buschman Constr. Co., 662 East 185th St., Cleveland. Archts. est. $150,000. Noted Jan. 28.

O., Youngstown — GARAGE — E. W. Leedy, Stambaugh Bldg., 6 story and basement, 107 x 161 ft., brick and rein.-con. garage, to A. A. Lane Constr. Co., 1869 East 55th St., Cleveland. Archts. est. $300,000. Noted May 13.

Ind., Indianapolis — APARTMENT — Charnwood Realty Co., c/o Washington Bank & Trust Co., 255 West Washington St., general contract 3 story and basement, 200 x 300 ft. apartment, to A. Baynhom & J. H. Morgan, 3419-35 North Pennsylvania St. Archts. est. $180,000.

Mich., Birmingham — EXCHANGE — Michigan Bell Telephone Co., Cass Ave., Detroit, 2 story and part basement, rein.-con. and brick, plain foundation, to N. A. Starr, 112 Howarth Bldg., Royal Oak. Archts. est. $150,000.

Mich., Detroit — WAREHOUSE — L. B. King Co., 1274 Library Ave., 3 story and basement, rein.-con., brick and steel, plain foundation, Mullet St., to H. G. Christman Co., 315 Stevens Bldg. Archts. est. $150,000.

Ill., Chicago — APARTMENT — L. K. Grieser, archt., 28 East Jackson St., masonry and carpentry contract, 3 story and basement, 100 x 278 ft., brick and terra cotta, 4232-48 Clarendon Ave., to A. W. Anderson, 1436 Elmdale Ave., for S. Dlott, 179 West Washington St. Archts. est. $500,000.

Ill., Chicago—APARTMENT HOTEL—M. Factor, c/o D. S. Klafter, archt., 64 West Randolph St., general contract 4 story, 50 x 116 ft., brick, stone and terra cotta, 638-640 Briar Pl., to L. Susman, 30 North La Salle St. Archts. est. $150,000.

Ill., Chicago—STORE and APARTMENT —A. Nathan, c/o Leichenko & Esser, archts., 38 South Dearborn St., masonry contract 3 story, 54 x 117 ft., brick, Bernard St. and Irving Park Blvd., to J. Wasilewski, 2710 North Kimball Ave. Archts. est. $150,000.

Wis., Madison — STORE — Hills Stores, Inc., 202 State St., general contract 2 story and basement, 68 x 122 ft., rein.-con., brick and steel, plain foundation, State St., to J. H. Kelly, 24 East Mifflin St., Madison. Noted May 20.

Wis., Milwaukee—OFFICE—Milwaukee Electric Ry. & Light Co., 2nd and Sycamore Sts., remodeling 2 story office building, to H. Danischefsky, 1488 Humboldt Ave. Archts. est. $150,000.

Wis., Milwaukee—STORE and OFFICE —P. T. Maischoss, 477 Menlo Blvd., 6 story and basement, 120 x 120 ft., brick, concrete and terra cotta, plain foundation, Wisconsin St. and Bway., to W. W. Oeflein, 86 Michigan St. Archts. est. $500,000.

Wis., Milwaukee — THEATRE — Badger Building Serv., 445 Milwaukee St., 1 and 2 story and basement, 100 x 120 ft., brick, concrete and terra cotta, plain foundation, Center St., to T. Stark & Co., 130 Muskego Ave. Archts. est. $250,000.

Wis., Milwaukee—THEATRE—Colonial Amusement Co., 984 Sherman Blvd., 1 and 2 story, 52 x 225 ft., brick, concrete and terra cotta addition, plain foundation, Vliet St., to T. Stark & Co., 130 Muskego Ave. Archts. est. $300,000.

Wis., Rhinelander—BANK and OFFICE —Merchants State Bank, Raymond, cashier, 3 story and basement, 62 x 100 ft., stone and concrete, plain foundation, here, to Jacobson Bros., 410 Columbia Bldg., Duluth. Archts. est. $150,000. Noted Jan. 28.

Minn., Cambridge — ADMINISTRATION —State Dept. Administration & Finance, Capitol Bldg., St. Paul, general contract 2 story and basement, rein.-con., brick and stone, at Minnesota Colony for Epileptics, to Albee Bros., 1012 Plymouth Bldg., Minneapolis, $161,585. Noted May 20.

Minn., Minneapolis — HOTEL — Sheridan Holding Co., Marquette Ave. at 12th St., general contract 10 story and basement, 40 x 168 ft., rein.-con., brick and stone addition, Marquette Ave. between 11th and 12th Sts., to M. Schumacher, 39 Dell Pl. Total about $450,000.

Minn., Minneapolis — OFFICE — Baker Building, Inc., M. T. Baker, pres., Baker Bldg., general contract 2 story and basement, 73 x 121 ft., rein.-con. and brick addition, 125-29 7th St. South, to J. Leck Co., 211 South 11th St. Archts. total est. $150,000.

Neb., Omaha — OFFICE — Metropolitan Utilities Dist., T. A. Leisen, mgr., City Hall, 4 story and basement, 66 x 136 ft., rein.-con. and brick, plain foundation, 18th and Harney Sts., to Peter Kiewits Sons, Omaha Natl. Bank Bldg., $223,450. Noted Mar. 4.

Mo., Farmington — COURT HOUSE — Clerk St. Francois Co., general contract 3 story and basement, 96 x 96 ft., rein.-con., brick and stone court house, to McCarthy Constr. Co., 4908 Delmar Blvd., St. Louis, $209,584. Noted Apr. 29.

Mo., Joplin — THEATRE, etc. — [illegible] Studios, Inc., 30 West Lake St., Chicago, Ill., will build 1 and 2 story, 120 x 150 ft., rein.-con., brick, stone and terra cotta theatre, 5th and Virginia Sts., by day labor, $300,000. F. Jacobs, 4442 Monticello Ave., Chicago, Ill., archt.

Mo., St. Louis — APARTMENT — [illegible] Eyrie Invst. Co., 721 Chestnut St., 3 story and basement, 80 x 138 ft., brick, concrete and stone, 5364-70 Delmar Blvd., to W. F. Sheehan, 721 Chestnut St.

Mo., St. Louis—APARTMENTS—Mordyke Constr. Co., 721 Chestnut St., 100 x 131 ft., 6168 Waterman Ave., and 50 x 113 ft., 6154 Waterman Ave., both 3 story and basement, brick, concrete and terra cotta, to W. F. Sheehan, 721 Chestnut St.

Mo., St. Louis—GARAGE—Seven-Well Garage Co., c/o W. King, 500 Walnut St., pres., 6 story, 160 x 215 ft., rein.-con. and brick, 7th and Walnut Sts., to Morrison Constr. Co. & Mid-Continent Constr. Co., 311 International Life Bldg. Archts. est. $275,000.

Mo., St. Louis—STORE and OFFICE—R. Hill, Lister Bldg., will build 2 story and basement, 72 x 156 ft., and 44 x 178 ft., rein.-con., brick and stone, Maryland and Euclid Aves., $175,000. Work will be done by sub-contracts under supervision of P. J. Bradshaw, International Life Bldg., archt.

Tex., Amarillo—HOTEL—Amarillo Hotel, 11 story and basement, 48 x 76 ft., rein.-con., stone and brick to F. Bone Constr. Co., Amarillo. Archts. est. $300,000. Noted Mar. 4.

Tex., Dallas—APARTMENT—L. Power, Plaza Vista, Inc., Bryan High School, general contract 10 story and basement, 60 x 126 ft., rein.-con. and brick, plain foundation, Worth St., to Worden-Henry Constr. Co., Kirby Bldg., $265,000.

Tex., Dallas—APARTMENT—Oak Cliff Apartment Corp., J. B. Rucker, 1813 Main St., 10 story and basement, rein.-con. and brick, plain foundation, Colorado St., to Bellows-Maclay Co., Kirby Bldg. Archts. est. $650,000.

Tex., Dallas—BANK and OFFICE—Dallas Natl. Bank, J. D. Gillespie, Dallas Natl. Bank, general contract 15 story and basement, 53 x 100 ft., rein.-con. and steel, plain foundation, Main St., to Henger & Chambers, Slaughter Bldg. Cost plus percentage basis. Archts. est. $500,000.

Tex., Greenville—BANK and OFFICE—Greenville Natl. Exch. Bank, c/o J. B. Clayton, pres., 7 story and part basement, 41 x 108 ft., brick, steel and rein.-con., Lee and Stonewall Sts., to Christy-Dolph Constr. Co., 801 Central Bank Bldg., Dallas, $169,900.

Tex., Kerrville—HOTEL—P. G. Sebler & Co., archts., 331 Bedell Bldg., San Antonio, 6 story and basement, brick, stone and rein.-con. hotel, here, to Walch & Burney, 628 North Florance St., San Antonio, for Singleton & Wallace, Houston. $260,000. Noted Apr. 22.

Tex., Port Arthur — ARMORY — Port Arthur Memorial Armory Assn., c/o R. L. Drake, chn. Building Com., (1st unit) 2 story, 50 x 80 ft. armory, to H. W. McCord, Woolworth Bldg., $52,724; plans 2nd unit later. Total $250,000.

Tex., Wichita Falls—MEDICAL ARTS—Western Medical Arts Building Corp., c/o A. McClory, Bob Waggoner Bldg., 11 story and basement, 100 x 150 ft., brick, stone and terra cotta, 8th and Lamar Sts., to J. S. Harrison, Jr., 1114 Santa Fe Bldg., Dallas, $550,000. Noted Nov. 5.

Wash., Seattle—OFFICE and STORE—V. W. Voorhees, archt., Eitel Bldg., 10 story and basement, rein.-con. and steel, 6th and Stewart Sts., to West Coast Constr. Co., Seaboard Bldg., for Vance Lumber Co., Eitel Bldg. $166,652. Noted May 20.

Calif., Inglewood—HOTEL and STORE—Income Community Properties, 4 story and basement, 91 x 185 ft., brick and concrete, Locust and Queen Sts., to T. B. Morrison, Pacific Mutual Bldg., Los Angeles, approximately $315,000. Noted May 13.

Calif., Los Angeles — APARTMENT — Western Holding Co., 4 story and basement, 60 x 110 ft., concrete, West 8th St., to J. P. Stein, 914 Westchester Pl., $150,000.

Calif., Los Angeles—APARTMENTS—Signal Realty Co., 5 story and basement, Alexandria Ave. near 4th St., and 6 story and basement, 3rd St. and Alexandria Ave., both brick and steel, to Bard & Co., Pacific Natl. Bank Bldg., approximately $150,000 and $200,000 respectively.

Calif., Los Angeles—APARTMENT—E. Wilson, 3 story and basement, 100 x 100 ft., frame and stucco, Marathon Ave., to S. C. Clark, 6001 Santa Monica Blvd., approximately $150,000.

Buildings—Commercial (Continued)

Calif., Los Angeles — HOTEL — E. K. Ginsberg, 747 South New Hampshire St., 4 story and basement, 96 x 150 ft., brick, West 8th St., to Callahan & Sons, Edwards-Wildey Bldg., $185,000. Noted Dec. 3.

Calif., Los Angeles — HOTEL — N. H. Chase, 5 story and basement, brick, South Bonnie Brae Sts., to Bard Co., Pacific Natl. Bank Bldg., approximately $165,500.

Calif., Los Angeles—OFFICE and LOFT —Figueroa Street Co., 3 story, 180 x 220 ft., rein.-con., Figueroa St., to Edwards, Wildey & Dixon, Edwards-Wildey Bldg., approximately $275,000.

Calif., Los Angeles — SALES and GARAGE—T. B. Keim, Jr., archt., Haas Bldg., 4 story and basement, rein.-con., 12th and Figueroa Sts., to C. A. Schweissinger, 627 Loomis St., for A. P. Mitchel, et al, 505 South Irving Blvd., approximately $175,000. Noted Apr. 29.

Calif., Los Angeles — STORE, OFFICE and THEATRE—Interests, c/o H. E. Jones, rein.-con. and steel, Vine St., to Simpson Constr. Co., Hollywood Guaranty Bldg., approximately $300,000.

Calif., Pasadena—OFFICE—Coast Holding Corp., c/o R. S. Loring, archt., 530 South Euclid Ave., 6 story and basement, 75 x 150 ft., rein.-con., Green St., to Murray Co., Security Bldg., Los Angeles, $375,000.

Calif., San Francisco — APARTMENT — M. A. Hunt, 916 Van Ness Ave., two 6 story and basement, rein.-con., one at Sutter and Franklin Sts., and other Fern and Franklin Sts., to Helbing Co., 916 Van Ness Ave., $150,000 each.

Calif., San Francisco — APARTMENT — M. A. Hunt, 916 Van Ness Ave., 6 story and basement, rein.-con., Green and Webster Sts., to Helbing Co., 916 Van Ness Ave., $150,000.

Calif., San Francisco—APARTMENT—Nineteen Fifty-Eight Vallejo St., Inc., 2240 Green St., 11 story and basement, rein.-con., Vallejo St. near Laguna St., to Denke & Bowes, 1317 Hyde St., $200,000 or more. Noted May 20.

Calif., San Francisco—AUTO SALES—E. C. Anthony, 1335 Van Ness Ave., 4 story, steel and rein.-con., Ellis St. and Van Ness Ave., to Cahill Bros., 55 New Montgomery St., approximately $400,000. Noted May 27.

Calif., San Francisco—OFFICE—Cahill Bros., (owners and contractors), 55 New Montgomery St., will build probably 15 story and basement, 44 x 87 ft., Pine and Sansome Sts. To exceed $150,000.

Buildings—Industrial

Proposed Work

R. I., Providence—REPAIR SHOP and GARAGE—New York, New Haven & Hartford R.R. Co., South Sta., Boston, plans 1 story, 86,000 sq.ft. floor space, brick, Kinsley Ave., here. $40,000. Private plans.

Conn., Hartford — FACTORY — Royal Typewriter Co., 150 New Park Ave., had preliminary plans prepared factory addition. $40,000 or more.

N. Y., Albion—HEATING PLANT—Bd. Educ. plans heating plant for high school, here. $40,000.

N. Y., Buffalo—FURNITURE PLANT—De Luxe Living Room Furniture Co., 4743 Seneca St., plans rebuilding factory, Seneca St., recently destroyed by fire. $90,000.

N. Y., New York—POWER HOUSE—New York Edison Co., Irving Pl., plans 3 story, rein.-con., brick and steel, plain foundation, 118 West 53rd St. $85,000. Private plans.

N. Y., Salamanca—SILK MILL—H. F. Midgley, c/o Moench Tannery, plans silk mill. $150,000.

N. J., Camden—PLANT—Amer. Brown-Boveri Electric Co., Bway. and Fairview Aves., soon takes bids 1 story, 60 x 180 ft. brick, steel and stone, addition, plain foundation. Private plans.

N. J., Newark—PLANT—R. J. Wing Mfg. Co., Victoria St., having plans prepared by Fletcher-Thompson, engrs. and archts., 350 Madison Ave., New York City, rein.-con. brick and steel addition, plain foundation, Frelinghuysen Ave. $45,000.

Pa., Sharon — PLANT — Westinghouse Electric & Mfg. Co., East Pittsburgh, having plans prepared by B. H. Prack, Martin Bldg., Pittsburgh, 5 story and basement, 72 x 220 ft., brick and steel addition, here. $275,000.

Pa., Universal—CEMENT PLANT—Universal Portland Cement Co., 210 La Salle St., Chicago, Ill., having plans prepared 1 story, 90 x 460 ft., brick, concrete and steel addition, here. $1,000,000. Private plans.

Pa., Vanport—BRICK PLANT—Glonninger Brick Co., Arrott Bldg., Pittsburgh, having plans prepared rebuilding 1 story, brick and steel plant, recently destroyed by fire. $40,000. Private plans.

Pa., Williamsport—MARKET HOUSE—Williamsport Market Co., E. Horn, pres. Brozman & Gerson Co., 1st Natl. Bank Bldg., plans 2 story and part basement, 71 x 208 ft., concrete and steel, Market St. $150,000. Engineer and architect not selected.

Pa., Williamsport—CAR BARN—Williamsport Passenger Rys. Co., L. W. Heath, genl. mgr., takes bids about July 2, 1 story, 100 x 400 ft., rein.-con. and steel, West 3rd St. $150,000.

N. C., Burlington—FURNITURE FACTORY—Southern Furniture Co. plans high-grade factory. $250,000. E. Holt & M. B. Smith, Burlington, interested.

La., Louisiana—SHEET METAL PLANT —Amer. Sheet Metal Wks., 3500 South Carrolton St., having plans prepared by Favrot & Livaudais, Hibernia Bank Bldg., and soon takes bids 1 story, concrete and steel, rein.-con. foundation, Alexandria and Conti Sts.

O., Canton—FACTORY—Timken Roller Bearing Co., Harrison Ave. S. W., plans extending factory. $1,000,000.

O., Canton—FACTORY—Wheel Products Corp. plans new factory, here. To exceed $50,000.

O., Columbus — WORKSHOP — Water Works Dept., C. B. Hoover, supt., City Hall, having sketches made 3 story and basement, 100 x 135 ft., brick and concrete, West Spring St. $100,000. R. H. Simpson, city engr.

Ind., Evansville—ROUND HOUSE—Chicago & Eastern Illinois R.R., L. C. Hartley, ch. engr., 166th St. and Union Ave., Chicago, Ill., plans machine shops and round house for terminal, near here. $500,000.

Mich., Detroit—PLANT—Wolverine Tube Co., 1411 Central Ave., having plans prepared by Carey & Esselstyn, 602 Hoffman Bldg., 2 story, 120 x 120 ft., rein.-con., brick and steel addition, plain foundation, Central Ave.

Mich., Niles—ICE PLANT—City Ice & Fuel Co., c/o E. C. Balzhizer, vice pres., 6611 Euclid Ave., Cleveland, O., having preliminary plans prepared by W. A. Schmidt, 3320 Jefferson Ave., Cincinnati, O., 1 story ice plant, concrete, brick and steel, here. $200,000. C. C. Coneby, 3320 Jefferson Ave., Cincinnati, O., engr.

Ill., Chicago — METAL PRODUCTS FACTORY — A. S. Alschuler, archt., 38 East Jackson Blvd., soon lets contract 1 story, 62 x 350 ft., brick and terra cotta addition, 5700 West Roosevelt Rd., for Pheoll Mfg. Co., 5700 West Roosevelt Rd. $100,000.

Wis., Cedarburg — REFRIGERATION PLANT — Federal Silver Fox Farms, J. Nieman, pres., Thiensville, plans 2 story, brick and concrete, plain foundation, here. $50,000. Engineer and architect not selected.

Wis., Fond du Lac—PLANT—Wisconsin Power & Light Co., 16 North Carroll St., Madison, F. Whitly, dist. mgr., plans 3 story, 30 x 60 ft., rein.-con., brick and steel coke screening and storage plant, here. $40,000. Engineer and architect not selected.

Ia., Dubuque—GARAGE and REPAIR SHOP—Julien Dubuque Garage Co., c/o S. F. Wersei, 12 South Grandview St., plans 3 story, rein.-con., brick and steel, plain foundation, 3rd and Locust Sts. $200,000.

Kan., Newton — RAIL MILL and FROG SHOP — Atchison, Topeka & Santa Fe. R.R. Co., H. W. Wagner, ch. engr. (Eastern Lines), Topeka, plans rail mill and frog shop, here. $175,000.

Tex., Amarillo—LAUNDRY—G. Lindsey, having plans prepared by J. R. Smith, 310 Blackburn Bldg., 1 story and basement, brick and rein.-con. laundry. $45,000.

Tex., Ft. Worth—PETROLEUM BUILDING—R. O. Dulaney, F. & M. Bank Bldg., having plans prepared by W. C. Hedrick, 1st Natl. Bank Bldg., 12 story (ultimately 20 story) and basement, 50 x 95 ft., stone and terra cotta, 6th and Throckmorton Sts. $500,000.

Tex., Houston—PACKING PLANT—J. L. Jones, 1116 Bissonet St., having plans prepared by J. W. Northrop, 302 West Bldg., 3 story, 75 x 100 ft., brick and tile, Commerce and Hamilton Sts. $50,000. M. L. Diver, Calcasieu Bldg., San Antonio, engr.

Tex., Olmito (near Brownsville)—LIGHT PLANT—A. Parker Securities Co., Brownsville, soon takes bids light plant, here. $40,000.

Tex., San Antonio—PLANT—Fraternal Supplies Mfg. Co., c/o Manufacturers Assn., Gunter Hotel, purchased site and plans plant, manufacturing uniforms. $100,000. Engineer and architect selected soon.

Tex., Sonora—LAUNDRY—Sonora Laundry Plant, c/o T. Driscoll, San Angelo, plans new plant, here. $40,000 (incl. machinery).

Okla., Sentinel—COTTON GIN—Sentinel-Co-operative Gin Co. plans modern cotton gin plant. $40,000.

Calif., Los Angeles — FACTORY — Advance Auto Body Wks., 515 Mission Rd., had revised plans prepared by H. Bean, Central Bldg., 2 story, 125 x 146 ft., Class "A" Mission Rd. and Macy St. $40,000. Former bids rejected. Noted Feb. 11.

Calif., Los Angeles—WAREHOUSE and MILL—Poultrymens Co-operative Milling Assn. having plans prepared by J. M. Cooper, Rives-Strong Bldg., warehouse and mill, Union Pacific Manor Dist. $100,000.

Calif., Pomona — FACTORY — Interests represented by R. L. Knox, San Antonio Fruit Growers Exch., plans factory, 3rd St. $40,000 or more.

Calif., Vallejo — PLANT — Sacramento River Fishermen's Union, Pittsburg, plans packing and icing plant, here. $50,000.

Ont., Brucemines—HARDWOOD PLANT —W. Parkinson, Akalyn, Wis., plans hardwood plant, here. $1,000,000.

Ont., St. Catharines — DAIRY and REFRIGERATION PLANT — Silverwoods, Ltd., London, plans dairy and refrigeration plant, here. $75,000. Private plans.

Bids Desired

Mass., Boston—FACTORY—Eagles Mattress Co., 17 Nassau St., taking bids altering and constructing 4 story, brick addition, 113 West Brookline St. $40,000. A. Rosenstein, 220 Devonshire St., archt.

Mass., Boston—SHOP—See "Contracts Awarded."

Mass., Lynn — REPAIR and SERVICE GARAGE — M. Galaid, 540 Beach St., Revere, taking bids 1 story, 85 x 220 ft., brick, 234 Chestnut St. $70,000. E. Earp, 333 Union St., archt. Noted May 27.

Mass., Springfield — MANUFACTURING —See "Contracts Awarded."

R. I., Cranston — SILK MILL — Respro Mills, Inc., W. Midley, treas., taking bids 2½ story, 105 x 340 ft., brick, Lexington Ave. $100,000. C. R. Makepeace, Butler Exchange Bldg., Providence, archt. Noted July 16.

Pa., Laurelton — HEATING PLANT — June 12, by Laurelton State Village, c/o H. H. Wolf, doctor, 1 story, 40 x 50 ft., concrete stone and steel central heating plant, plain foundation, Contr. 1; two 300 hp. boilers, etc. Contr. 2; 8 x 200 ft. radial brick chimney and foundations, Contr. 3; and 3,500 lin.ft. steam distributing systems and piping, Contr. 4. G. S. Idell, Corn Exch. Bldg., Phila., archt. S. A. Jelette Co., 1200 Locust St., Phila., engrs.

Pa., West Easton (Easton P. O.)—MILL —June 9, by W. Michler, archt., 601 Drake Bld., Easton, 3 story and basement, 103 x 109 ft., rein.-con., brick and steel, plain foundation, here, for Chipman Knitting Mills, Easton.

O., Cleveland—FACTORY—W. J. Wefel, archt., 5716 Euclid Ave., taking bids 2 story and basement, 40 x 140 ft., brick and steel addition, for Domestic Electric Co., C. A. Duffer, pres., 7209 St. Clair Ave. $50,000. Noted Mar. 25.

Ill., Chicago—FACTORY—June 10, by A. Epstein, archt., 2001 West Pershing Rd., 2 story, 50 x 160 ft., brick and terra cotta, 37th and iron Sts., for Chicago Pneumatic Tool Co., 572 West Randolph St. $45,000.

Okla., Bartlesville—GASOLINE PLANT —See "Contracts Awarded."

Calif., Los Angeles—SUBSTATION—See "Contracts Awarded."

Contracts Awarded

Mass., Boston—CANDY and ICE CREAM FACTORY—J. W. Allen & S. H. Whitely, Tremont Bldg., 3 story, 40 x 70 ft., brick, plain foundation, 12 Minor St., to E. J. Farrell, 433 Tremont St. Archts. est. $40,000.

Mass., Boston—SHOP—F. B. Curry, 72 East Dedham St., will build 3 story, 40 x

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Buildings—Industrial (Continued)

65 ft., brick addition. Work will be done by separate contracts. $50,000. Private plans.

Mass., Cambridge (Boston P. O.) — PLANT — Lever Bros. Co., 164 Bway., 4 story, brick addition Bway. and Burleigh St., to W. H. Whitcomb Constr. Co., 6 Beacon St., Boston. Archts. est. $40,000-$50,000.

Mass., Melrose (Ind. br. Boston)—REPAIR SHOP and CAR HOUSE—Eastern Massachusetts St. Ry. Co., 5 Fernwood St., Revere altering and constructing 1 story, 100 x 225 ft., brick, to R. A. Doyle, 32 Caldwell Crescent, Lynn. Archts. est. $50,000.

Mass., Readville (Ind. sta. Boston)—SAND BLAST—New York, New Haven & Hartford R.R., E. Gagel, ch. engr., New Haven, Conn., 1 story, 110 x 150 ft., brick and steel, here, to Tredennink-Billings Co., 10 High St., Boston. Archts. est. $40,000 or more. Noted May 13.

Mass., Somerville (Boston P. O.)—REPAIR and SERVICE GARAGE—C. E. Hall & Sons Co., 60 Cross St., 1 story, 90 x 135 ft., rein.-con. and brick, Cross St., to W. T. Reed Co., 201 Devonshire St., Boston. Archts. est. $50,000.

Mass., South Boston (sta. Boston) — POWER HOUSE—Boston Elevated R.R. Co., Park Sq. Bldg., Boston, will build 3 story, 35 x 95 ft., rein.-con., brick and steel, East 1st St., here, by day labor. $130,000. Dwight P. Robinson Co., 125 East 46th St., New York City, engrs.

Mass., Springfield — MANUFACTURING —Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa., will build various sizes, brick and steel, manufacturing additions, at East Springfield, here. $1,000,000. Work will be done by separate contracts. B. H. Prack, Martens Bldg., Pittsburgh, Pa., archt.

Pa., New Castle — MANUFACTURING PLANT — Natl. Radiator Co., Johnstown, 1 story irregular shaped, brick and steel addition, here, to Austin Co., Union Trust Bldg., Pittsburgh. Archts. est. $100,000.

Pa., Phila.—SUB-STATION—Phila. Electric Co., 10th and Chestnut Sts., 1 story, balcony and basement, 50 x 99 ft., rein.-con. and brick, plain foundation, 52-54 North 6th St., to F. M. Harris Co,. 1520 Parrish St. Noted Apr. 29.

Md., Baltimore—SERVICE and SALES—Owens & Sisco, archts., Continental Bldg., 1 story, 90 x 195 ft., concrete and brick, plain foundation, 29th St. and Remington Ave., to Price Constr. Co., Maryland Trust Bldg., for Wilson Nash Motors Co., 1109 Cathedral St. $65,000. Noted Apr. 22.

O., Cincinnati — MANUFACTURING — Crosby Radio Co., Colerain Ave., 6 story and basement, 75 x 260 ft., brick and rein.-con., plain foundation, Sassafrass St., to Ferro Concrete Co., Elm St., $300,000.

O., Cleveland — LAUNDRY — Cleveland Sanitary Wet Wash Co., H. H. Hood, pres.-genl. mgr., 6204 Central Ave., 1 and 2 story, 100 x 120 ft., brick and steel addition, 9245 Beckman Ave., to S. W. Emerson Co., Union Bldg. Archts. est. $50,000.

Mich., Grand Rapids—FACTORY—Amer. Seating Co., 1 story, rein.-con., brick and steel, plain foundation, 59 x 183 ft. and 40 x 169 ft. lumber storage and dry kiln building, 100 x 258 ft., and 45 x 59 ft. pressed steel shops, 90 x 459 ft. wood shops and foundry, and 85 x 146 ft. wood shops, to Owen-Ames-Kimball Co., Grand Rapids. Noted Apr. 8.

Ill., La Salle—CEMENT PLANT—Central States Eng. Co., 111 West Monroe St., Chicago, complete portland cement plant, incl. mill, 1,000,000 bbl. annual capacity, etc., to Cowen Eng. Co., 111 West Monroe St., Chicago. Engrs. est. $3,000,000.

Wis., Jefferson — SERVICE STATION and REPAIR SHOP—Tuny & Reul, 1 story and basement, 50 x 100 ft., brick, rein.-con. and steel, plain foundation, to Stengel Constr. Co., Jefferson. Archts. est. $40,000.

Wis., Luck—PLANT—Atlas Co-operative Creamery Co., 2 story and basement, 50 x 56 ft. dairy plant, rein.-con., brick and steel, plain foundation, to A. L. Cedarburg, Luck. Noted May 20.

Wis., Milwaukee — MACHINE SHOP — Heil Co., 26th and Montana Aves., 1 story, 100 x 300 ft., brick and steel, plain foundation, Montana Ave., to Klug & Smith Co., 69 Wisconsin Ave.

Minnesota — SHOPS — State Dept. of Administration & Finance, St. Paul, to Pfeffer Constr. Co., 402 Builders Exch. Bldg., Duluth, constructing maintainance shop at Detroit $19,615, Brainard $19,225, and Bemidji $18,990; also to Swensen & Hakanson, 914 Builders Exch. Bldg., 1 at Rochester, $19,336. Grand total $77,166.

Mo., Kansas City—POWER PLANT, etc. —St. Marys Hospital, 28th and Main Sts., 1 story and basement, 60 x 138 ft., rein.-con. and brick boiler room and steam laundry, to G. P. Reintjes Co., 314 Interstate Bldg., $60,000 cost plus percentage basis. Noted Mar. 25.

Mo., St. Louis—LIGHT MANUFACTURING—B. T. Conwell, Jr., 1811 Liberty Central Bldg., 1 story, 80 x 600 ft., concrete, Riverside Dr., to Widmer Eng. Co., Laclede Gas Bldg. Engrs. est. $150,000.

Tex., Ft. Worth—PRINTING PLANT—Bunker Printing & Book Co., c/o A. Goodhart, Worth Bldg., 1 and 2 story and part basement, 200 x 200 ft., brick and stone, Adams, Daggett, Jarvis and Henderson Sts., to Butcher & Sweeney, 800½ Taylor St., $106,000. Noted Apr. 29.

Okla., Bartlesville—GASOLINE PLANT —Phillips Petroleum Co. will build 3 unit, 3,000,000 cu.ft. daily capacity gasoline plant, by day labor. Private plans.

Calif., Los Angeles—SUB-STATION—Dept. Water & Power Bureau, Municipal Water & Power Bldg., will alter 2 story sub-station, 120 East 4th St., by day labor. $45,000.

Calif., San Francisco — FACTORY and OFFICE—H. J. Brunnier, engr., Sharon Bldg., 2 story, rein.-con., 4th and Townsend Sts., to Lindgren-Swinerton, Inc., Standard Oil Bldg., for Amer. Radiator Co., 2nd and Townsend Sts. Approximately $70,000. Noted May 13 under "Buildings—Commercial."

Calif., Santa Monica—EXCHANGE—M. Sasso, archt., I. W. Hellman Bldg., Los Angeles, general contract 6 story, 60 x 80 ft., brick and steel here, to Western States Constr. Co., 1337 3rd St., for Santa Monica Telephone Co. Archts est. $200,000. Noted Mar. 25.

Miss., Purvis — POWER HOUSE — City State Investment Cp., 128 North Wells St., Chicago, purchased Purvis Pub. Serv. Co., J. A. Bennett, supt., and awarded contract power house, incl. 100 hp. Worthington oil engine, 50 hp. Fairbanks-Morse engine from old location, 12 ton ice plant and equipment, 125,000 gal. capacity tank on 100 ft. tower, etc., to A. Garrett, Canal Commercial Bldg., New Orleans, La. Engrs. est. $125,000. Company will also replace pine poles with creosoted poles in 10 mi. power distribution system and make extensions to outlying sections.

Buildings—Educational, Religious

Proposed Work

Me., Caribou — HIGH SCHOOL — Town, Bd. Educ., having sketches made by Bunker & Savage, Augusta Trust Bldg., Augusta, 2 story and basement, brick and stone high school. $175,000.

Mass., Boston — ADMINISTRATION, COMMUNITY, etc. — Congregation Adath Israel Temple, H. Levi, rabbi, 602 Commonwealth Ave., having plans prepared by McLaughlin & Burr, 88 Tremont St., 3 story, irregular shaped, brick and limestone temple, administration and community wings, etc., Riverway, Longwood Ave., Plymouth and Brenner Sts. $1,000,000. Noted Apr. 29.

Mass., Jamaica Plain (br. Boston) — SCHOOL — City, Schoolhouse Dept., Boston, plans 2 story and basement, brick and stone, Pershing Rd. and Centre St., here. $150,000. Engineer and architect not selected.

Mass., Leominster — SCHOOL — City, School Bd., having plans prepared by M. A. Dyer Co., 1 Beacon St., Boston, addition to Lancaster School. $150,000.

Mass., Peabody—SCHOOL—City having plans prepared by J. H. Bickford, 6 Beacon St., Boston, 2 story and basement, 70 x 125 ft., brick, Central St., "Bowditch Dist." $150,000. Noted Apr. 1.

R. I., Central Falls (Ind. br. Pawtucket) —HIGH SCHOOL—City, R. H. Bennett, supt. schools, having preliminary plans prepared by O'Malley & Fitzsimmons, Fanning Bldg., Pawtucket, 2 story and basement, brick and stone addition, Broad St. $150,000 or more.

R. I., Providence — CHURCH — Central Congregational Church, A. Bradford, pastor, having plans prepared by F. E. Jackson, Turks Head Bldg., 1 story and basement, brick and stone addition. $150,000.

Conn., New Haven—CHURCH—Church of Redeemer, R. M. Hughton, pastor, having preliminary sketches made by W. S. Gregory, engr. and archt., 1170 Bway., New York City, church, Cold Spring St. and Whitney Ave. To exceed $150,000.

N. Y., Buffalo—SCHOOLS—Bd. Educ., Genesee Bldg., plans elementary schools and additions. $1,545,000.

N. Y., Rochester—SCHOOL—Bd. Educ., Municipal Bldg., J. S. Mullen, secy., having sketches made by J. M. Tracy, Duffy-Powers Bldg., probably 2 story and basement, rein.-con., brick and stone, Ford St. $300,000.

N. Y., Rochester—SCHOOLS, etc.—Bd. Educ. having plans prepared by J. M. Tracy, 700 Duffy-Powers Bldg., School 7, on Lake Ave. $350,000, and School 34, on Lexington Ave., $300,000, both 2 story and basement, concrete, brick and steel, plain foundation; also by Gordon & Kaelber, Sibley Bldg., 3 story and basement, brick high school, plain foundation, Hudson Ave., $2,500,000.

N. Y., Sayville — SCHOOL — Bd. Educ. having plans prepared by Tooker & Marsh, engrs. and archts., 101 Park Ave., New York City, brick, steel and stone, plain foundation. $350,000.

N. J., Vineland — HIGH SCHOOL — Bd. Educ. having plans prepared by Guilbert & Betelle, engrs. and archts., Chamber of Commerce Bldg., Newark, brick, steel and stone, plain foundation. $500,000.

Pa., Cairnbrook—HIGH SCHOOL—Bd. School Directors Shade Twp., c/o C. Breebaker, having plans prepared by E. H. Walker, 26 East Church St., Somerset, 1 story and basement, 104 x 162 ft., brick and steel high school. $150,000.

Pa., Pittsburgh — CHURCH — Greek Catholic Church of The Holy Ghost, Superior Ave., having plans prepared by C. Strong, Keystone Bldg., 2 story and basement, 50 x 100 ft., brick and hollow tile, Superior Ave. $150,000.

O., Springfield — COLLEGES — Perkins, Fellows & Hamilton, archts., 814 Tower Court, take bids about June 4, 3 story, 66 x 137 ft., brick, rein.-con. and stone, for Wittenberg College. $150,000.

Ind., Bloomington — SCHOOL — Bd. School Comn. soon takes bids brick and rein.-con. school. $150,000. A. Grindle, Bloomington, archt.

Ind., Indianapolis—SCHOOL—Bd. School Comrs., N. M. Frazer, dir., having sketches made by Kopf & Deery, 403 Indiana Pythian Bldg., 3 story, brick and rein.-con. school, incl. 2 gymnasiums, library, etc., 34th and Meridian Sts. $1,000,000.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., having plans prepared by G. D. Mason & Co., 508 Griswold St., 2 story and basement, rein.-con., brick and steel, plain foundation, Hilldale St. and Packard Ave. $176,400.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., having plans prepared by I. J. Dise, 2631 Woodward Ave., (1st unit) 2 story and basement, rein.-con., brick and steel, plain foundation, Lakewood and Leipsic Aves. $174,400.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., having plans prepared by N. C. Sorensen, 3076 Philip Ave., (1st unit) 2 story and basement, rein.-con., brick and steel, plain foundation, Indiana and Norfolk Aves. $176,000.

Mich., Royal Oak (Ind. br. Detroit)—HIGH SCHOOL—Voted $870,000 bonds, 3 story, 50 room and gymnasium, rein.-con., brick and steel, plain foundation, Washington Ave., for Bd. Educ. F. D. Madison, Royal Oak, archt. Noted Jan. 29.

Ill., Chicago—MUSIC CONSERVATORY —A. Foster, archt., 225 North Michigan Ave., made plans and soon takes bids 1 story, 40 ft. high, 75 x 102 ft., with two wings, etc., rein.-con., brick, steel and terra cotta, 95th, Loomis, Throop and 97th Sts., for School Sisters of Notre Dame.

Ill., Morgan Park (sta. Chicago) — CHURCH — Morgan Park Episcopal Church, having plans prepared by Perkins, Fellows & Hamilton, 814 Tower Court, Chicago, and takes bids about June 21, 3 story, 150 x 172 ft., brick and stone addition, plain foundation. $230,000.

Calif., Davis — HIGH SCHOOL — Davis High School Dist. voted $150,000 bonds, group buildings. Noted Jan. 28.

Calif., Los Angeles—SCHOOL—City of Los Angeles School Dist. plans fireproof, San Pedro St. $150,000. Architectural Dept. Bd. Educ., archts.

Calif., Marysville — HIGH SCHOOL — Marysville High School Dist. voted $400,000 bonds, fireproof high school. Noted Mar. 11.

Calif., Oakland — ADMINISTRATION and DORMITORY — California Concordia College, c/o T. Brohm, pastor, 64th Ave. and Brann St., plans (1st section) fireproof administration building and

Buildings—Educational, Religious (Cont.)

dormitory, 64th Ave. and Foothill Blvd. $250,000.

Calif., Sacramento — CATHEDRAL — Westminster Presbyterian Church, having plans prepared by Dean & Dean, City Library Bldg., brick and concrete, 13th and N Sts. $250,000. Noted Apr. 1.

Calif., Yreka—HIGH SCHOOL—Siskiyou Co. plans forming Junior High School Dist., following which bonds for $185,000 or more will be voted to finance construction new high school.

Ont., Simcoe—SCHOOLS—Bd. Educ., C. H. Martin, chn., had plans prepared 2 story, 6 room addition to 1 unit, and 4 rooms to other 10 room unit. $190,000.

Ont., Toronto — CHURCH — Hill Dist. Presbyterian Church, 2 St. Clair Ave. E., having plans prepared by Wickson & Gregg, Temple Bldg., 1 and 2 story and basement, rein.-con., brick and steel, plain foundation, De Lisle Ave. $175,000.

Ont., Toronto — HIGH SCHOOL — York Twp., 40 Jarvis St., having plans prepared by Burden & Gouinlock, 101 King St. W., 2 or 3 story and basement, 10 or 12 room, rein.-con., brick and steel, plain foundation. $175,000.

Que., Limoilou—MONASTERY—Quebec Roman Catholic School Bd., A. Taschereau, secy., 77 St. Ursule St., Quebec, having plans prepared by R. Chenevert, 20½ D'Aiguillon, 4 story, 47 x 65 ft., rein.-con., brick and stone, 13th St., here, for Teachers of St. Francois D'Assise School. $200,000.

N. B., Buctouche — CHURCH — Roman Catholic Bishop of St. John, having plans prepared by F. J. Leger & R. A. Frechette, 30 Bonnacord St., Moncton, rein.-con., brick and steel church. $200,000.

Bids Desired

Vt., Rutland—SCHOOL—St. Josephs Roman Catholic Church taking bids 2 story, 55 x 199 ft., and 45 x 45 ft., brick and stone, plain foundation, Convent Ave. $150,000. Private plans.

Mass., Boston—CHURCH—Christ Episcopal Church, South Hamilton, taking bids 1 story and basement, brick and stone, Asbury St., here. $150,000. Smith & Walker, 80 Boylston St., archts.

Mass., Swansea — HIGH SCHOOL — Town, E. R. Steven, chn. com., taking bids 2 story and basement, 105 x 130 ft., brick and stone, plain foundation. $175,000. Ritchie, Parsons & Taylor, 15 Ashburton Pl., Boston, archts.

N. J., Wildwood—HIGH SCHOOL—June 11, by Bd. Educ., brick and stone high school annex, Pacific Ave. $295,000. W. C. Todd, secy.

Pa., Scranton—CHURCH and SCHOOL —June 9, by H. L. Cain & A. N. Debbins, archts., 1709 Arch St., Phila., 3 story and basement, 31 x 40 ft., and 45 x 115 ft., rein.-con., steel and stone, plain foundation, Jefferson and Linden Sts., for Elm Park Methodist Episcopal Church.

O., Cleveland Heights (Warrensville P. O.)—CHURCH—June 15, by Corbusier, Lenski & Foster, archts., B. F. Keith Bldg., Cleveland, 1 story, brick, steel and concrete, Lee Rd., here, for Cleveland Heights Methodist Church, G. E. Pickard, 14280 Superior Rd., Cleveland, pastor. $250,000.

O., Rocky River—SCHOOL—June 22, by Bd. Educ., E. S. Sisson, clk., 2 story and basement, 80 x 140 ft., brick, steel and concrete, West Lake Rd. $175,000. Fox, Foose & Duthie, 6523 Euclid Ave., Cleveland, archts.

Ind., Indianapolis—SCHOOL—June 8, by Bd. Educ., N. M. Frazer, dir., brick and rein.-con. auditorium and domestic science rooms, School 9, 740 East Vermont St. $175,000. McGuire & Shook, 320 Indiana Pythian Bldg., archts. Snyder & Rotz, Indianapolis, engrs. Noted Dec. 17.

Ill., Chicago—ELECTRICAL SCHOOL—June 7, by A. S. Alschuler, archt., 38 East Jackson Blvd., 5 story, 95 x 120 ft., rein.-con., brick and terra cotta, 1701-1709 West Congress St., for Coyne Electrical School, 1300 West Harrison St. $300,000.

Neb., Lincoln—HIGH SCHOOL—June 15, by L. G. Ludlam, secy. School Bd., 2 story and basement, brick addition, 22nd and J Sts. $255,000. Davis & Wilson, 525 South 13th St., archts.

Neb., Mitchell—SCHOOL—June 10, by Secretary School Bd., 2 story and basement, brick and stone school addition. $150,000. Meginnis & Schaumberg, 405 Nebraska State Bldg., Lincoln, archts. Noted Mar. 25.

Ark., Little Rock — HIGH SCHOOL — June 14, (extended date), by Special School Dist., R. D. Fones, secy., 800 Louisiana St., 4 story and basement, rein.-con., brick, stone, steel and terra cotta, Park Ave. $850,000. Wittenborg, Delony & Watts, 408 Home Life Bldg., Mann & Stern, A.O.U.W. Bldg., and J. P. Almand, 1107 Boyle Bldg., archts. Noted May 13.

Calif., Downey — GYMNASIUM and MANUAL ARTS—June 14, by Dist. Trustees, two 1 story, 90 x 112 ft. gymnasium and 52 x 180 ft. manual arts buildings, brick, for Downey Union High School Dist. Kistner & Co., Detwiler Bldg., Los Angeles, archt.

Calif., Los Angeles — HIGH SCHOOL — June 9, by Bd. Educ., Fairfax High School, 1 and 2 story 80 x 200 ft. gymnasium with 40 x 80 ft. wing, and 2 story class room building, brick, for Los Angeles City School Dist. $200,000. Parkinson & Parkinson, Title Insurance Bldg., archts. Noted July 23.

Calif., Oakland—SCHOOLS—Bd. Educ. taking bids, Lincoln School, 1 story, rein.-con., Jackson St., $150,000; and Clawson-Longfellow Jr. High School, fireproof, 33rd, Market, West and Brockhurst Sts. $350,000. J. J. Donovan, Tapscott Bldg., archt.

Bids Received

Mass., Brighton (sta. Boston)—SCHOOL —City, Schoolhouse Dept., Boston, May 20, 2 story and basement, brick and stone, Washington St. and Corey Rd. "Bennett Dist." from Phandor Co., 18 Tremont St., Boston, $101,000. Noted May 13.

Conn., New Canaan—HIGH SCHOOL—Town, School Building Com., May 21, general contract 2 story and basement, brick and steel, South Ave., from E. & F. Constr. Co., 94 Wells St., Bridgeport, $101,625. Noted May 13.

N. Y., Brooklyn—SCHOOL—W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., May 26, P. S. 203, Ave. M. from East 51st to 52nd Sts., for Bd. Educ., 500 Park Ave., New York City, from G. F. Driscoll Co., 548 Union Ave., $334,850. Noted May 20.

N. J., Paterson — SCHOOL — City, masonry and carpentry contract, etc., 3 story, brick, 20th Ave., from Doremus Benson Co., Paterson, $256,239.

Ia., Corning — HIGH SCHOOL — Bd. Educ., 2 and 3 story and basement, rein.-con., brick and stone, plain foundation, from C. E. Larson, Fort Dodge, $126,989. Noted May 6.

Contracts Awarded

Me., Scarboro—HIGH SCHOOL—Town, Bd. Educ., 2 story and basement, brick and stone high school, to J. J. Maloney Co., Benoit Bldg., Portland. Archts. est. $160,000.

N. H., Concord—HIGH SCHOOL—City, H. F. Lake, 97 North Main St., 2 story and basement, brick and stone, "Union School Dist.," to L. H. Shattuck, Inc., 208 Granite St., Manchester, $449,458. Noted May 13.

Mass., Concord—CHURCH—First Church Christ Scientist, 1 and 2 story and basement, brick and stone additions, to D. F. and W. G. Burns, Inc., 9 Park St., Boston. Archts. est. $150,000.

Mass., Malden (Boston P. O.) — CONVENT and CHAPEL — Church of Immaculate Conception, R. Neagle, pastor, Pleasant St., 1 and 2 story and basement, 18,000 sq.ft. floor space, brick and granite, plain foundation, Pleasant St., to T. O'Connor Co., Kendall Sq., Cambridge. Archts. est. $175,000. Noted May 27.

Mass., Quincy (Boston P. O.)—DORMITORY — Eastern Nazarene College, Wollaston Park, 3 story and basement, 50 x 100 ft., brick and stone, East Elm Ave., to Clark & Smith, 1419 Hancock St. Archts. est. $150,000.

Conn., Danbury — DORMITORY — State Bd. Educ., 130 Washington St., Hartford, general contract 3 story and basement, 40 x 170 ft., girls dormitory, brick and steel, here, to Hewlett Co., 886 Main St., Bridgeport, $128,960. Noted May 27.

Conn., Stamford — NURSES' HOME—Stamford Hospital, brick and steel nurses' home, to Amsterdam Building Co., 441 Lexington Ave., New York City. Noted May 13.

N. J., Hillside (mail Elizabeth) — SCHOOL—Bd. Educ. Hillside Twp., Central Grammar and High School, Coe Ave., P. S. 7, Gurd Ave., to G. W. Mercer, 105 High St., Perth Amboy. Noted Apr. 29.

N. J., Linden—SCHOOL—Bd. Educ., general contract 3 story, brick, steel and stone, plain foundation, to Limouze Bros., 111 8th St., West New York, $402,000; heating, to R. S. Smith, 40 Caldwell Pl., Elizabeth, $67,092. Noted Dec. 3.

N. J., Newark — CHURCH — St. Rocco Roman Catholic Church, J. Donate, pastor, Hunterdon St. and 14th Ave., brick, steel and stone, plain foundation, Hunterdon Ave., to W. H. Fissell & Co., 47 West 34th St., New York City. Archts. est. $150,000.

Pa., New Castle — CHURCH — Third United Presbyterian Congregation, general contract 1 and 2 story and basement, irregular shaped, steel and stone, to A. Wishart & Son, Sharon. Archts. est. $150,000. Noted May 20.

Pa., Phila.—CONVENT—H. D. Dagit & Son, archts., 1329 Race St., 3 story and basement, 69 x 80 ft., brick, steel and stone, plain foundation, 47th and Windsor Sts., to J. McShain, Inc., 1713 Sansom St., for St. Francis De Sales Convent, W. J. Crane, 47th and Windsor Sts., rector. Archts. est. $150,000. Noted May 20.

Md., Baltimore — PARISH HOUSE — Grace and St. Peter Protestant Episcopal Church, Park Ave. and Madison St., 4 story and basement, irregular shaped, rein.-con., brick and steel, plain foundation, to B. F. Bennett Building Co., 123 South Howard St., $150,000.

O., Lorain — SCHOOL, CONVENT and PARISH HOUSE — St. Ladislas Roman Catholic Church, A. Koeller, pastor, 1412 East 29th St., 85 x 98 ft. school, 32 x 45 ft. convent, and 30 x 54 ft. parish house, each 2 story, brick, steel and concrete, to L. A. Burgett Co., 6th and Bway. Sts. Archts. est. $225,000.

Ind., Gary—SCHOOL—Bd. Educ., general contract Horace Mann School, 3 story, brick, stone and rein.-con., to R. Danner, Hammond, $569,189; plumbing, to Gary Plumbing & Heating Co., Gary, $44,900; heating and ventilating, to C. H. Maloney & Co., Gary, $83,000; electrical work, to Hatfield Electric Co., 102 South Meridian St., Indianapolis, $41,712. Noted Apr. 29.

Ill., Chicago—SCHOOL—Bd. Educ., 650 South Clark St., Josephine Carson Locke School, 3 story and basement, 72 x 386 ft., brick, stone and terra cotta, Pratt and Octavia Aves., to Hanson Bros. Co., 127 North Dearborn St., $304,993. Noted May 6.

Minn., Minneapolis — SCHOOL — Bd. Educ., 305 City Hall, general contract 2 story and basement, rein.-con., brick and stone, 50th St. and Humboldt Ave. S., to L. E. Brophey & Co., 531 Lyndale Ave. N., $133,000. Noted May 20.

Mo., Cape Girardeau — SCHOOLS — Bd. Educ., L. L. Bowman, pres., 2 story, 46 x 70 ft. wings on May Green School, to A. H. Gerhardt, $34,890; and 2 story and basement, 80 x 164 ft. addition to Washington and West Schools, to J. Robinson, Anna, Ill., $179,611. Noted Apr. 15.

Tex., Amarillo — CHURCH — Central Presbyterian Congregation, 2 story, 140 x 210 ft., rein.-con., brick and steel, to M. J. Green, Manhattan, Kan. Archts. est. $250,000. Noted Mar. 4.

Calif., Los Angeles—CHURCH—E. G. Martin, archt., brick and steel, Wilton Place and 3rd St., to Mutter Bros., San Gabriel, for Roman Catholic Archbishop, St. Brendins Parish Church. $98,050. Noted Apr. 29.

Calif., Santa Cruz — SCHOOL — H. A. Minton, archt., Bank of Italy Bldg., 2 story and basement, rein.-con., to C. S. McCray, San Luis Obispo, for Holy Cross Church. $150,250. Noted Apr. 22.

Calif., Whittier — SCHOOL — Trustees Whittier School Dist., general contract Bailey School, 2 story, rein-con. to Salih Bros., Detwiler Bldg., Los Angeles, $115,912. Noted Apr. 29.

Que., Montreal — SCHOOL — Roman Catholic School Comn., new St. Cecile School, to Quinlan, Robertson & Janin, Ltd., 50 Notre Dame St. W., Montreal, $184,900.

Que., Sherbrooke—CONVENT—Srs. de Congregation Notre Dame, Mont Notre Dame, general contract convent, Convent St., to Gendron, Bonin & Poirier, Sherbrooke. Archts. est. $200,000.

Ont., Windsor — SCHOOL — Bd. Educ., general contract 2 story and basement, 180 x 250 ft., Hall Ave., to Strain & Emery, Dowler Bldg., $239,779; plumbing, heating and ventilating, to J. L. Heureux, 43 Wyandotte St. E., $60,352. Noted Apr. 29.

Federal Government Work

Proposed Work

Mass., South Boston (sta. Boston)—Spec. 5185—Dredging—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids May 5, dredging at Naval Dry Dock, here. Noted May 20.

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Federal Government Work (Continued)

N. J., Lakehurst — Water Tank — Spec. 5215—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans elevated steel water tank and piping, etc. at Naval Air Station, here.

Va., Norfolk—Road—Spec. 5221—Bureau Yards & Docks Navy Dept., Wash., D. C., plans road, etc. at Naval Hospital, here.

Mo., St. Louis—FEDERAL—U. S. Treas. Dept., Wash., D. C., plans rein.-con., brick and steel, sub-treasury and federal building, Chestnut and 4th Sts., here. $1,000,000.

Colorado — Catchment Area, etc. — U. S. Dept. Interior, Natl. Park Serv., Yellowstone Park, Wyoming, making plans and takes bids about July 1, rain water catchment area and 250,000 gal. storage tank, here. $20,000. B. H. Burrell, Yellowstone Park, acting ch. engr.

Bids Desired

Mass., Rutland Heights — Roads and Walks — June 22, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., roads and walks at U. S. Veterans Hospital 89, here. L. H. Tripp, ch. constr. div.

Conn., New Haven—Dredging—July 2, by U. S. Engineer Office, Providence, R. I., dredging in New Haven Harbor, here; adv. E. N.-R. June 3.

N. Y., New York—Dredging—June 28, by U. S. Engineer Office, Army Bldg., 39 Whitehall St., dredging and rock removal in Hudson River; adv. E. N.-R. June 3.

Pa., Pittsburgh — House — June 23, by U. S. Engineer Office, 2 story, lockkeepers house at Emsworth Dam, Ohio River, here; adv. E. N.-R. May 27 and June 3.

Del., Wilmington—Dredging—June 29, by U. S. Engineer Office, dredging inland waterway from Delaware River to Chesapeake Bay, Delaware and Maryland; adv. E. N.-R. June 3.

Md., Baltimore—Roadway—June 14, by Treas. Dept. at office Supervising Archt., Wash., D. C., roadway at U. S. Marine Hospital, here. Noted Nov. 12.

D. C., Wash.—Lumber—June 11, by A. L. Flint, genl. purch. officer, Panama Canal, southern yellow pine and douglas fir lumber, timbers, creosoted piles and white maple lumber, etc. Circular 1737.

W. Va., Huntington—Lock House—June 29, by U. S. Engineer Office, constructing frame lock house at Lock 7, Muskingum River; adv. E. N.-R. June 3.

Fla., Miami—Dredging—June 24, by U. S. Engineer Office, Jacksonville, dredging, rock removal and jetty foundations between ocean and harbor, here.

Fla., Orlando — Extension — June 21, by Treas. Dept. at office Supervising Archt., Wash., D. C., extension to U. S. Post Office, here.

La., New Orleans—June 8, by U. S. Engineer Office, 140 Decatur St., approximately 225,000 cu.yd. earthwork in Lake Pontchartrain Levee Dist.

O., Dayton—Foundations—June 21, at office Constructing Quartermaster, Wright Field, concrete foundations for storehouse, at Wright Field, here; adv. E. N.-R. June 3.

O., Dayton—Water Tank—June 22, at office Constructing Quartermaster, 200,000 gal. elevated water tank at Wright Field, here; adv. E. N.-R. June 3.

Ill., Great Lakes (br. Waukegan)—Roads —Spec. 5181—June 16, by Bureau Yards & Docks, Navy Dept., Wash., D. C., road and walks at Naval Training School, here.

Wis., Milwaukee—Breakwater—June 28, by U. S. Engineer Office, breakwater at Milwaukee Harbor; adv. E. N.-R. June 3.

Mo., St. Louis—Plumbing, etc.—June 18, by Treas. Dept. at office Supervising Archt., Wash., D. C., plumbing and improving existing facilities, at U. S. Marine Hospital, here.

Mo., St. Louis—Engines, etc.—June 22, at office secy. Mississippi River Comn., 1311 International Life Bldg., 1 pair tandem compound condensing engines, 2 watertube boilers, and transferring cabin, etc., on steamer "Mississippi"; adv. E. N.-R. June 3.

Mo., St. Louis—Hulls—June 23, by U. S. Engineer Office, Customhouse, 5 steel pile driver hulls; adv. E. N.-R. June 3.

Ark., Hot Springs—Equipment—June 22, at office Constructing Quartermaster, Army & Navy General Hospital, mechanical equipment, in power plant and laundry building, refrigeration system, etc.

Wash., Yakima — Remodeling — June 18, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

Calif., Livermore — Road — June 22, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., roadwork at U. S. Veterans Hospital 102, here.

Bids Received

D. C., Wash. — Generators — U. S. Engineer's Office, 1068 Navy Bldg., May 18, 3 generators, switching and electrical equipment, from General Electric Co., River Rd., Schenectady, N. Y., $189,000. Noted Apr. 22.

D. C., Wash.—Pipe Line—U. S. Engineer Office, Navy Dept. Bldg. pipe line from old filtered water reservoir, for Dist. of Columbia water supply project, from Lock Joint Pipe Co., Ampere, N. J., excavation $1.90, rock excavation $4, furnishing and laying pipe and fittings $29, Class B concrete $20; from A. Pope, Arizona Ave. and Upton St. N. W., Class A concrete $30. Noted Apr. 15.

Va., Yorktown—Fire Protection—Spec. 5116—Bureau Yards & Docks, Navy Dept., Wash., D. C., foam fire protection system with gasoline engine driven equipment, at Naval Fuel Depot, here, from English Constr. Co., 15 West 91st St., New York City, $87,440; and electric motor driven equipment, from Pittsburgh-Des Moines Steel Co., 807 Curry Bldg., Pittsburgh, Pa., $82,700.

Ala., Florence—Conduit—U. S. Engineer Office, 2,000 ft. conduit, from Interstate Electric Co., 2104 1st Ave., Birmingham, $255.

La., New Orleans — Levee — U. S. Engineers Office, 140 Decatur St., May 20th, earthwork in Pontchartrain Levee Dist., from McWilliams Dredging Co., Carondelet Bldg., $61,000; in Bayou Boeuff Levee Dist., Norwood-Crockett Bayou Levee, from Dameron & Kenyon, Baton Rouge, $65,800; and Cason to Turners Bayou Levee, from Grasser Contg. Co., Canal-Commercial Bldg., $29,125. Noted May 13.

Ill., Jacksonville — Extension — Treas. Dept. at office Supervising Archt., Wash., D. C., May 26, extension to U. S. Post Office, here, from A. M. Lundberg, 208 North Bway., St. Louis, Mo., $19,400. Noted May 20.

Wyoming—Road—J. W. Johnson, dist. engr., Custom House, Denver, Colo., May 12, grading, etc., 1.98 mi. Dayton-Steamboat Rock Constr. Sect. 4, Natl. Forest Rd. Project, Sheridan Co. from Scott & Curlee, Sterling, Colo., $39,110. Noted May 6.

Tex., Galveston—Piling—U. S. Engineer Office, 729 creosoted piles, from International Creosoting & Constr. Co., 2205½ B St., Galveston, $11,270.

Colorado—Road—J. W. Johnson, dist. engr., Custom House, Denver, grading 4.95 mi. Ward-Raymond Natl. Forest Road Project, Boulder Co., from Pioneer Constr. & Eng. Corp., Denham Bldg., Denver, $38,-928. Noted May 6.

California—Road—C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., 9 Main St., San Francisco, grading and crushed rock paving 14.81 mi. Yuba Pass Natl. Forest Rd., Sierra Co., from Nevada Contg. Co., Fallon, Nev., $69,682. Noted May 13.

T. H., Pearl Harbor—Generator Sets—Spec. 5200—Bureau Yards & Docks, Navy Dept., Wash., D. C., May 26, motor generator sets, here, from General Electric Co., River Rd., Schenectady, N. Y. (1) $29,916 (2) $27,281 (3) $25,856 and (4) $22.50. Noted May 13.

Contracts Awarded

Conn., New London — Refrigeration Plant, etc. — Spec. 5199 — Bureau Yards & Docks, Navy Dept., Wash., D. C., automatic refrigeration and cold storage plant, at Naval Submarine Base, here, to Bay State Constr. & Supply Co., 200 Causeway St., Boston, Mass., $3,335 (90 days). Noted May 20.

Md., Baltimore — Storehouse — Treas. Dept. at office Supervising Archt., Wash., D. C., storehouse at U. S. Quarantine Station, here, to J. G. Bensel Co., 17 Guilford Ave., $2,571. Noted May 27.

Wis., Milwaukee—Concrete—C. Hubbard, supt. Lighthouses, Federal Bldg., concrete work at North Breakwater Lighthouse, to E. E. Gillen Co., 288 East Water St., $11,-249. Noted May 20.

Missouri—U. S. Engineer Office, Kansas City, 1,600 lin.ft. current retards in Missouri River, to Woods Bros. Constr. Co., 132 South 13th St., Lincoln, Neb., at $0.54 per ft. Noted May 13.

Calif., San Francisco — Garage — Spec. 5197—Bureau Yards & Docks, Navy Dept., Wash., D. C., temporary garage, at Naval Operating Base, Headquarters 12th Naval Dist., to R. E. Burgund, 806 Rodeo Dr., Beverly Hills, $6,486.

FEDERAL POWER COMMISSION

Application for Licenses and Permits

Applications

702—Minnesota Power & Light Co., 216 West 1st St., Duluth, Minn. — Wants License partially constructed power development, known as Gabbro Reservoir Project, in Isabella River, tributary of Kawishiwi River, Lake Co.

703—Utah Power & Light Co., Kearns Bldg., Kearns Bldg., Salt Lake City, Utah—Wants license constructing Paris Power Plant in Paris Creek, Bear Lake Co., Idaho.

704—California Oregon Power Co., California St., San Francisco, Calif.—Wants license 38 mi. transmission line from Mill Creek Power Plant in Siskiyou Co., Calif. to Klamath Falls, Klamath Co., Ore.

705—B. Dibble, Redlands, Calif.—Wants preliminary permit 60 ft. with power structures, in Rock Creek, Twin Falls Co., Idaho. Project conflicts with 313.

706—B. Dibble, Redlands, Calif.—Wants preliminary permit dam, 120 ft. high, with power structures, etc. in Snake River, Twin Falls Co., Idaho. Proposed project conflicts with 313.

707 — Pacific Gas & Electric Co., 245 Market St., San Francisco—Wants license 31 mi. temporary transmission line used during construction Tiger Creek power house and Salt Springs reservoir (Project conflicts with 137).

708—Sierra & San Francisco Power Co., 625 Market St., San Francisco, Calif.—Wants license Melones Power plant in Stanislaus River, Calaveras and Tuolumne Counties, developing approximately 2,200 hp. primary capacity and 3,400 installed hp.

709—Wabash Hydro-Electric Co., Indianapolis, Ind. — Wants preliminary permit power project in Wabash River, Cass Co.

710—Wisconsin Power & Light Co., 16 North Carroll St., Madison, Wis.—Wants preliminary permit power project in Wolf River, Shawano Co., developing approximately 2,560 hp. primary capacity and 9,600 hp. installed capacity.

711—Southern Sierras Power Co., Riverside, Calif.—Wants license transmission line from San Jacinto substation to consumers beyond Soboba Indian Reservation, in Riverside Co.

712—City of Twin Falls, Twin Falls, Idaho—Wants preliminary permit diversion dam, 10 ft. high, with power structures, developing about 7,000 hp. primary capacity, on Snake River (in conflict with project 313), in Twin Falls Co.

713—Utah Power & Light Co., Kearns Bldg., Salt Lake City, Utah—Wants License Upper and Lower Mill Creek Power plants developing about 625 hp. in Mill, Porters and Church Creeks, Salt Lake Co., Calif.

714—Mrs. W. W. Price & E. G. Galt, 600 Stockton St., San Francisco, Calif.—Wants license 40 hp. power project in Eau Claire Creek, El Dorado Co.

Unclassified

Proposed Work

Piles and Piers—Boston, Mass.—City, Dept. Pub. Wks., plans piles and fender piers in Long Wharf, Boston Harbor and Charles River. $25,000. J. H. Sullivan, comr.

Tow Boat—Albany, N. Y.—T. F. Farrell, supt. Bureau Canals, rejected bids May 14, steel screw motor tow boat, with Deisel engine.

Dry Dock, etc.—Slidell, La.—Canulette Shipbuilding Co. plans 60 x 300 ft. dry dock, enlarging machine shop, etc., incl. 100 hp. Diesel engine, at Bayou Vincent.

Elimination of Grade Crossing—Memphis, Tenn.—City, Nashville, Chattanooga & St. Louis Ry., H. McDonald, ch. engr., Nashville, Tenn., Illinois Central R.R., A. F. Blaess, ch. engr., 135 East 11th Pl., Chicago, Ill., and Louisville Nashville R.R., W. H. Courtenay, ch. engr., Louisville, Ky., plan grade elimination at Aulow Ave. $300,000.

Conveyor — Columbus, O. — Columbus Water Works Dept., City Hall, plans coal and ash conveyor for main pumping station, Dublin Pike, northwest of here. $25,000.

Electrical Equipment—Chicago, Ill.—See "Bridges."

Coke Screening and Storage—Fond du Lac, Wis.—Wisconsin Power & Light Co., F. Whitely, mgr., 15 North Main St., plans 3 story, 30 x 40 ft., concrete and steel, plain foundation. $25,000.

Streets Lighting System — West Allis, Wis.—A. L. Wichner, supt. Pub. Wks., plans ornamental street lighting system on National Ave. between 62nd and 68th Aves., incl. concrete posts, cables, etc. To exceed $25,000. Engineer not selected.

Crushing Plant, etc. — Callado (mail Lobo), **Tex.**—Micolithic Co., c/o A. F. Fisher, secy.-treas., 203 Cotton Exch. Bldg., Houston, having plans prepared 300 ton daily capacity crushing plant, with 1,200 ton daily capacity quarry plant, about 6 mi. from here. $200,000. Private plans. Noted Jan. 28.

Land Development—Corpus Christi, Tex.—Wright-Dinn & Allsion, 1204 McCullough St., San Antonio, soon take bids develop-

Unclassified (Continued)

ing 200 acre subdivision, incl. gas, paving, waterworks and sewer systems. $350,000. S. Ledison, Corpus Christi, engr.

Gas Pipe Line — Wichita Falls, Tex. — Lone Star Gas Co., making plans 230 mi. 18 in. gas pipe line from Wheeler Co. to Petrolia; also plans later 10 in. line from Petrolia to Wichita Falls. $2,500,000. Private plans.

Hydro-Electric Development—Aberdeen, Wash.—Election June 29, issuing $2,000,000 bonds, developing Wynooche Hydro-Electric Project. $2,000,000 to $5,000,000. W. J. Roberts, P. S. Bank Bldg., Tacoma, consult. engr.

Sand Plant — Marysville, Calif. — H. C. Maginn, 11th and K Sts., Sacramento, leased site and plans sand plant and equipment, on Yuba River, near here. $25,000.

Transmission Line—Manteca, Calif.—Pacific Gas & Electric Co., 245 Market St., San Francisco, making specifications 98 mi. single circuit transmission line from Manteca, San Joaquin Co. through foothills to Pacheco Pass, thence across Santa Clara Valley to Salinas, Monterey Co. $598,000. Eng. Dept. of Owners, engrs.

Fire Alarm System, etc. — Sacramento, Calif. — Plans election $257,000 bonds, central manually operated fire alarm system, firegongs, etc.; $80,000 bonds, 2 swimming pools; $24,000 bonds, 3 comfort stations in downtown section; $450,000 bonds purchasing lands and improving same for public park purposes; and $55,500 bonds, subway at H. St. levee crossing; and $17,500 bonds, flood control features of Brighton Subway. A. J. Wagner, city engr.

Transmission Line—Quebec—Duke-Price Power Co., Ltd., 56 St. Peter St., Quebec, plans 38 mi. 154,000 volt transmission line from Ile Maligne to Port Alfred.

Hydro Extension—Ontario—Ontario Hydro Comn., University Ave., Toronto, plans 12 mi. line from Burford to Scotland. $40,000. Private plans.

Swimming Pool—Sandwich, Ont.—A. J. Lothian, archt., 32 La Belle Bldg., Windsor, soon takes bids remodeling swimming pool at Assumption College, here, for Assumption College. $30,000.

Subway—Walkerville, Ont.—Town Council, A. E. Cook, clk., plans subway under Canadian National Ry. tracks.

Telephone Line — British Columbia — British Columbia Telephone Co., 768 Seymour St., Vancouver, plans telephone line from Vancouver to Kamloops, to Canadian Pacific Telegraph Co., 4 Hospital St. Engrs. est. $150,000.

Bids Desired

Bulkhead, Seawall, etc.—Portland, Me.—Pocahontas Fuel Co., Inc., 172 Commercial St., taking bids brick and concrete bulkhead seawall, storehouse and office building. To exceed $40,000. H. S. Adams, 1 Court St., Boston, Mass., engr.

Heating and Ventilating—Medford (br. Boston), **Mass.**—City taking bids heating and ventilating system in new Junior High School, Court St. $25,000. M. A. Dyer, 1 Beacon St., Boston, archt.

Subway—Brooklyn, N. Y.—June 11, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, 14th Street-Eastern Dist. line, from Cooper and Wyckoff Aves. to Stewart St., Route 8, Sect. 6-E-2, here.

Air Compress—Farmingdale, N. Y.—June 25, by President Bd. Trustees State Institute for Applied Agriculture on Long Island, air compressor, etc., for State Institute, here; adv. E. N.-R. June 3.

Station Finish Work—New York, N. Y.—June 7, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St. station finish work at Times Square Sta., of Rapid Transit R.R.

River Shafts—New York, N. Y.—June 8, by New York State Bridge & Tunnel Comn., and New Jersey Interstate Bridge & Tunnel Comn., Woolworth Bldg., completing interiors of New York River shafts of Holland Tunnel below level tunnel sidewalk, Contr. 11. G. R. Dyer, chn. former, and T. Boettger, chn. latter commissions.

Boilers, Stokers, etc. — Danville, Pa. — June 10, by Danville State Hospital, F. M. Sprout, secy., 4 boilers, traveling grate stokers and combustion control, ash grates, hoppers, operating mechanism, furnace archts., etc., in new power house. S. A. Jelette Co., 1200 Locust St., Phila., archts.

Subway—Phila., Pa.—June 23, by H. E. Ehlers, dir. Dept. City Transit, 1211 Chestnut St., special track work and appurtenances for Fern Rock Terminal Yard of Broad St. subway.

Land Development — Norfolk, Va. — Pennsytown Corp., Norfolk, want complete town built incl. houses, golf links, etc.; adv. E. N.-R. June 3.

Swimming Pool — Memphis, Tenn. — See "Buildings—Commercial."

Oil Refinery—Smackover, Ark.—See "Contracts Awarded."

Brick Kilns—D'Hanis, Tex.—See "Contracts Awarded."

Wharf-Cap-de-la-Madeleine, Que. — June 15, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., constructing extension to wharf, here. $65,000. Noted Jan. 21.

Bids Received

Heating, etc.—Buffalo, N. Y.—State Hospital Comn., Capitol, Albany, May 19, heating work, additional boiler capacity, etc., at Buffalo State Hospital, here, from English Constr. Co., 15 West 91st St., New York City, (1) $29,400 and (2) $27,400. Noted May 6.

Fill—Corona (Ind. sta. Flushing), **N. Y.** —Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., May 28, furnishing and placing fill in Corona Yards, Roosevelt Ave., here, from Welsh Bros. Contg. Co., 14 Queens St., Long Island City. $26,180. Noted May 20.

Sanitary Work, etc.—Kings Park, N. Y. —State Hospital Comn., Capitol, Albany, sanitary work, water lines, etc., at Kings Park State Hospital, here, from C. F. Mentzinger's Son, 354 Bway., Brooklyn, (1) $29,900 and (2) $20,500; exit facilities and fire stops, from M. Kantrowitz, 20½ Market St., Albany, (1) $88,000 (2) $69,000 and (3) $46,000; automatic fire sprinklers, from Industrial Automatic Sprinkler Co., 26 Cortland St., New York City, (1) $54,989 (2) $42,276 (3) $29,990 and (4) $15,198.

Tracking, etc.—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., installing tracks in portion Queensboro Subway line, from Slattery Eng. & Constr. Co., 10 East 43rd St., $31,191. Noted May 20.

Fire Alarm System, etc.—Utica, N. Y.—State Hospital Comn., Capitol, Albany, May 19, fire alarm system at Utica State Hospital, here, from Wheeler-Green Electric Co., 29 St. Paul St., Rochester, $24,904; exit facilities and fire stops, from C. V. Soule Co., 5 Oak St., Albany, (1) $13,925 (2) $10,925 and (3) $3,440; replacing electric wiring, from Johnson Electric Corp., 100 Genesee St., $10,665. Noted Apr. 29.

Entrance and Exit Plazas—Jersey City, N. J.—New York State Bridge & Tunnel Comn. and New Jersey Interstate Bridge & Tunnel Comn., Woolworth Bldg., New York City, May 24, constructing and curbing, sidewalks, granite block paving, etc. entrance and exit plazas, Contr. 26 of Holland Tunnel, here, from Leonard Paving Co., 233 Bway., New York City, $644,893. Noted May 20.

Contracts Awarded

Bleachers—New Bedford, Mass.—City, concrete bleachers in Ashley Park, to G. M. McCarthy, 9 Waverley St. Engrs. est. $25,000.

Signal System — Albany, N. Y. — Bd. Contr. & Supply, electrically controlled traffic signal system, to Alpha Electric Constr. Co., 124 Hudson Ave., $16,128.

Timber Piles, etc.—Albany, N. Y.—Albany Port Comn., 100 State St., timber piles and platform for bulkhead at Port of Albany, on Westerlo Island, to Great Lakes Dredge & Dock Co., 27 Lumber Dist., $319,220. Noted May 27.

Pier — Phila., Pa. — City, c/o G. F. Sproule, city dir., Municipal Pier 4, South Wharves foot Chestnut St., substructure for Pier 80, Jackson St., Moyamensing Group, Delaware River, to McLean Contg. Co., 1415 Fidelity Bldg., Baltimore, Md., $1,093,525. Noted May 6.

Underpass—Jackson, Miss.—City Council, underpass in Pascagoula St., to Illinois Central R.R. Co., 135 East 11th Pl., Chicago, Ill., $31,400.

Property Improvements—Cleveland, O.—Bd. Educ., F. Hogen, dir., East 6th St. and Rockwell Ave., improving property at Landon and McKinley Schools, incl. grading, sidewalks, masonry work and iron fencing, etc., to Vulcan Constr. Co., 5601 Bway., $32,000.

Culverts—Cherokee, Ia.—See "Bridges."

Culverts—Toledo, Ia.—See "Bridges."

Culverts — Webster City, Ia. — See "Bridges."

Dock—Duluth, Minn.—Clarkson Coal & Dock Co., 609 Garfield Ave., constructing 800 ft. concrete piers on sheet piling to replace wood dock, to Whitney Bros. Co., 909 Alworth Bldg. Engrs. est. $25,000.

Culverts — Russell, Kan. — See "Streets and Roads."

Culverts, etc.—Wyoming—See "Streets and Roads."

Oil Refinery, etc. — Smackover, Ark. — Simms Oil Co., Magnolia Bldg., Dallas, Tex., F. Gardener, ch. engr., will build modern oil refinery group to run 2,500 to 3,000 bbl. Smackover crude oil to gasoline, fuel and road oil, two 1,000 bbl. cracking units with pipe stills, boiler plants, etc., by day labor. F. Gardner, c/o owner, ch. engr.

Brick Kilns — D'Hanis, Tex. — D'Hanis Brick & Tile Co., D'Hanis and 710 Builders Exch. Bldg., San Antonio, will build 15 to 20 brick kilns, by day labor. $125,000 or more. Private plans.

Grain Elevator — Genessee, Idaho — Genessee Union Warehouse Co., 5 rein.-con. bins, 100 ft. high, with grain receiving pits, etc., to Alloway & George, Hutton Bldg., Spokane, Wash. $40,000.

Tunnel — Oakland, Calif. — East Bay Municipal Utility Dist., Ray Bldg., 1924 Bway., constructing Claremont tunnel, part of East Bay Aqueduct of Mokelumne River Project, to Grier & Mead, 480 Chetwood St., $1,374,374. Noted May 27.

Heating, etc. — London, Ont. — J. M. Moore, archt., 489 Richmond St., heating, plumbing and ventilating in new office building to Bennett & Wright, 81 King St., for London Life Insurance Co., 424 Wellington St. Archts. est. $80,000. Noted Apr. 29.

Foundation — Tillsonburg, Ont. — Regal Oil Corp., 704 Confederation Life Bldg., Toronto, concrete work for foundations of 14 houses, machinery and tanks, etc., to Orr & Clark, 121 Carlaw Ave., Toronto, $75,000. Noted Mar. 25 under "Buildings—Industrial."

Materials

Proposed Work

Paving Brick—McKeesport, Pa.—Plans to purchase approximately 1,000,000 paving brick. L. Savage, city engr.

Bids Desired

Cable—Boston, Mass.—June 9, by Supply Dept., lead covered cable, to Fire Dept. $4,000. F. L. Brier, supt.

Paving Blocks—Chicago, Ill.—June 8, by City, City Hall, 2,000 sq.yd. creosoted wood paving blocks. A. A. Sprague, comr.

Bids Received

Cables, etc.—Phila., Pa.—See "Waterworks."

Cables — Milwaukee, Wis. — Central Bd. Purchases, J. W. Nicholson, ch. buyer, May 24, 175,000 ft. steel-taped parkway and lead covered cables, from Boggis-Johnson Electric Co., 346 East Water St., $32,155. Noted May 20.

Refined Tar—Minneapolis, Minn.—F. S. Gram, city purch. agt., 150,000 gal. refined tar, from Barrett Co., 1 19th Ave. S., Spec. A $0.129 per gal.; Spec. B $0.113; Spec. C. $0.129; and Spec. D $0.169. Noted May 13.

Contracts Awarded

Road Oil—Hartford, Conn.—Bd. Contr. & Supply, 300,000 gal. 45% asphaltic base, and 16,000 gal 65% asphaltic base road oil, to Texas Co., Hartford, $22,625. Noted Apr. 29.

Timber Piles—Albany, N. Y.—Albany Port Dist. Comn., 100 State St., timber piles for bulkhead construction, to J. A. Maloney, 1170 Bway., New York City. Engrs. est. $100,000.

Castings — New York, N. Y. — J. Miller, pres. Manhattan Boro, Boro Hall, iron castings for Corporation Yards, here, to Campbell Fdry. Co., 313 Manor Ave., Harrison, N. J., $24,388. Noted May 20.

Road Oil — Lambertville, N. J. — City Comn., May 10, 12,000 gal. road oil to T. Tobish, Mechanic Bldg., Trenton, at $0.105 per gal.; and 500 tons stone, to Delaware River Quarry & Constr. Co., Lambertville, N. J., at $1.75 per ton. Noted May 6.

Rail Splice Bars, etc.—Phila., Pa.—H. E. Ehlers, dir. Dept. City Transit, 1211 Chestnut St., rail splice bars, bolts, nuts, locks and screw spikes, Contr. 123, for Broad St. Subway, to Bethlehem Steel Co., Bethlehem, $172,541. Noted May 27.

Road Oil — Madison, Wis. — W. R. Winckler, city clk., approximately 35,000 gal. asphaltic road oil, to Duro Asphaltic Products Co., 133 Washington St., Chicago, Ill. at $.0764 per gal. Noted May 6.

Road Oil—Wausau, Wis.—B. C. Gowen, city engr., 30,000 gal. road oil, to Amer. Tar Products Co., 208 South La Salle St., Chicago, Ill., at $0.113 per gal.; and 1 carload tarvia, to Barrett Co., 216 West Monroe St., Chicago, Ill., at $0.1946 per gal.

See proposal advertising on page 174

Constr. News page 357

Known the World Over As a Sound Investment

REG. U.S. Mack PAT. OFF.

For more than a quarter century Mack interests have been centered upon the manufacture of transport vehicles exclusively.

MACK TRUCKS, INC.
INTERNATIONAL MOTOR COMPANY
25 Broadway - New York City

One hundred and five direct MACK factory branches operate under the titles of: "MACK-INTERNATIONAL MOTOR TRUCK CORPORATION," "MACK MOTOR TRUCK COMPANY," and "MACK TRUCKS OF CANADA, LTD."

TRUCKS • BUSES • RAIL CARS • FIRE APPARATUS

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Club, Chicago, Ill., K. M. Vitsthum & Co., archts. soon takes bids, $4,500,000.

College, New York, N. Y., New York University soon takes bids, $3,000,000.

Reservoir, etc., New Britain, Conn., plans reservoir, enlarging dam, etc., $2,500,000.

Apartment, Chicago, Ill., Hooper & Janisch, Archts., soon takes bids $2,500,000.

Loft, New York, N. Y., Trinity Church Corp. having plans prepared, $2,500,000.

Office and lodge, Oakland, Calif., United Masonic Bldg. Assn. having preliminary plans prepared, $2,500,000.

Hotel and theater, Ft. Worth, Tex., J. H. Jones & Associates had plant prepared, $2,000,000.

Harbor Improvement, Hollywood, Fla., bond election June 10 for bonds, $2,000,000.

Sewers, Ft. Wayne, Ind., city making plans for sanitary sewers, $2,000,000.

Theater, store and office, Chicago, Ill., Z. E. Smith, Archt. soon takes bids, $2,000,000.

Synagogue and community center, Chicago, Ill., Temple Sholom Congregation, $1,600,000.

Hotel, Kansas City, Mo., Knickerbocker Hotel Co. having plans prepared, $1,600,000.

Sewer, Washington, D. C., Dist. Comrs. appropriated $1,185,000.

Theater, store, and office, Chicago, Ill., Z. E. Smith, Archt. soon takes bids, $1,250,000.

Pipe line, Texas, Humble Oil Co., Houston, Tex., having preliminary surveys made, $1,000,000.

Office, New York, N. Y., Fortieth Street and Park Avenue Corp. having plans prepared, $1,000,000.

Hotel, Mineral Wells, Tex., Crazy Well Hotel Co. having plans prepared, $1,000,000.

Temple, Ft. Worth, Tex., Masonic Temple Co. having plans prepared, $1,000,000.

Temple, Dallas, Tex., Masonic Temple Corp. plans building, $1,000,000.

Club, Ensenada, Calif., Interests represented by K. E. Preuss, et al, Los Angeles, having preliminary plans prepared, $1,000,000.

Bids Wanted

Apartment, Chicago, Ill., June 16 by Childs & Smith, Archts. for Baird & Warner, $2,000,000.

Contracts

Office and garage, Chicago, Ill., Building Construction Employers Assn. to J. Griffiths & Son Co., $4,000,000.

Hotel, Long Beach, N. Y., W. N. Reynolds to United Fireproofing Co., $2,500,000.

Terminal and office, Long Island City, N. Y., Pennsylvania R.R. Co. to Turner Constr. Co., $2,000,000.

Plant, Chicago, Ill., Graham, Anderson, Probst & White, Archts. to Bates & Rogers Constr. Co., $2,000,000.

Classified Index of Bids Wanted

Waterworks

Bids close — See Eng. News-Record

June 11 Long Island City, N. Y. ... June 3
June 14 Okeene, Okla. ... June 10
June 14 Maple Heights (Bedford P. O.), O. ... June 10
June 15 Spiro, Okla. ... June 3
June 15 Wheeling, W. Va. ... June 3
June 15 Dallas, Tex. ... June 10
June 15 Kenosha, Wis. ... June 10
June 15 Minneapolis, Minn. ... June 10
June 16 Newark, N. J. ... June 3
June 16 Chicago, Ill. ... June 10
June 16 Baltimore, Md ... June 10
June 16 Halfway, Mich. ... June 10
June 18 Hammonton, N. J. ... June 10
Adv. June 10.
June 19 Gulfport, Miss. ... June 3
June 21 Okmulgee, Okla. ... June 3
June 21 Los Angeles, Calif. ... June 10
June 24 St. Cloud, Minn. ... June 10
June 25 Williamson, W. Va. ... June 10
Adv. June 3 and 10.
June 28 Nordheim, Tex. ... June 10
June 29 Detroit, Mich. ... June 10
Adv. June 10.
June 30 Providence, R. I. ... June 10
Adv. June 10.

Sewers

June 12 Milwaukee, Wis. ... June 10
June 14 Lesueur Center, Minn. ... June 3
June 14 Mankato, Minn. ... June 10
June 14 Maple Heights (Bedford P. O.), O. ... June 10
June 14 Marinette, Wis. ... June 10
June 15 Syracuse, N. Y. ... June 3
Adv. June 3 and 10.
June 15 West Roxbury (Boston P. O.), Mass. ... June 10
June 16 Brooklyn, N. Y. ... June 10
June 16 Baltimore, Md. ... June 10
June 16 Boston, Mass. ... June 10
June 16 Cleveland, O. ... June 10
June 17 Glendale, Calif. ... June 10
June 18 Erie, Pa. ... June 10
Adv. June 10.
June 18 El Segundo, Calif. ... June 10
June 18 Brighton (Boston P. O.), Mass. ... June 10
June 21 West Roxbury (Boston P. O.), Mass. ... June 10
June 22 St. Louis, Mo. ... June 3
June 22 Kingsford, Mich. ... June 10
June 22 Erie, Pa. ... June 10
Adv. June 10.
June 22 Independence, Kan. ... June 10
June 23 Ithaca, Mich. ... June 10
June 25 Chattanooga, Tenn. ... June 10
Adv. June 10.
June 25 Erie, Pa. ... June 10
Adv. June 10.

Bids close — See Eng. News-Record

June 29 St. Louis, Mo. ... June 10
July 6 Lynn, Mass. ... June 3
Adv. June 3 and 10.

Waste Disposal

June 21 Woodlawn, Pa. ... June 3
June 21 Gary, Ind. ... June 10
Adv. June 10.
June 25 Louisville, Ky. ... June 3

Bridges

June 11 Ohio ... June 10
June 14 Huntington, W. Va. ... May 27
June 14 Michigan ... June 10
June 15 Mason City, Ia. ... June 10
June 15 Laurel, Md. ... June 10
Adv. June 10.
June 15 Lancaster, Mass. ... June 10
June 16 Conway, S. C. ... June 3
Adv. June 3 and 10.
June 17 Michigan ... June 10
June 18 Standish, Mich. ... June 3
June 18 Cincinnati, Ohio ... June 3
June 18 Pennsylvania ... June 10
June 18 Brooklyn, N. Y. ... June 10
June 18 Minnesota and Wisconsin ... June 10
June 21 Kentucky ... June 3
June 21 New Jersey ... June 3
Adv. June 3 and 10.
June 21 California ... June 10
June 21 Wayne, Neb. ... June 10
June 21 Ludington, Mich. ... June 10
Adv. June 10.
June 22 New York ... June 10
Adv. June 10.
June 24 North Adams, Mass. ... June 10
Adv. June 10.
June 25 Roanoke, Va. ... June 3
Adv. June 3 and 10.
June 28 Providence, R. I. ... June 10
Adv. June 10.
June 28 New Jersey ... June 10
Adv. June 10.
June 29 Manhattan, Kan. ... June 10
June 29 Bronxville, N. Y. ... June 10
Adv. June 10.
June 30 Racine, Wis. ... June 10
Adv. June 10.
July 1 Louisiana ... June 10
July 2 Los Angeles, Calif. ... June 10

Dams

June 30 Reading, Pa. ... June 10
Adv. June 10.

Excavation, Drainage, Irrigation, Levees, River and Harbor

June 15 Clewiston, Fla. ... May 27
June 15 St. Louis, Mo. ... May 13
June 17 Goderich, Ont. ... June 10

Bids close — See Eng. News-Record

June 21 West Palm Beach, Fla. ... June 3
Adv. June 3 and 10.
June 25 Port Burwell, Ont. ... June 10
June 29 Welland, Ont. ... June 10

Streets and Roads

June 11 Indianapolis, Ind. ... June 10
June 11 Dayton, Ohio ... June 3
June 11 New York ... June 3
Adv. May 27 to June 10.
June 11 Montague, Que. ... June 10
June 11 Ohio ... June 10
June 11 New Hampshire ... June 10
June 12 Waterloo, Ont. ... June 3
June 12 Lewisburg, W. Va. ... June 10
June 12 Gladstone, Man. ... June 10
June 12 Milwaukee, Wis. ... June 10
June 14 New Jersey ... June 3
Adv. June 3 and 10.
June 14 Southmont (Johnstown P. O.), Pa. ... June 3
June 14 Plymouth, Ind. ... June 3
June 14 Moundsville, W. Va. ... May 27
June 14 Marinette, Wis. ... June 10
June 14 Rockwall, Tex. ... June 10
June 14 Boston, Mass. ... June 10
June 14 Chicago, Ill. ... June 10
June 14 Oklahoma City, Okla. ... June 10
June 14 Michigan ... June 10
June 15 Woodville, Miss. ... May 27
June 15 Hillsboro, Tex. ... May 27
June 15 Gonzales, Tex. ... May 27
June 15 Marlin, Tex. ... May 27
June 15 Duluth, Minn. ... May 20
June 15 Louisiana ... May 20
June 15 Anderson, Ind. ... May 13
June 15 Alice, Tex. ... June 3
June 15 Washington ... June 3
June 15 Easton, Md. ... June 3
Adv. June 3 and 10.
June 15 New York ... June 3
Adv. May 27 to June 10.
June 15 Tampa, Fla. ... June 10
June 15 Maryland ... June 10
Adv. June 10.
June 15 Ft. Dodge, Ia. ... June 10
June 15 Des Moines, Ia. ... June 10
June 15 Louisville, Miss. ... June 10
June 15 Texas ... June 10
June 15 South Carolina ... June 10
June 15 Raymondville, Tex. ... June 10
June 15 Tampa, Fla. ... June 10
June 15 Wisconsin ... June 10
June 15 Edmonton, Alta. ... June 10
June 15 Maryland ... June 10
June 15 Avon, Ill. ... June 10
June 15 Gonzales, Tex. ... June 10
June 15 Coleman, Tex. ... June 10
June 15 Denver, Colo. ... June 10
June 15 Massachusetts ... June 10
June 16 Florida ... June 3

See proposal advertising on page 145

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Used by
City of Buffalo, N. Y. For Over 20 Years

Pipe gallery Buffalo's new filter plant; joints made with Leadite.

Buffalo is proud of its water works system.

It is proud of its new modern filter plant just completed and representing an investment of millions of dollars.

That is why the City of Buffalo wanted the Convention of the American Water Works Association to meet there this year, June 7th to 11th.

They wanted other water works men thruout the country to see what they have accomplished.

Buffalo has laid about 40 miles of c.i. bell and spigot water mains with Leadite.

They have tested and used Leadite for over 20 years.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%.

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

Visit Our Booth at the American Water Works Convention

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids close — *See Eng. News-Record*

June 16 Wildwood, N. J. .....May 27
Adv. May 27 to June 10.
June 16 Cresco, Ia. .....June 10
June 16 Alabama .....June 10
June 16 Quitman, Miss. .....June 10
June 16 Atlanta, Mich. .....June 10
June 16 Brooklyn, N. Y. .....June 10
June 16 Woodbury, N. J. .....June 10
Adv. June 10.
June 16 Boston, Mass. .....June 10
June 16 Cleveland, O. .....June 10
June 16 Baltimore, Md. .....June 10
June 16 New York, N. Y. .....June 10
June 16 St. George, N. Y. .....June 10
June 16 Paulsboro, N. J. .....June 10
June 16 Michigan .....June 10
June 16 Detroit, Mich. .....June 10
June 16 Muskegon, Mich. .....June 10
June 17 Cross Roads (Felton P. O.), Pa. .....May 27
Adv. May 27 and June 10.
June 17 Felton, Pa. .....May 27
Adv. May 27 and June 10.
June 17 New Brunswick, N. J. .....June 3
June 17 Flemington, N. J. .....June 3
June 17 New Brunswick, N. J. .....June 10
June 17 Wyandotte, Mich. .....June 10
June 17 Uniontown, Pa. .....June 10
June 18 Kansas City, Tex. .....June 3
June 18 Woodville, Miss. .....June 10
June 18 Roselle, N. J. .....June 10
Adv. June 10.
June 18 New York, N. Y. .....June 10
June 21 Kentucky .....June 3
June 21 Martinez, Calif. .....June 3
June 21 New Jersey .....June 3
Adv. June 3 and 10.
June 21 Pittsburg, Tex. .....June 10
June 21 Los Angeles, Calif. .....June 10
June 21 California .....June 10
June 21 Alturas, Calif. .....June 10
June 21 Oakland, Calif. .....June 10
June 21 New Mexico .....June 10
June 21 Los Angeles, Calif. .....June 10
June 21 Akron, O. .....June 10
June 22 Duluth, Minn. .....May 20
June 22 Pennsylvania .....June 3
Adv. June 3 and 10.
June 22 Mt. Pleasant, Tex. .....June 10
June 22 Columbus, O. .....June 10
June 22 Indiana .....June 10
June 22 Hollister, Mass. .....June 10
June 22 Independence, Kan. .....June 10
June 23 Pennsylvania .....June 3
Adv. June 3 and 10.
June 23 Delaware .....June 3
June 23 North Adams, Mass. .....June 10
Adv. June 10.
June 23 Glenville, W. Va. .....June 10
June 25 Mound City, Kan. .....June 10
June 25 Ft. Wayne, Ind. .....June 10
June 28 Kentucky .....June 3
June 28 New Jersey .....June 10
Adv. June 10.
June 29 Louisiana .....June 10
June 29 North Carolina .....June 10
Adv. June 10.
July 6 Morgantown, W. Va. .....June 3
July 7 Vero Beach, Fla. .....June 3
Adv. June 3 and 10.

Buildings—Commercial

June 11 Toms River, N. J. .....May 27
June 11 Cleveland, O. .....June 10
June 14 New York, N. Y. .....Apr. 29
June 14 San Luis Obispo, Calif. .....May 27
June 14 Akron, O. .....June 10
June 14 Detroit, Mich. .....June 10
June 15 Memphis, Tenn. .....June 3
June 15 Madison, Wis. .....June 10
June 15 Phila., Pa. .....June 10
June 15 Pine Bluff, Ark. .....June 10
June 16 Chicago, Ill. .....June 10
June 16 Cleveland, O. .....June 10
June 17 Charlotte, N. C. .....June 3
June 17 Barnstable, Mass. .....June 10
June 20 Seattle, Wash. .....June 10
June 22 St. Louis, Mo. .....June 3
June 30 Pittsburg, Kan. .....June 10
July 1 Texarkana, Tex. .....Apr. 22
July 6 Riverside, Calif. .....June 10

Bids close — *See Eng. News-Record*

July 7 Sullivan, Ind. .....June 3
July 12 Charleston, W. Va. .....June 10
Adv. June 10.
Sept. 1 Vancouver, B. C. .....Apr. 22

Buildings—Industrial

June 11 Cleveland, O. .....June 11
June 12 Laurelton, Pa. .....June 3
June 29 St. Louis, Mo. .....June 10

Buildings—Educational, Religious

June 11 Wildwood, N. J. .....June 3
June 12 Urbana, Ill. .....May 27
June 14 Little Rock, Ark. .....June 3
June 14 Phila., Pa. .....June 10
June 14 Scranton, Pa. .....June 10
June 15 Lincoln, Neb. .....June 3
June 15 Cleveland, O. .....May 27
June 15 Cleveland Heights (Warrensville P. O.), Ohio .....June 3
June 15 Superior, Wis. .....June 10
June 16 Seattle, Wash. .....June 10
June 17 Clinton, Ia. .....June 10
June 18 Alma, Mich. .....June 10
June 22 Rocky River, O. .....June 3
June 29 Wanakena, N. Y. .....June 10
June 29 Chicago, Ill. .....June 10
July 1 Newburgh, N. Y. .....June 10
July 2 Morgantown, W. Va. .....June 10

Federal Government Work

June 11 Remodeling—Plattsburg, N. Y. .....May 27
June 11 Lumber, etc.—Wash., D. C. June 3
June 12 Docking Caissons—Huntington, W. Va. .....May 20
June 14 Hangar—Wash., D. C. .....May 20
June 14 Hulls, etc.—Louisville, Ky. .....May 20
Adv. May 20 to June 10.
June 14 Roadways—Baltimore, Md. June 3
June 15 Barn, etc. — St. Cloud, Minn. .....May 20
June 15 Road—Colorado .....June 10
June 16 Houses—Pittsburgh, Pa. .....May 20
Adv. May 20 to June 10.
June 16 Roads—Great Lake (br. Waukegan), Ill. .....June 3
June 16 Road—Norfolk, Va. .....June 10
June 16 Water Tank—Lakehurst, N. J. .....June 10
June 16 Roads—Colorado .....June 10
June 17 Boilers, etc.—Winona, Minn. .....May 27
Adv. June 3 and 10.
June 18 Houses—Pittsburgh, Pa. .....May 27
Adv. May 27 to June 10.
June 18 Remodeling—Yakima, Wash. .....June 3
June 18 Plumbing, etc.—St. Louis, Mo. .....June 3
June 21 Hospital, etc.—Palo Alto, Calif. .....May 6
June 21 Water System — Ft. Warren, Mass. .....May 27
June 21 Dam—Pittsburgh, Pa. .....May 27
Adv. May 27 to June 10.
June 21 Administration, etc.—Dayton, Ohio .....May 27
Adv. May 27 to June 10.
June 21 Extension—Orlando, Fla. .....June 3
June 21 Foundations — Dayton, Ohio .....June 3
Adv. June 3 and 10.
June 21 Remodeling—Morgantown, W. Va. .....June 10
June 22 Dredging—Chicago, Ill. .....May 27
Adv. May 27 to June 10.
June 22 Roads and Walks—Rutland Heights, Mass. .....June 3
June 22 Road—Livermore, Calif. .....June 3
June 22 Water Tank—Dayton, O. .....June 3
Adv. June 3 and 10.
June 22 Engines, etc.—St. Louis, Mo. .....June 3
Adv. June 3 and 10.
June 22 Equipment—Hot Springs, Ark. .....June 3
June 22 Plumbing—Norfolk, Va. .....June 10
June 22 Remodeling—Ann Arbor, Mich. .....June 10

Bids close — *See Eng. News-Record*

June 23 Hulls—St. Louis, Mo. .....June 3
June 23 House—Pittsburgh, Pa. .....June 3
Adv. May 27 to June 10.
June 23 Dikes—Matson, Mo. .....June 10
June 23 Acetylene Flashers—St. George, N. Y. .....June 10
June 23 Boiler, etc.—Streator, Ill. June 10
Adv. June 3 and 10.
June 24 Dredging—Miami, Fla. .....June 3
Adv. May 27 to June 10.
June 25 Extension—Rome, N. Y. .....June 10
June 28 Kitchen, etc.—Livermore, Calif. .....May 27
June 28 Dredging—New York, N. Y. .....June 3
Adv. June 3 and 10.
June 28 Breakwater — Milwaukee, Wis. .....June 3
Adv. June 3 and 10.
June 28 Lookouts, etc.—Hamilton, O. .....June 10
Adv. June 10.
June 29 Dredging — Wilmington, Del. .....June 3
Adv. June 3 and 10.
June 29 Lock House—Huntington, W. Va. .....June 3
Adv. June 3 and 10.
June 30 Revetment—Kansas City, Mo. .....June 10
July 1 Engines, etc.—Wash., D. C. June 10
Adv. June 10.
July 1 Pier—Charleston, S. C. .....June 10
Adv. June 10.
July 1 Remodeling—Cumberland, Md. .....June 10
July 2 Dredging — New Haven, Conn. .....June 3
Adv. June 3 and 10.
July 9 Hull—Memphis, Tenn. .....June 10
Adv. June 10.
July 7 Motors, etc.—Wash., D. C. May 13
July 12 Rock Removal—Newark, N. J. .....June 10
Adv. June 10.
July 12 Tailrace, etc.—Nebraska-Wyoming .....June 10
Adv. June 10.
July 15 Dredging—Hawaii .....May 13
July 27 Hospital — Northport, N. Y. .....June 10

Unclassified

June 11 Subway — Brooklyn, N. Y. .....June 3
June 14 Heating System—Boston, Mass. .....June 10
June 15 Tow Boat—Albany, N. Y. June 10
June 15 Wharf—Cap-de-la-Madeleine, Que. .....June 3
June 15 Causeway—Miami, Fla. .....June 10
June 16 Subway—Phila., Pa. .....May 27
June 16 Sanitary Work, etc.—Utica, N. Y. .....May 27
June 17 Lighting System—Chicago, Ill. .....June 10
June 21 Ferryboats—New York, N. Y. .....June 10
June 22 Bulkhead—New Bedford, Mass. .....June 10
Adv. June 10.
June 22 Heating and Ventilating System—Foxboro, Mass. .....June 10
June 23 Subway—Phila., Pa. .....June 3
June 25 Air Compressor—Farmingdale, N. Y. .....June 3
Sept. 30 Crane Gantries, etc.—Otahulu, New Zealand .....May 20

Materials

June 15 Frogs, Switches, etc.—Phila., Pa. .....June 10
June 15 Reinforcing Bars—Mason City, Ia. .....June 10
June 16 Piles—Los Angeles, Calif. .....June 10
June 16 Lumber, etc.—New York, N. Y. .....June 10
June 29 Gravel—Louisiana .....June 10
June 29 Cement, etc.—New Orleans, La. .....June 10

News of New Work

Waterworks

Proposed Work

Conn., New Britain — Plans reservoir, enlarging dam, gate house, piping, etc. $2,500,000. J. Williams, City Hall, engr.

N. J., Livingston—Twp. Com., Livingston Ave., received no bids June 3, for 16,500 lin.ft. 10 in. c.i. mains in Livingston Ave. Will readvertise.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, rejected bids May 25, two 50 ton steel cars, Contr. 819. Noted June 3.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

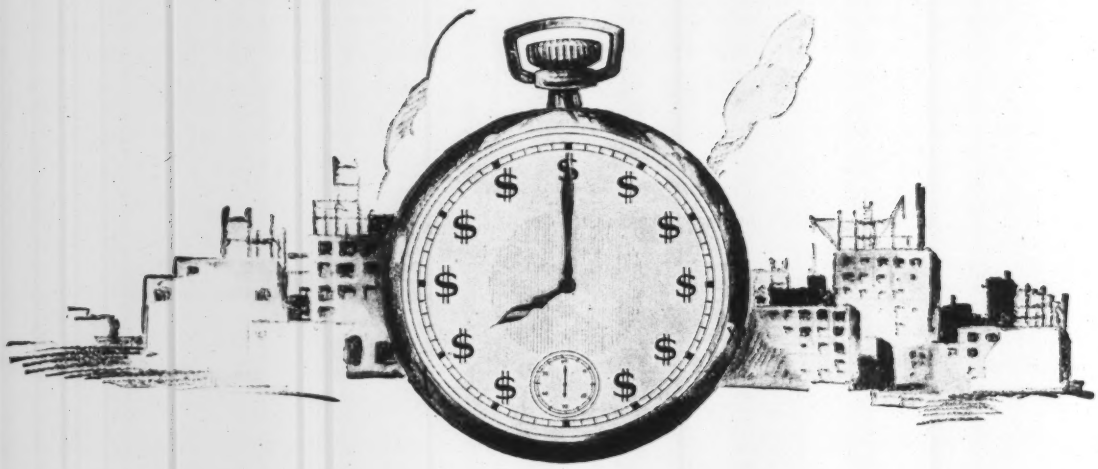
Ga., Rome — Election June 24, $70,000 bonds, waterworks and $20,000 bonds, parks and playgrounds. Noted Jan. 21.

Fla., Sarasota Heights — Election June 22, $100,000 bonds, waterworks.

Ky., Louisville—Louisville Water Co., 435 South 3rd St., soon takes bids 40 m.g. daily capacity turbo-centrifugal pump, also making plans filtration plant addition. Alvord, Burdick & Howson, 6 South Dearborn St., Chicago, Ill., engrs.

Ind., Indianapolis — Indianapolis Water Co., 113 Monument Circle, making plans new 7 m.g. centrifugal pump, Washington St. Sta. M. Mabee, c/o owner, engr.

Constr. News page 360



When Time Is Money

When *time* means money in construction, delays are costly. Each day saved in concrete work means a corresponding saving in cash.

On such rush jobs, you do not want to wait the weeks usually required for concrete to gain the desired strength. You do not need to.

By using what an editorial in *Engineering News-Record* calls "well-authenticated" methods and standard *Universal* cement, the same quality *Universal* regularly used, you can secure *strong* concrete in *3 days* and at the same time get a concrete that is much better and much stronger forever after than concrete as ordinarily placed.

Copies of the *Engineering News-Record* editorial on "High Early Strength Concrete," together with detailed information on the methods for obtaining this *time*-saving, *strong* concrete in *3 days*, with standard *Universal* cement, on all jobs where *time* means money, will be sent promptly upon request. Simply send the coupon below.

Universal Portland Cement Co.
210 South LaSalle Street, Chicago.
Please send me details on how to obtain *strong* concrete in *3 days* with standard *Universal* cement.
Name .....
Address .....
.....

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Waterworks (Continued)

Mich., Detroit — Water Dept. making plans 710 ft. c.i. mains in Manning Ave., 700 ft. Rossini Dr., 840 ft. Dexter Ave., 1,300 ft. Norwood Ave., 2,800 ft. Minnock Ave., 400 ft. Marshall Ave., 380 ft. Major Ave., 430 ft. Fordale Ave., 660 ft. Alcoy Ave., 1,340 ft. Fairport Ave., 660 ft. Pilkey Ave., and 925 ft. St. Patrick Ave.; all foregoing 6 in. pipe; 1,620 ft. alley between State Fair Ave. and Bringard Dr., 660 ft. Hickory Ave., 410 ft. Lang Ave., 3,150 ft. Rouge Dr., 520 ft. Grinnell Ave., 710 ft. Beatrice Ave., 400 ft. Vernor Highway, 1,350 State Fair Ave., 1,320 ft. Joann Ave., 500 ft. Grove Ave., 1,340 ft. Westphalia Ave., and 1,340 ft. Goulburn Ave.; all foregoing 8 in. pipe; 675 ft. State Fair Ave. and 2,260 ft. Marseilles Ave., both 12 in. pipe. G. Fenkell, 176 East Jefferson Ave., genl. mgr.

Ill., Glencoe—Making plans intake pumping station and 3 m.g. daily capacity filtration plant. $300,000. Alvord, Burdick & Howson, 6 South Dearborn St., Chicago, engrs.

Ia., Atlantic—Making preliminary plans 150,000 gal. capacity tank on tower.

Neb., McCook — Election soon $100,000 bonds, waterworks.

N. D., Mandan — Plans constructing 1 m.g. steel instead of proposed rein.-con. reservoir. $30,000. Noted Apr. 1.

Tex., Beaumont—Magnolia Petroleum Co. making preliminary plans constructing own mains to city intake. $50,000. Private plans.

Tex., Childress — Voted $35,000 bonds, extending mains, etc., in various streets. Address City Comn. Noted May 13.

Tex., Corpus Christi—See "Unclassified."

Tex., Edinburg—Plans extending water mains in various streets and light plant extensions. $35,000. Address City Engineer.

Tex., Edinburg—See "Buildings—Industrial."

Tex., Galveston—Election June 29, $200,000 bonds extending mains in various streets. C. A. Holt, Jr., city engr.

Tex., New Boston — Making preliminary plans waterworks, mains, etc. $25,000. Address Mayor.

Tex., West — Making preliminary plans improving waterworks, etc. $12,000. Address Mayor.

Idaho, Montpelier—Making preliminary plans waterworks. $15,000. Burns & McDonnell Eng. Co., 402 Interstate Bldg., Kansas City, Mo., engrs.

Wash., Buckley—F. Wenke, mayor, plans 4 mi. pipe line to carry water from Prairie Creek. $42,000.

Calif., Orange—Defeated $125,000 bonds, improving water system. Noted May 20.

Calif., Riverside — Making plans 42 in. rein.-con. pipe line, 12 m.g. reservoir, 30 in. steel pipe line connecting existing mains. To exceed $350,000. A. P. Campbell, city engr.

Calif., San Francisco—Making plans extending high pressure water system in southern section. $65,000. M. M. O'Shaughnessy, city engr.

Que., Sherbrooke — Town Council plans watermains and sewers from Dinning property to city limits, also on Victoria St. $40,000. M. Bradley, c/o Council, engr.

Bids Desired

Mass., Lynn—City, Com. Ways & Drainage, taking bids 1 story brick pumping station and appurtenances. $200,000 bonds. Morris Knowles, 507 Westinghouse Bldg., Pittsburgh, Pa., archts. Noted Apr. 22.

Mass., Worcester—M. J. Whittal Assn., Brussels St., taking bids 2 story and basement, 30 x 105 ft. water storage plant, rein.-con. and brick, Brussels St. $40,000 or more. J. D. Leland & Co., 41 Mt. Vernon St., Boston, archts.

R. I., Providence — June 30, at office Water Supply Bd., City Hall, Neutaconkanut Reservoir, concrete, in Johnson. F. E. Winsor, 661 Westminster St., ch. engr.; adv. E. N.-R. June 10.

N. J., Hammonton — June 18, by Bd. Water Comrs., 4,239 lin.ft. 6 in. main extensions; adv. E. N.-R. June 10. Noted June 3.

Md., Baltimore—June 16, by Bd. Awards, valves and hydrants for Bureau Water Supply. V. B. Siems, City Hall, water engr.

W. Va., Williamson—June 25, at office L. P. Ward, city clk., waterworks improvements, incl. Contr. A, filtration plant, pumps, etc., and Contr. B, extensions to distribution system, etc. Burgess & Niple, 223 East Broad St., Columbus, O., engrs.; adv. E. N.-R. June 10. Noted Apr. 8.

O., Cleveland—June 16, by Comrs. Cuyahoga Co., 23,000 ft. 6 in. c.i. mains in Lake Rd., Impvt. 1054. F. Williams, Court House, engr.

O., Maple Heights (Bedford P. O.) — June 14, by Village, c.i. mains in Corkhill Rd., Reddington, Fernway, Homewood and Otis Aves. C. W. Courtney, 1770 East 11th St., Cleveland, engr.

Mich., Detroit—June 29, by Bd. Water Comrs., East Jefferson Ave., constructing tunnels and suction connections at Water Works Park. G. H. Fenkell, genl. mgr.; adv. E. N.-R. June 10.

Mich., Halfway—June 16, by Village, 20 mi. 6 and 8 in. mains in various streets. H. R. Omara, village engr.

Wis., Kenosha—June 15, by C. M. Osborn, city mgr., 64 tons 16 in. Class B water pipe.

Minn., Minneapolis—June 15, by F. S. Gram, city purch. agt., 688 tons 24 in. Class "B" c.i. pipe. N. W. Elsberg, city engr.

Minn., St. Cloud—June 24, by J. D. McKenzie, city clk., constructing 3,600,000 gal. filtration plant, and 750,000 gal. concrete reservoir. $60,000. Noted Apr. 22.

Tex., Dallas — June 15, by Dalton & Parker, engrs., Wilson Bldg., entire water system for Broadmoor, incl. pipe connection to Dallas mains, for Water Dist. 9, V. W. Greenwade, 745 South Maryland. $110,000.

Tex., Nordheim—June 28, by City, waterworks improvements, incl. one 80 ft. per min. air compressor and motor, one 125 g.p.m. service pump direct connected to motor, one 50,000 gal. elevated steel tank erected, 10,320 lin.ft. 2- to 8-in. c.i. pipe, etc. $40,000. Terrell Bartlett Engineers, c/o Calcasieu Bldg., San Antonio, engrs.

Okla., Okeene—June 14, by S. C. Fox, city clk., extending 8,350 ft. 2- to 6-in. c.i. mains in various streets. $15,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Calif., Glendale—See "Sewers."

Calif., Los Angeles—June 21, by Supervs. Los Angeles Co., improving Water Works Dist. 9, near Compton, Spec. 742, steel tank, 100,000 gal. capacity; Spec. 745, pumphouse, derrick and tank cleaning bed; Spec. 744, water distributing system complete with service connections; and Spec. 740, furnishing Class "B" c.i. pipe in 12 ft. lengths.

Bids Received

Mass., Lakeville—Commonwealth of Massachusetts, Dept. Pub. Wks., Boston, pumping station for Lakeville Sanatorium, at Clear Pond, from F. A. Mazzur Co., 141 Milk St., Boston, $19,940. Engrs. est. $25,000.

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, June 1, steel and c.i. mains in Ocean Parkway, Church and Gravesend Aves., here, from Penstock Constr. Co., Sharon, Pa., $451,644. Noted May 27.

O., Cleveland—Bd. Comrs. Cuyahoga Co., May 26, 12,000 ft. 6- to 24-in. mains in Clifton Blvd. and Sloane Ave., Impvt. 655, from D. Lowensohn, 8810 Woodland Ave., cast iron $151,720, and steel $158,740. Noted May 26.

Contracts Awarded

New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, water supply conduit, strengthening existing conduit, etc., of Brooklyn water supply, in Kings and Queens Counties, to Triest Contg. Co., 250 Park Ave., New York City, $584,580. Noted June 3.

N. J., Trenton—City Comn., 1 m.g. and 2 m.g. pumps for Princeton Ave. Station, to W. R. Throop & Sons, East State St., $10,454; 3 m.g. pump and machinery for Pennington Ave. Pumping Station, to C. P. Bainbridge, Hamilton Sq., $8,026 and $2,741 respectively. Grand total $21,221. Noted June 3.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, 50,000 lb. piglead, Contr. 813, to N. Trotter, 36 North Front St., $3,985; electric cable, Contr. 820, to Standard Underground Cable Co., North Amer. Bldg., $1,685; Contr. 816, to P. B. Hyatt Co., 5 South 18th St., $6,092. Grand total $11,762. Noted June 3.

O., Cincinnati — Comrs. Hamilton Co., constructing Water Supply Line 20, Dist. 3, to Metzel & O'Hearn, 1601 Madison Ave., Covington, Ky., $23,246. Engrs. est. $27,604. Noted May 20.

O., Portsmouth—Bd. Control, constructing intake pier, to Universal Contg. Co., Portsmouth, for Water Works Dept. $51,510.

Mich., Bloomfield (mail Akron)—Hubbell, Hartgering & Roth, Engrs., 2640 Buhl Bldg., Detroit, 34,000 ft. 6- to 10-in. c.i. mains, etc. in various streets, to W. Hoy, 210 Hawthorne Bldg., Redford, $63,107, for Judson Broadway Co. Noted May 13.

Mich., Detroit—Fire Dept., 105 tons 16 in c.i. pipe, to U. S. Cast Iron Pipe & Fdry Co., Burlington, N. J., at $54 per ton. Noted May 20.

Mich., Wayne—Michigan Investment Co., 9,060 ft. 6 in. c.i. distribution system, to G. A. Gessner, Inc., Wayne, $19,645. Noted May 13.

Ill., Calumet Park (mail Chicago)—Village, c.i. watermains and sewers in various streets, to P. Kruse, 3041 Edgewood Ave. Archts. est. $50,000.

Tex., Port Arthur—J. C. Hamilton, city clk., one 10,000 h.p.m., low service and one 2,100 g.p.m. high service motor driven pumps, to Dayton-Dowd Co., Quincy, Ill., $5,000. Noted Apr. 30.

Calif., Santa Ana — For 8,100 ft. 8 in. Class "B" bell and spigot sand-cast pipe, to U. S. Cast Iron Pipe & Fdry. Co., Wright-Callender Bldg., Los Angeles, $1.1547 per ft.

Sewers

Proposed Work

D. C., Wash.—Dist. Comrs., Dist. Bldg., plans sewers in various streets. $1,185,000 appropriated.

Fla., Sarasota Heights — Election June 22, $130,000 bonds, sewers in various streets.

Ind., Ft. Wayne — Making plans sewers in various streets. $2,000,000. G. B. Gascoigne, Leader News Bldg., Cleveland, O., engr.

Mich., Spring Lake — City takes bids about June 30, complete sewerage system. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, Ill., engrs.

Ia., Council Bluffs—Making preliminary plans 14,083 ft. 6- to 18-in. sewers, etc. in 2nd Ave., Hall, Lee, 35th, 37th, Prospect and Harrison Sts. B. Walker, City Hall, engr.

Minn., Buhl—Making plans sewage disposal plant. $40,000. H. W. Russwig, c/o H. M. Anna Ore Mining Co., Buhl, engr.

Ark., Little Rock — Plans sanitary and storm sewers in Sewer Impvt. Dist. 104, incl. reconstructing old Town Branch, etc. $210,000-$485,000. Ford & MacCrea, 215 Gazette Bldg., engrs. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, Ill., consult. engrs.

Tex., Childress — Voted $100,000 bonds, extending sewers in various streets. Address City Comn.

Tex., Corpus Christi—See "Unclassified."

Tex., Cross Plains — Plans sewerage system and disposal plant. $40,000. Koch & Fowler, Central Bank Bldg., Dallas, engrs.

Tex., Galveston—Election June 29, $300,000, storm drainage in filled area. C. A. Holt, Jr., city engr.

Tex., Haskell—Douglass & Mitchell Corp., engrs., 409 Perkins Snider Bldg., making revised plans and soon take bids extending sewers in various streets and disposal plant. $65,000. Former bids rejected. Noted May 13.

Tex., Port Arthur—Making preliminary plans drainage system. $40,000. W. O. Bower, Port Arthur, engr.

Tex., Waco — Election soon $225,000 bonds, sewage disposal plant, sanitary sewers, etc. in various streets. V. G. Koch, city engr.

Tex., Wichita Falls—State Bd. Control, Austin, c/o H. H. Harrington, chn., and Montgomery & Ward, engrs., 545 Harvey-Snider Bldg., soon takes bids approximately 3 mi. sewer line from Wichita Falls State Hospital connecting with city line. $25,000. Noted Apr. 15.

Calif., Carmel—Made plans filter bed unit increasing septic tank capacity serving 2,500 in place of 1,200 as at present. H. D. Severance, Monterey, engr.

Calif., Fullerton—Defeated $62,500 bonds, outfall sewer extension. Noted Apr. 29.

Calif., Long Beach—City Council takes bids about June 24, 7,079 ft. 10- to 15-in. cement and 3,852 ft. 18- to 36-in. rein.-con. drains, etc., in Willmington Blvd., etc. $40,000. R. D. Van Alstine, City Hall, engr.

Calif., Orange—Voted $59,000 bonds, extending ocean outfall sewer. Noted Apr. 29.

Calif., Sacramento—Plans election $976,400 bonds, new sewer extensions and pump equipment, etc. A. J. Wagner, city engr.

Calif., Santa Ana—Made estimates Ocean outfall sewer with screening plant equipment, $379,000; and treatment plant, $710,000. N. H. Neff, city engr. Burns-McDonnell-Smith Eng. Co., Rives-Strong Bldg., Los Angeles, engrs.

Calif., Yuba City — Making new plans 70,000 lin.ft. 6- to 16-in. concrete sewer in various streets. Former contract rescinded. Noted Apr. 15.

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ROTATING BEDPLATE

THE entire upper machinery of an INDUSTRIAL crawling tractor rests on a single, massive, cast steel rotating bedplate strongly reinforced with ribs. This one-piece base is a guarantee of satisfactory operation because it retains all of the machinery in perfect alignment under all conditions, thus preventing bent shafts, undue wear on gears, and sticking clutches. A heavy structural steel frame extension on the bedplate gives ample floor area.

The revolving bedplate turns on four bronze-bushed steel rollers, mounted on the steel bedplate and running free on stationary shafts. These rollers are accurately turned to proper conical shape to avoid any slipping as the crane revolves. They bear on a combined roller path and external slewing rack and may be quickly and directly removed without jacking up the revolving frame. Any play between the rotating bedplate and the roller path is conveniently adjusted through the center pin nut.

The upper machinery frames are bolted to, and supported directly and entirely by this massive steel bedplate, forming the most rigid and reliable construction possible—another reason why INDUSTRIALS excel.

For the whole story of the INDUSTRIAL *crawling tractor crane, shovel and dragline, write for Book 120-A.*

INDUSTRIAL WORKS · BAY CITY · MICHIGAN

Sewers (Continued)

Que., Sherbrooke—See "Waterworks."

Ont., Port Colborne—Making plans disposal plant and vitr. clay lateral and service sewers in various streets. $300,000-$500,000. A. W. Connor & Co., Metropolitan Bldg., Toronto, engrs. Noted May 6.

Bids Desired

Mass., Boston—June 15, by Dept. Pub. Wks., sewerage works in Goldsmith Brook, private land, Pond and Rockwood Sts. in West Roxbury; June 16, in Allpeton St. and Public Alley 554, city proper. $25,000. J. H. Sullivan, comr.

Mass., Brighton (Boston P. O.) — June 18, by Dept. Pub. Wks., Boston, sewerage works in Morris St. and Brighton Rd., here; and June 21, in Maple St., West Roxbury. $25,000. J. H. Sullivan, comr.

N. Y., Brooklyn — June 16, by J. A. Guider, pres. Brooklyn Boro, Boro Hall, storm water and sanitary sewers in East 5th St.

Pa., Erie—June 18, by City Council, extending East Side Sanitary Sewer, Sect. 1. A. N. Aitken, city engr.; adv. E. N.-R. June 10.

Pa., Erie—June 22, by City Council, extending West Side Sanitary Sewer, Sect. 1. A. N. Aitken, city engr.; adv. E. N.-R. June 10.

Pa., Erie—June 25, by City Council, extending West Side Sanitary Sewer, Sect. 2. A. N. Aitken, city engr.; adv. E. N.-R. June 10.

Tenn., Chattanooga—June 25, by E. D. Bass, comr. Dept. Streets & Sewers, City Hall, trunk sewers and sub-mains for 13th Ward; adv., E. N.-R. June 10.

Md., Baltimore—June 16, by Bd. Awards, 8,925 lin.ft. 8- to 18-in. vitr. sewers and 2,975 lin.ft. 4 and 6 in. underdrain, etc., in Sewer Dists. J-7 and J-8, embraced in Sanitary Contr. 233. M. J. Ruark, 311 Courtland St., sewerage engr.

O., Cleveland—June 16, by Comrs. Cuyahoga Co., sewer in Broadview and Brookpark Rds., Impvt. 75A. $100,000. Former bids rejected. F. Williams, Court House, engr.

O., Maple Heights (Bedford P. O.)—June 14, by Village, sewers in Benhoff Dr., Reddington, Fernway and Homewood Aves., McCracken and Libby Rds. To exceed $25,000. C. W. Courtney, 1770 East 11th St., Cleveland, engr.

Mich., Detroit—June 18, by Dept. Pub. Wks., brick or concrete sewer 19,361 lin.ft. in Waltham Ave. Arm, Ashland Ave. Sewer; in Seven Mile Rd. Arm, Sect. 1, Ashland Ave. Sewer; Sherwood-Savage Arm Sewer; Cadieux Rd. Sewer, Sects. 5 and 4; and Pembroke Ave. Arm West, Sect. 2. P. A. Fellows, city engr.

Mich., Ithaca—June 23, by J. W. Young, drain comr. Gratiot Co., at North Star Twp., for Drain 119.

Mich., Kingsford — June 22, by S. W. Seiler, village clk., sewers in various streets, Contrs. 3, 4 and 5; adv. E. N.-R. June 10.

Wis., Marinette—June 14, by S. O'Shea, city clk., 750 lin.ft. 36 in. brick or segmental block sewers in Marinette Ave. To exceed $25,000. A. L. Hillis, City Hall, engr.

Wis., Milwaukee — June 12, by J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., sewage booster station, Fairmount Ave., Whitefish Bay. Former bids rejected. T. C. Hatton, c/o owner, engr. Noted May 20.

Wis., Milwaukee — June 12, by J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., extending 10,700 ft. special concrete sewer Sect. 1 main sewer in Grand Ave. T. C. Hatton, c/o owner, engr.

Minn., Mankato — June 14, by F. W. Bates, city clk., constructing approximately 20,000 ft. 6- to 24-in. sanitary sewers in Lower System, $42,000; and approximately 30,000 ft. 6- to 30-in. in Upper System, $80,000. P. F. Comstock, city engr.

Mo., St. Louis — June 29, by Bd. Pub. Serv., 208 City Hall, Sect. J, River Des Peres, incl. flood-way channel along River Des Peres between point near Gravois Ave. and point beginning Sect. A near Wellington Court and Leamington Ave., approximately 40 ft. bottom and 100 ft. top width, 20 ft. deep, etc. $173,000. W. W. Horner, 300 City Hall, engr.

Mo., St. Louis—June 29 (extended date), by Bd. Pub. Serv., 208 City Hall, 12,070 ft. 8 in. to 9.5 ft. vitr. clay, segmental block, brick and rein.-con. sewers in East Rock Creek Joint Sewer Dist., $290,000; and 1,365 ft. 10- to 18-in. vitr. clay sewers in Glaise Creek Dist. 25, $5,600. W. W. Horner, 300 City Hall, engr. Noted May 13.

Tex., Panhandle — City, c/o W. P. Stephen, secy., taking bids disposal plant, and 61,635 lin.ft. 6- to 15-in. sewers, etc. in various streets. $220,000. Devlin Eng. Co., Amarillo, engr. Noted May 20.

Calif., El Segundo — June 18, by City Trustees, 6- to 10-in. vitr. sewer, etc., in Collingwood St., Walnut Ave., etc. To exceed $25,000. R. D. Hutchins, city engr.

Calif., Glendale—June 17, by Trustees, 6 in. vitr. main sewers, and c.i. watermains, etc., in Chevy Chase Dr., Adams St., etc., Sewer Dist. 5. J. F. Johannsen, city engr. Noted June 3.

Bids Received

N. Y., New York — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers, etc. in Rhinelander and Hobart Aves. from F. Gabrielle, 2750 Creston Ave., $14,250 and $5,285 respectively; East 234th St., from F. Spadaro, 3883 Paddington Ave., $8,910; and Riverdale Ave., from Anita Constr. Co., 2975 Marion Ave., $52,825. Noted May 27.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, May 26, from Pencioli, 4103 Roosevelt Blvd., branch sewer in Beldon and Shissler Sts., $13,766; from F. di Pasquale, 1215 South 7th St., 74th Ave., $18,-536; from V. S. Campellone, 812 West Venango Ave., Courtland St. $5,495, National St. $2,247, St. Vincent St. $12,184, and Yocum St. $3,923; from McIntyre Constr. Co., 6811 North Franklin St., Spencer St., $30,574; from J. Lombardi, Lincoln Bldg., Tudor St., $21,561; from J. J. McHugh, 1617 Race St., Bensalem Ave. E. S., $12,646; and from F. T. Buckins, Jr., 4050 Kensington Ave., Gowen Ave. $19,392. Noted May 20.

O., Cincinnati—Director Pub. Serv., May 17, 24 in. vitr. clay sewer and 460 ft. 33 in., 1,170 ft. 36 in., 326 ft. 51 in. brick trunk sewer in ravine north of Foley Rd., from J. J. Welling, 2943 Lischer Ave., $23,503. Engrs. est. $26,700. Noted May 13.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., June 1, from H. O. Schafer & Sons, 1149 East Mason St., Green Bay, rein.-con. or vitr. sewers in 8th Ave. $2,714, Euclid Ave. $2,049, 51st St. $797, and Maple Ave. $923; from Shabart-Rauch, Inc., 1003 41st St., Pryor Ave. $1,205; from W. T. Werner, 675 Hi Mount Blvd., Sarnows Subdivision $615, and 60th St. $45,776; from Rausch & Busse, 918 44th St., Wells St. $30,398; and from G. Zimmermann, 3402 Grand Ave., Becker St. $289, and relaying sewers in Jackson St. $5,177.

Wis., Milwaukee—J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., constructing sewage booster station, Fairmount Ave., from Kroening Constr. Co., 39th Ave. and Mitchell St., $19,289. Noted May 20.

Calif., Los Angeles—Bd. Pub. Wks., May 17, 9,615 ft. 6 in. rein.-con. sewer in Fairfax Ave., from J. Tomai, 559 Madison Ave., Culver City, $49,759.

Calif., San Diego—Common Council, May 24, from B. Noble, Spreckels Bldg., sewer in Normal Heights, 35,281 lin.ft. 6 in. concrete pipe, $1.10 per lin.ft., 50,251 lin.ft. 8 in. concrete pipe, $1.18 1,048 lin.ft. 10 in. concrete pipe, $1.28, etc., total $132,456. Noted Apr. 1.

Contracts Awarded

R. I., Providence — To A. Aiello, 107 Westminster St., sewerage works in Glen Rd. $2,107, Upton Ave. $2,054, Eaton Ave. $3,859, and Touro St. $3,149; to A. Gonnelli, 454 Admiral St., in Bernard St. $16,-096; to W. Gammino, and in Lancaster St. $94,016, and Nelson St. $15,105; to J. Ambrose, and in Sampson Ave. $2,979; to F. W. Cristy, 945 Park Ave., in Rushmore Ave. $10,062. Grand total $149,427.

Md., Baltimore—Constructing Presstman St. Diversion Drain, Storm Water Contr. 97, to Carozza-Rowe Constr. Co., 624 North Gilmor St., $479,972. Noted May 13.

Md., Baltimore—Bd. Awards, 17,740 ft. 6- to 16-in. vitr. sewer known as Maidens Choice Trunk Run Sewer, Sect. 2, Dist. G-2, Sanitary Contr. 227, to Adams & Marino Co., Old Town Natl. Bank Bldg., Baltimore, $70,935. Noted May 27.

Tenn., Murfreesboro—Vitr. clay sewerage system to G. B. Howard & Co., Ft. Shelby Ave., Nashville, $216,382. Noted May 13.

O., Cincinnati—Hamilton Co., for Sanitary Sewer 16, Dist. 1, 10,041 ft. 6- to 10-in. vitr. clay pipe, to Murdock Constr. Co., 4701 Main Ave., Norwood, $28,815. Engrs. est. $31,644.

O., Cleveland—Bd. Comrs. Cuyahoga Co., 3,800 ft. 8- to 48-in. rein.-con. sewer in Lander Rd., Impvt. 310, to Salem & George, Erie Bldg., $32,302. Noted Apr. 22.

O., Columbus — W. H. Duffy, dir. Pub. Serv., 2,100 ft. 30 in., 1,300 ft. 24 in. relief sewer in Newton St., to B. Canini, 1898 Cleveland Ave., $40,246; also 2,000 ft. 30 in. and 750 ft. 24 in. sanitary sewer in Milford Ave., to J. Conie, Columbus, $31,-680.

Mich., Detroit—Dept. Pub. Wks., 4,207 ft. sewer in Jefferson Ave. and on city property to Detroit River, to Nash Bros., 10 South LaSalle St., Chicago, Ill., $306,918; 1,111 ft. 15- to 20-in. sewer in Lateral 4566, to J. Leo, 1782 Puritan Ave., $6,975; Lateral 4590, to S. Ramose, 516 Transpartation Bldg., $12,800; and 616 ft. 18- to 20-in. in Lateral 4592, to Dept. Pub. Wks., $3,100. Grand total $329,793. Noted June 3.

Mich., Muskegon—E. R. Cockerill, supt. Muskegon Co. Drains, 3,342 ft. 18- to 24-in. vitr. clay and 2,044 ft. 96 in. monolithic concrete pipe in Ruddiman Creek Drain, to Wolverine Eng. Co., Mason, $99,684. Engrs. est. $120,000. Noted June 3.

Ill., Calumet Park (mail Chicago)—See "Waterworks."

Minn., St. Paul—A. E. Eggert, city purch. agt., Trout Brook Sewerage System, Contr. A, to Northern States Contg. Co., 312 Endicott Bldg., $473,700, and Highland Park Sewerage System, to O'Neil & Preston, 608 Exch. Bank Bldg., $142,000. Noted May 20.

Neb., Omaha — J. P. Hector, city clk., rein.-con. and concrete sewer in Dist. 883, to Redd & Tomasso, 2560 Mary St., $22,-500; and in Dist. 983, to G. Carlson, 4665 Pierce St., $5,707.

Tex., Ft. Worth—To Southwell & Abbott, 605 East 2nd St., sanitary sewers at Seminary Hill $21,896, in section Samuels Ave., Washington Heights $80,847, in section Haynes Ave. $21,648, and storm sewers on Barton, Himount and Tremont Aves. $31,996. Grand total $156,387. Noted June 3.

Okla., Oklahoma City—M. Peshek, Jr., city clk., Canadian River sewage plant, and 8,200 ft. 54 in. segmental block sewers, etc., to Green-Boardman Co., Maple St., $639,-167. Engrs. est. $729,000. Noted Apr. 22.

Wash., Ferndale—City Council, sewage disposal plant and 6,720 ft. 8- to 12-in. clay sewers, etc., in various streets, to W. C. Adams, Renton, $25,096.

Calif., Los Angeles—Bd. Pub. Wks., sanitary sewer in Hobart Blvd. between Florence Ave. and 79th St., to M. N. Guho, 5316 8th Ave., $75,560. Noted May 27.

Ont., Toronto—York Twp., 3,800 ft. 12- to 54-in. vitr. tile and concrete trunk sewer in Fairbank Dist., to Nelson River Constr. Co., Bank of Hamilton Bldg., $57,128. Engrs. est. $60,000.

Waste Disposal

Bids Desired

Ind., Gary—June 21, by Bd. Pub. Wks., M. Maloney, clk., constructing and equipping garbage and refuse incinerator. W. P. Cottingham, city engr.; adv. E. N.-R. June 10.

Bids Received

N. Y., New Dorp (Sta. Staten Island) — J. A. Lynch, pres. Richmond Boro, Boro Hall, St. George, building and runway furnaces, chimney, etc., for garbage incinerator, here, from Nye Odorless Crematory Co., Georgia Casualty Bldg., Mulberry St., Macon, Ga., $191,250, alternate $157,650. Noted May 27.

Bridges

Proposed Work

Mass., Lynn—City, Highway Dept., City Hall, plans reconstruction East Saugus Bridge, probably concrete. $25,000 or more. Engineer not selected.

Alabama and Mississippi — See "Railways."

O., Cincinnati—Hamilton Co. plans two span 90 ft. concrete slab bridge, Winton Rd. $25,115. E. A. Gast, Court House, engr.

O., Cincinnati—Hamilton Co. plans 3 span 135 ft. concrete slab bridge, Willey Rd. $31,762. E. A. Gast, Court House, engr.

Michigan—A. M. Hopperstead, Crystal Falls, resident engr., takes bids about June 20, 90 ft. concrete girder bridge, crossing West Bridge Baltimore River, Ontonogan Co.

Kan., Columbus — See "Streets and Roads."

Texas and Mexico—P. D. Anderson & H. E. DuPuy, Presidio, Tex., making preliminary plans 186 ft. concrete and steel bridge across Rio Grande River between Presidio, Tex. and Ojinaga, Mexico. $75,000. Private plans.

Tex., Batesville — See "Streets and Roads."

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Bridges (Continued)

Tex., El Paso—El Paso Electric Co. and El Paso & Juarez Traction Co., making plans vehicular and foot bridge at or near South Santa Fe R.R. tracks. $30,000. Private plans.

Tex., La Grange — See "Streets and Roads."

Tex., New Braunfels—Comal Co. making plans and soon take bids 4 span, 350 ft. rein.-con. bridge across Comal River. $60,000. J. G. Morgan, c/o State Highway Dept., Austin, engr.

Tex., Sweetwater—See "Streets and Roads."

Okla., Orlando—State Hy. Dept., Oklahoma City, plans 46 ft. concrete underpass on State Highway 4, under Santa Fe R.R. tracks, here. $26,000. J. M. Page, Oklahoma City, highway engr.

Calif., Fullerton—Defeated $30,000 bonds, constructing 3 bridges in various sections. Noted Apr. 29.

Ont., Leaside — East York Twp. takes bids in August 1,400 ft. highway bridge, 130 ft. high, 44 ft. roadway, 7 steel or concrete arches and concrete approaches over Don Valley between East York Twp. and here. $1,000,000. East York Twp. appropriates $200,000, Leaside Village $150,000, York Co. $150,000, city of Toronto $200,000, Province of Ontario $125,000, York Land Co. $150,000, Canadian Pacific & Canadian National Rys. $50,000, ratepayers and grade separation fund $50,000 toward cost. Contract for diamond drilling and boring site, to Smith & Travers, Sudbury, Ont. F. Barber, 45 Jarvis St., Toronto, engr.

Bids Desired

New Hampshire — See "Streets and Roads."

Mass., Lancaster—June 15, by Dept. Pub. Wks., Boston, concrete bridge and bituminous macadam approaches, here. $25,000. W. F. Williams, comr.

Mass., North Adams—June 24, by E. R. Doble, comr. Pub. Wks., reconstructing Brown St. Bridge. G. S. Thompson, 257 Bway., Troy, consult. engr.; adv. E. N.-R. June 10.

R. I., Providence—June 28, by Bd. Contr. & Supply, in Clerk of Committee Dept., City Hall, renewing draw span, raising and widening approach spans of Point Street Bridge over Providence River. E. D. Miller, city clk.; adv. E. N.-R. June 10.

New York—June 22, by B. Glassbrook, clk. Bd. Supervs. Warren Co., Lake George, 5 bridges, etc., in Bolton and Hague, Contr. 3; and 3 bridges in Chester, Contr. 4; adv. E. N.-R. June 10.

N. Y., Bronxville — June 29, at office Westchester Park Comn., 72 Pondfield Rd., 7 stone and rein.-con. bridges on Hutchinson River Parkway, in Mt. Vernon, Pelham and North Pelham; also grading and paving Rumsey Rd. Sect. Sawmill River Parkway, Yonkers. J. Downer, ch. engr.; adv. E. N.-R. June 10.

N. Y., Brooklyn—June 18, by A. Goldman, comr. Plant & Structures, Municipal Bldg., New York City, new center pier fender at Metropolitan Ave. Bridge over English Kills, here.

New Jersey — June 28, by State Hy. Comn., Trenton, concrete bridge across Lupatcong Creek, Route 4, Sect. 34, on Keyport Cutoff. A. L. Grover, secy.; adv. E. N.-R. June 10.

Pennsylvania—June 18, by Montgomery Smith, purch. agt. Pennsylvania R.R. Co., at 17th and Filbert Sts., Phila., structural metal work for Bridges, with Specifications Plans 80276, 80308 and 13165. A. C. Shand, Broad St. Sta., Phila., ch. engr. railroad.

Pa., Uniontown — See "Streets and Roads."

Md., Laurel — June 15, by Dept. Pub. Wks., Baltimore, 86 ft. span rein.-con. arch bridge over Patuxent River, on Baltimore-Washington Blvd., here, Contr. P-63, Prince Georges Co. J. N. Mackall, chn.; adv. E. N.-R. June 10.

Miss., Quitman—See "Streets and Roads."

Louisiana—July 1, by Louisiana State Hy. Comn., Baton Rouge, Leathermann Creek Bridge, on Arcadia Homer Highway, Federal Aid Project 85-D, Claiborne Parish. W. B. Robert, Reymond Bldg., Baton Rouge, highway engr.

Ohio—June 11, by G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, constructing bridges on various roads in Adams, Allen, Brown, Carroll, Champaign, Mahoning, Miami, Monroe, Muskingum, Perry and Pike Counties. $260,999.

Mich., Ludington—June 21, at office D. Thompson, city clk., 5 span rein.-con. continuous girder bridge over bayou of Pere Marquette Lake, Washington Ave. C. S. Whitney, 214 Mason St., Milwaukee, Wis., consult. engr.; adv. E. N.-R. June 10.

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Michigan — June 14, by R. A. Beers, resident engr. Kalamazoo, Bridge 030,801, two 35 ft. rein.-con. deck girder spans, Allegan Co.

Mich., Muskegon — See "Streets and Roads."

Wisconsin — See "Minnesota and Wisconsin."

Wis., Racine — June 30, by Dept. Pub. Wks., H. A. Nelson, comr., bridge over Root River, at Main St. J. W. Beaugrand, city engr. Strauss Bascule Bridge Co., 307 North Michigan Ave., Chicago, Ill., consult. engrs.; adv. E. N.-R. June 10.

Ia., Mason City — June 15, at office Auditor Cerro Gordo Co., one 50 x 16 ft. pony truss, one 32 x 18 ft. deck girder, one 40 x 18 ft. and one 32 x 18 ft. I-beam bridges, and one 118 x 24 ft. cantilever bridge. R. E. Robertson, Mason City, co. engr.

Minnesota and Wisconsin—June 18, by R. C. Buck, engr., 15-16 U. S. Natl. Bank Bldg., Superior, Wis., constructing steel superstructure 3,600 ft. bascule span bridge, 32 ft. over St. Louis River, between Duluth, Minn. and Arrowhead Bridge Co., Superior, Wis.

Kan., Independence—June 22 (extended date), by L. Kelly, clk. Montgomery Co., one 120 ft. and three 100 ft. span concrete arch bridge, 1,075 ft. wooden piling, etc., on Federal Aid Project 199-C. H. K. Hibbard, co. engr. Noted Jan. 14.

Kan., Manhattan—June 29, by City Clerk, two 35 ft. and one 75 ft. span steel girder bridge, on Federal Aid Project 327-B, 1,512 ft. wooden piling, etc. A. J. Rhodes, Manhattan, co. engr.

Neb., Wayne—June 21, by Comrs. Wayne Co., 50 ft. steel, 50 ft. steel girder, and 30 ft. I-beam span bridges. C. W. Reynolds, co. clk.

Tex., Mt. Pleasant — See "Streets and Roads."

Tex., New Braunfels — Comal Co., C. Roeper, judge, taking bids rein.-con. bridge over Comal River and underpass across International-Great Northern Ry. tracks, on Highway 64. $60,000. J. G. Morgan, New Braunfels, resident engr.

Tex., Pittsburg — See "Streets and Roads."

New Mexico—See "Streets and Roads."

California—June 21, by State Hy. Comn., Sacramento, three 30 ft. span rein.-con. girder bridge over San Jose Creek. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., Los Angeles—July 2, by Bd. Pub. Wks., 687 ft. concrete and steel viaduct with 56 ft. roadway, etc. over Los Angeles River, at Riverside Dr. and Dayton Ave. M. Butler, city bridge engr.

Bids Received

Massachusetts—Commonwealth of Massachusetts, Dept. Pub. Wks., June 1, 4 concrete bridges in Westminster and Winchester, from A. M. Loud, 42 Brook St., Wollaston, $61,058. Noted May 20.

Mass., Cambridge (Boston P. O.)—Harvard University, granite limestone and brick, memorial foot bridge over Charles River connecting Harvard University and Harvard Business School (Brighton), from T. Stuart & Son, 22 Pearl St., Boston, $194,845. Noted May 20.

Miss., Satartia—Yazoo Co., c/o H. Griffin, clk., Yazoo City, 986 ft. toll bridge over Yazoo River, from Austin Bros. Bridge Co., Mickleberry St., Atlanta, Ga., $100,000.

Louisiana — State Hy. Comn., Baton Rouge, May 27, Bayou Boeuff Bridge, on Houma-Morgan City Highway, Federal Aid Project 155-B, Assumption Parish, from Vincennes Bridge Co., Vincennes, Ind., combination (1) $128,803 (2) $128,585. Noted Apr. 29.

Michigan—H. C. Fleming, resident engr., Grand Rapids, takes bids about June 17, F. R. 7 Bridge 013,001, 4 spans, over Pere Marquette R.R. tracks, Ottawa Co.

Tex., Palestine—Anderson Co., 34 span, 1.09 mi. rein.-con. girder and steel span bridge across Trinity River, from Thomas & Ratliff, Rogers, concrete approaches $182,379, and earth graded approaches $26,869; from Austin Bridge Co., 1813 Clarence St., Dallas, timber approaches $159,128. Noted Apr. 29.

California—State Hy. Comn., Sacramento, May 24, rein.-con. girder bridge over Santa Ana River, Orange Co., from deWaard & Son, Granger Bldg., San Diego, $94,945.

Calif., Los Angeles—Bd. Pub. Wks., May 26, from Western States Constr. Co., 1337 3rd St., Santa Monica, 402 ft. rein.-con. girder bridge over Los Angeles River, on Fletcher Dr., rein.-steel (lump sum) $41,662, 6,546 cu.yd. "A" concrete $19.40 per yd., and 634 cu.yd. "C" concrete $15.50, etc., total $238,473. Noted May 6.

Contracts Awarded

New Hampshire — See "Streets and Roads."

Vermont—State Hy. Dept., Montpelier, 3 span concrete bridge in Charleston, to Atwood Thomas Constr. Co., Middleboro, Mass., $16,323; 3 span concrete bridge in Derby, to Rowe Constr. Co., Woodsville, N. H., $37,182; steel bridge in Hartland, to Earl & Merry, Rutland, $23,902; and steel bridge in Berlin, to Byron, Forman & Riggs, Troy, N. Y., $21,976. Grand total $[illegible]

R. I., Centerville — State, State House, Providence, 1 span, 80 ft. concrete arch bridge, here, to L. E. McLaughlin, Inc., Jefferson Ave., New London, Conn., $45,500.

Pa., Coraopolis — Controller Allegheny Co., Court House, Pittsburgh, transferring present 6th St. spans, Pittsburgh, and placing same over Ohio River, here, to Foundation Co., Fulton Bldg., Pittsburgh, $315,000. Noted May 6.

Pa., Phila. — Delaware River Bridge Joint Comn., Widener Bldg., metal work, Contr. 24-B, to G. B. Clapp, 3717 Filbert St., $11,744; equipment for operation, Contr. N-29-A, to Mazzola & Marano, 739 South 7th St., $15,500; and plumbing, etc., Contr. 29-B, to Bulman Bros., 5th and Cumberland Sts., $7,984. Grand total $35,278.

North Carolina—State Hy. Comn., Raleigh, rein.-con. bridges, etc., on Project 669, Rowan Co., to J. L. Brinkley, Thomasville, $38,131; on Project 398, Robeson Co., to Kiker & Yount, Reidsville, $43,350; and on Project 165, Northampton Co., to W. D. Dean, Commercial Bank Bldg., Raleigh, $41,596. Grand total $123,077. Noted May 20.

Alabama—State Hy. Comn., Montgomery, (**e. e. means engineers estimate**), several concrete bridges on Aliceville-Dancy Rd., Pickens Co., to Dame & McConnell, Livingston, $18,842, e. e. $20,000; on Franklin-Monroeville Rd., Monroe Co., to Lamb & McLemore, Eutaw, $84,160, e. e. $90,000; on Tuskegee-Union Springs Rd., Macon Co., to E. Pettus, Montgomery, $27,925, e. e. $28,000; on Athens-Decatur Rd., Limestone Co., to McWorther & Gilbert, Alabama Power Co. Bldg., Birmingham, $33,935, e. e. $35,000. Grand total $164,862.

Ky., Paducah—City Council, rein.-con. bridge over Island Creek, to J. M. Rouse, Paducah, $28,000. Noted Apr. 22.

Ohio—Dept. Highways & Pub. Wks., Columbus, one bridge and 2 culverts, Sect. "D" Bellefontaine-Lima Rd., and 4 bridges and 2 culverts, Sect. "D" Bellefontaine-Kenton Rd., both Logan Co., to C. C. Carpenter, Ada, $6,544 and $13,754 respectively; concrete girder bridge, Sect. "H" Zanesville-New Lexington Rd., Perry Co., to Merry & Miler, Caldwell, $5,479, several bridges, Sect. "C" Milford-Hillsboro Rd., Clermont Co., to Craig & Jorgan, Blanchester, $5,289; 2 bridges and 2 culverts, Sect. "C" Bellefontaine-Kenton Rd., Logan Co., to Chamberlain & Baine, North Lewisburg, $2,810; 3 bridges Sect. "A" Lakeview-Kenton Rd., Logan Co., to Ideal Constr. Co., Upper Sandusky, $6,911; concrete bridges, Sect. "M" Pomeroy-Marietta Rd., Meigs Co., to F. H. Beckler, Athens, $16,050; and 2 concrete bridges, Sect. "A" Lima-Sandusky Rd., Sandusky Co., to Modern Constr. Co., Fremont, $23,648. Grand total $80,485. Noted May 6.

Mich., Grand Rapids—For 1,460 ft. rein.-con. viaduct, 56 ft. over Pere Marquette, Pennsylvania & Michigan Central Ry. tracks, to Folwell, Ashlog Co., 323 North Michigan Ave., Chicago, Ill.

Ia., Montezuma — Poweshiek Co., 4 I-beam and 1 pony truss bridges, also 23 culverts, to Iowa Bridge Co., 19th St. and Easton Blvd., Des Moines, $35,700.

Ia., Orange City — See "Streets and Roads."

Ia., Sioux City—See "Streets and Roads."

Ia., Vinton — Benton Co., to E. Evans, Vinton, 15 culverts, on Federal Aid Project 251, $10,730; to A. Olson Constr. Co., Waterloo, 1 pony truss bridge and 19 culverts and extensions on same project, $21,070; to J. B. Elliott, Independence, 8 box culverts on Federal Aid Project 263, $3,984, 11 box culverts on Federal Aid Project 285 $5,000, and 2 box culverts on Primary Bridge Project 318 $985; to Fairfield Constr. Co., Waterloo, 1 box culvert on same project $3,585; and to M. O. Burnett, Marengo, 28 culverts and extensions on Federal Aid Project 278, $9,998. Grand total $55,352. Noted Apr. 22.

Kan., Alma—See "Streets and Roads."

Tex., Henderson — See "Streets and Roads."

Tex., Palestine—Anderson Co. (Palestine) and Cherokee Co. (Rusk), creosoted timber trestle bridge on 0.91 mi. Highway 43-A, State Aid Project 665, over Neches River, to Thomas & Ratliff, Rogers, $49.000. Noted Feb. 25.

California—See "Streets and Roads."

Ont., Leaside—See "Proposed Work."

Dams

Bids Desired

Pa., Reading—June 30, by City Council, concrete impounding dam on Maiden Creek, Berks Co., Contr. 40. A. R. O'Reilly, 209 City Hall, ch. engr.; adv. E. N.-R. June 10.

Wis., Tomahawk — See "Contracts Awarded."

Contracts Awarded

Wis., Tomahawk — Wisconsin Valley Impvt. Co., 1st Natl. Bank Bldg., Wausau, will build 260 ft. concrete and earth dam, 20 ft. head on Willow River, 21 mi. northwest of here, by day labor. Noted Feb. 11.

Railways

Proposed Work

Alabama and Mississippi—Muscle Shoals, Birmingham & Pensacola R.R. Co., c/o St. Louis-San Francisco R.R. Co., Frisco Bldg., St. Louis, Mo., F. G. Jonah, ch. engr., takes bids in late summer (1st unit) 152 mi. standard gauge, rock ballasted, 85 lb. rail of railroad line with passing tracks, sidings, culverts, bridges, etc., from Kimbrough, Ala. to Aberdeen, Miss.

Contracts Awarded

Alabama—Muscle Shoals, Birmingham & Pensacola R.R. Co., c/o St. Louis & San Francisco R.R. Co., Frisco Bldg., St. Louis, Mo., F. G. Jonah, ch. engr., relocating track to eliminate heavy grades and curves on 7.61 mi. (2 sections) at Boggy Creek and Turpentine Hill, and laying 85 lb. rails, here, to Reed & Lowe, Birmingham. Engrs. est. about $150,000. Noted Apr. 29.

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Massachusetts — Commonwealth of Massachusetts, Dept. Pub. Wks., Boston, plans dredging in Barnstabel, Cotuit Harbor, Lewis Bay, West Bay, Braintree, Weymouth Fore River, Dennis and Nobscusset Breakwater. $25,000. W. F. Williams comr.

N. C., Wilmington—J. G. Wright & Son plan extensive development near Wrightsville Beach, requiring large fills.

Fla., Hollywood—Election June 10, $2,000,000 bonds, improving harbor.

Bids Desired

Ont., Goderich — June 17, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, reconstructing 1,087 ft. river breakwater. $125,000.

Ont., Port Burwell — June 25, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, reconstructing outer end East Pier, here. $48,500.

Ont., Welland — June 29, by J. W. Pugsley, secy. Dept. Railways & Canals, Ottawa, constructing Sect. 4B, Welland Ship Canal, here.

Bids Received

Massachusetts—Dept. Pub. Wks., Boston, May 27, dredging 17,000 cu.yd. material in Gloucester Harbor, from Bay State Dredging & Constr. Co., 62 Condor St., East Boston, $21,435.

N. Y., New York—State Hospital Comn., Capitol, Albany, June 2, excavation for New York State Psychiatric Institute, here, from Clementi Contg. Co., 1191 Spofford Ave., $170,000. Noted May 20.

Neb., Omaha — Papio Valley D.D. 2, Douglas Co., 1,053,700 cu.yd. drainage work, from Callahan-Walker Constr. Co., 1106 1st Natl. Bank Bldg., Omaha, at $0.0524 per cu.yd. Noted Feb. 18.

Contracts Awarded

N. Y., Albany — T. F. Farrell, comr. Canals & Waterways, stone breakwater, etc., at Sylvan Beach, Erie Canal Sect. 5, Contr. 233, to J. W. Holler, Inc., Fort Edward, $149,910. Engrs. est. $188,605. Noted May 13.

Ia., Onawa — Monona Co., Oliver Lake D. D., ⅓ mi. open ditch, 201,623 cu.yd. excav., to F. Grundon, Ft. Dodge, $25,098. Noted May 27.

Ia., Sioux City—See "Streets and Roads."

Mo., New Madrid — Morgan Eng. Co., Court House, enlarging 34 drainage canals, approximately 2,790,000 cu.yd. excav., etc. to F. M. Crane Co., 210 South 24th St., Omaha, Neb., for D. D. 38, New Madrid Co. Noted June 3.

Streets and Roads

Proposed Work

Mass., Boston — Plans reconstructing Bway. from Teele Sq. to Arlington line. To exceed $25,000. Private plans.

N. Y., Albany — Common Council plans repaving South Allen St., New Scotland and Austain Aves. J. G. Brennan, city engr.

N. J., Livingston—Livingston Twp. plans concrete paving 2 mi. Roseland Ave. $201,303. W. A. Stickel, Newark, engr.

N. J., Newton—Sussex Co., June 1, concrete paving approximately 12,923 sq.yd. Ross's Corner-Sussex Rd., Sect. 1-A, Franklin Twp., from S. B. Martin, Sussex, $54,395. Noted May 20.

N. J., Roseland—Bd. Freeholders Essex Co. (Newark), plans concrete paving 1.75 mi. Eagle Rock Ave., here. $160,000. W. A. Stickel, Newark, engr.

N. J., South Amboy — Common Council plans paving Augusta St.; and concrete curbing and sidewalks 2nd and John Sts. $25,300. J. A. Conlogue, South Amboy, engr.

N. J., Summit — Road Com. Union Co., Court House, Elizabeth, June 1, grading and rein.-con. paving 21,985 sq.yd. Morris Ave., here, from C. H. Winans, 207 Broad St., Elizabeth, $173,079. Noted May 27.

N. J., Trenton—Bd. Freeholders Mercer Co. soon takes bids paving Trenton-Pennington Rd. $500,000. H. F. Harris, Trenton, engr.

N. C., Elizabeth City — Pasquotank Co. plans sand clay or gravel road between South Mills and Old Trap. S. G. Scott, Elizabeth City, chn. highway comn.

Fla., Tampa—Hillsborough Co. election June 22, $85,000 bonds, asphalt on 6 in. limerock surfacing Road 5, in John T. Gunn Highway at Lake Fern Sta., running west, 16 ft.

Fla., Tampa—Plans widening vitr. brick on 8-in. rock paving, etc. Willow Ave. from Grand Central to Main St., $116,680; also vitr. brick and asphalt block on rock or shell paving, etc. Bay Side Dr. and portion Frances Ave., $31,474. R. D. Marton, City Hall, engr.

Fla., West Palm Beach—Palm Beach Co. election June 24, $163,000 bonds, oiled rock surfacing Project 1-"I," Chosen, Bird Island, Tory Island to Kraemer Pass Rd.; $217,000 bonds, concrete paving or other hard surfacing Project 1-"H," Military Trail, Boca Raton Rd., $170,000 bonds, Project 1-"G," Military Trail, Delray Rd., $331,000 bonds, Project 1-"F," Military Trail, Boynton Rd., $279,000 bonds, Project 1-"E," Military Trail-Lauland Rd., $740,000 bonds, Project 1-"D," Military Trail-Lakeworth-Ocean Blvd. Rd., $3,212,000 bonds, Project 1-"A," Military Trail, $180,000 bonds, Project 1-"B," Military Trail-Jupiter Rd., $169,600 bonds, Project 1-"C," Military Trail-Kelsey City-Riviera Rd., and $3,030,000 bonds, Project 2-"A," Ocean Blvd.

La., Arcadia — Bienville Parish voted $68,500 bonds graveling various roads in Dist. 6, $20,000 bonds in Dist. 8, and $100,000 bonds in Dist. 11.

Tennessee — Dept. Hys. & Pub. Wks., Nashville, making surveys improving 20 mi. road from Kenton to Union City, Obion Co. C. N. Bass, comr.

Tenn., Erin — Houston Co. and State Dept. Highways & Pub. Wks., Nashville, plans improving 20 mi. Clarksville-Waverly Rd. $150,000. State appropriates $100,000 towards cost. C. N. Bass, highway engr. Noted May 20.

Tenn., Erwin—Unicoi Co. and State Dept. Highways & Pub. Wks., Nashville, making surveys improving 15 mi. Erwin-Johnson City Rd. C. N. Bass, highway engr.

Tenn., Kingsport — Election soon $100,000 bonds, improving various streets.

Tenn., Lynchburg—Moore Co. and State Dept. Highways & Pub. Wks., Nashville, making surveys improving 10 mi. Lincoln Co. line to Franklin Co. line Rd. C. N. Bass, highway comr.

O., Akron—W. F. Peters, dir. Pub. Serv., soon takes bids grading, curbing and vitr. brick paving, etc., 3,360 sq.yd. Lane St., $26,000; also 6,985 sq.yd. Raymond St., $56,700. E. A. Kemmler, Municipal Bldg., engr.

O., New Philadelphia—Council soon takes bids asphalt resurfacing North Bway. from Fair to Munick Sts., 40 ft. $25,348. A. T. Rosch, asst. city engr.

Ind., Indianapolis—Plans improving 4,650 ft. Thompson and Nerwood Sts., Lowell, Tacoma and Elder Aves., $31,978; 5,936 ft. Pennsylvania and LeGrande Sts., $28,555; 5,429 ft. Barth, Terrace, Park and Southern Aves., $36,323; 5,177 ft. Blaine Ave. $42,183, 4,491 ft. Cruft St. from Shelby to State Sts. $27,318, 4,254 ft. Harding St. from 30th to 36th Sts. $37,867, 4,440 ft. Douglas St. from New York to Indiana Sts. $30,383, and 4,745 ft. Lee St. from Morris to Minnesota Sts. $37,923, all foregoing 24 ft. G. G. Schmidt, City Hall, engr.

Ind., Indianapolis — Marion Co. plans asphalt on stone paving 3 mi. Tibbs Ave. from Washington to 30th Sts., 20 ft. $91,000. W. W. Southard, Court House, engr.

Michigan—E. R. Benkert, resident engr., Port Huron, takes bids about June 14, 1.082 mi. S.T.L. 27-26, 20 ft., St. Clair Co.

Michigan — R. A. Beers, resident engr. Kalamazoo, takes bids about June 20, 2 course gravel paving 12 mi. T. L. 79-3, Barry Co.

Michigan—E. R. Benkert, resident engr., Port Huron, takes bids about June 15, concrete paving 1.25 mi. T. L. 27-26, 20 ft., St. Clair Co.

Mich., Birmingham — Plans curbing, guttering and 8 in. concrete paving Oakland and Poppleton Aves., Brown, Daines, Bates, George and Townsend Sts. $135,364.

Mich., Dearborn — Made plans concrete paving 1,357 sq.yd. Howe St., 8,430 sq.yd. Tenny St., 2,366 sq.yd. Audrey Ave., 1,455 sq.yd. Haigh St., 2,458 sq.yd. Homer Ave., and 2,442 sq.yd. Francis Ave. $50,000. R. H. Erley village engr.

Mich., Detroit—Plans grading, 3½ in. sheet asphalt on 8 in. concrete paving 2,460 sq.yd. Mackenzie Ave. $9,230, 26,500 sq.yd. Ryan Ave. Sect. 1 $95,280, 12,750 sq.yd. Lakeview Ave. $45,840, 3,900 sq.yd. Steel Ave. $16,320, 11,150 sq.yd. Dundee Ave. $43,800, and 2,160 sq.yd. Putnam Ave. $9,750. P. A. Fellows, city engr.

Mich., Detroit—Making plans 3½ in. sheet asphalt on 8 in. concrete paving 112,030 sq.yd. Vernor Highway, Lonyo Rd., Muirland, Appoline, Cheyenne, Civic, Joann, Central, Terry, Evanston, Indiana, Welland and Cloverdale Aves. $449,890.

Mich., Detroit — Dept. Pub. Wks., plans 3½ in. sheet asphalt resurfacing Catherin, Hancock, Leland, Lyman, Mechanic, Pulford, Superior, Sherman and Fort Sts., Canton, Chalmers, Driggs, Crawford, Cleveland, Frederick, Campbell, Hudson, Hurlbut, Holcumb, Gibson, Goethe, Goodwin, Iroquois, Mohawk, Maxwell, Marston, May, McKinley, Nall, Nebraska, Philadelphia, Perry, Parker, Pennsylvania, Peterson, Roosevelt, Springwells, Theodore, Thrombley, Visger, Willis, Adams, Baltimore, Central, Forest, Grand River, Jefferson, Kercheval, Linwood, Milwaukee, Mt. Elliott, Park, 3rd and Warren Aves.; paving Secor Pl., Grant St., Agnes, Brandon, Buffalo, Connors, Coram, Carter, Clarion, Dean, Fordham, Ferry, Fairview, Glenwood, Hern, Kriby, Kilbourn, Linzee, Meade, Nevada, Stockton, Greeley and Goethe Aves. P. A. Fellows, City Hall, engr.

Mich., Fordson—Made plans curbing and concrete paving 8,790 sq.yd. Assessment Dist. 127, and 945 sq.yd. Dist. 128. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs. Noted May 6.

Mich., Muskegon—Plans curbing, guttering, sheet asphalt on stone paving 2,100 ft. Washington Ave., 30 to 40 ft. $28,000. H. J. Lewis, City Hall, engr.

Mich., Muskegon—Making plans graveling and sheet asphalt paving 14,000 sq.yd. Lake Harbor Rd. $28,000. L. H. Nielson, Court House, engr.

Mich., Muskegon—Muskegon Co., making plans grading and concrete paving 3 mi. State Trunk Line Rd. from Ottawa St. to Giles Corners. $100,000. L. H. Nielson, Court House, engr.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids May 5, concrete surfacing Route 4, Sect. 63, St. Clair and Madison Counties.

Ill., Metropolis — Takes bids in summer grading, curbing and concrete paving 25 blocks Ferry, Metropolis, Girard, 3rd and 9th Sts., 24 and 36 ft. $122,000. L. L. Harper, River Forest, engr. Noted Jan. 21.

Wis., Oconto—P. T. Meeuwson, city clk., plans paving Main and Mott Sts., Superior and Scherer Aves. $25,000.

Ia., Newton—Jasper Co. voted $800,000 bonds, paving River to River Rd. R. MacMurray, Newton, co. engr.

Mo., Kansas City — Dept. Pub. Wks., making plans paving, etc. 14 blocks Oak

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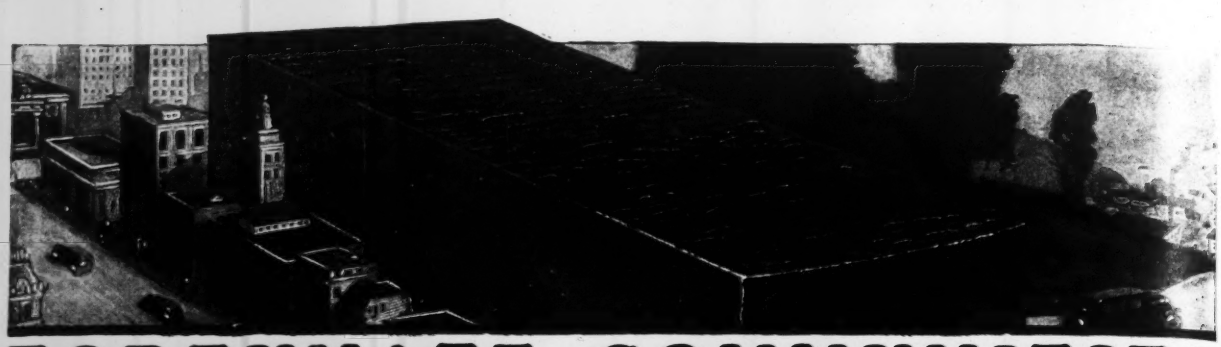

FORTUNATE COMMUNITIES

WHEN your father or your grandfather voted brick pavements for his community, he quite probably didn't realize that you, in 1925, would still be using them, and profiting by them in savings in taxes. Later, when he was tempted by a "new-fangled" pavement, it was because he thought it would be "just as good." The repairing and the repaving going on around you now, which you are paying for, is the proof that he was mistaken. The old, original, reliable, dependable brick has yet to be matched by anything of later development.

When your neighbors, business associates and friends today are tempted to approve the use of something other than brick, simply ask them which pavements in your neighborhood have given twenty years or more of service—and which types of comparable age have required the least patching and repairing.

Veteran pavements are *brick* pavements. Below are listed just a few of the communities, picked at random, which are profiting by the use today of brick pavements laid more than a quarter-century ago. The figure in parentheses after each name is age in years of the brick pavement.

Jacksonville, Fla.	(31)
Joliet, Ill.	(31)
Springfield, Ill.	(36)
Davenport, Iowa	(33)
Winona, Minn.	(33)
Greenville, Miss.	(26)
Meridian, Miss.	(27)
Lincoln, Neb.	(34)
Tonawanda, N. Y.	(34)
Bucyrus, Ohio	(30)
Cleveland, Ohio	(35)
Columbus, Ohio	(37)
Steubenville, Ohio	(37)
Clearfield, Pa.	(34)
Williamsport, Pa.	(32)
Lynchburg, Va.	(33)
New Cumberland, W. Va.	(41)

Advocate VITRIFIED **Brick**

NATIONAL PAVING BRICK MANUFACTURERS ASSOCIATION, ENGINEERS BLDG., CLEVELAND, OHIO

THE PAVEMENT THAT OUTLASTS THE BONDS

Streets and Roads (Continued)

St. 40- to 60-ft. $25,000. R. W. Waddell, 2930 Locust St., engr.

Mo., Kansas City—Making plans paving Warwick Blvd. between 38th and 44th Sts. To exceed $25,000. R. W. Waddell, City Hall, engr.

Mo., Keytesville — Election June 15, $25,000 bonds, paving various streets. O. G. Dameron, Keytesville, engr.

Ark., England—Takes bids about June 15, grading, curbing and Warrenite bitulithic concrete, etc., paving various streets in business district. Dickinson & Watkins, 608 Boyle Bldg., Little Rock, engr. Noted May 29.

Tex., Batesville — Zavalla Co. election soon $600,000 bonds, hard paving, etc., 42 mi. various roads; also making plans grading, bridging and gravel surfacing 32 mi. Highway 55, 18 ft. $390,000. N. H. Hunt, Batesville, co. judge.

Tex., Beaumont — Making preliminary plans shell paving 2 mi. road from point east of Vidor toward Connell, etc., 40 ft. $28,000. Private plans.

Tex., Bonham—Fannin Co. making plans concrete paving 3½ mi. Highway 5, 18 ft. $110,000. Address S. E. Nielson, Bonham, judge.

Tex., Brackettville—Kinney Co. election July 10, $150,000 bonds, probably gravel surfacing 13 mi. highway, radiating from here. J. H. Stadler, Brackettville, judge.

Tex., Brenham—Washington Co. making plans concrete paving 18.3 mi. Highway 36, 18 ft. $559,800. G. A. Bracher, Brenham, co. engr.

Tex., Carrizo Springs—Dimmitt Co. election soon $600,000 bonds hard paving 32 mi. highway. Address W. H. Davis, Carrizo Springs, judge.

Tex., Columbus — Colorado Co. plans improving 14 mi. highway. $140,000. Federal Aid appropriated $54,000 towards cost. Address County Judge.

Tex., Corpus Christi—See "Unclassified."

Tex., Eagle Pass — Maverick Co. takes bids after June 10, gravel surfacing 24½ mi. Highway 85, 18 ft. $122,000. State Aid appropriated about 50% of cost. C. E. Wright, Eagle Pass, engr.

Tex., Galveston—Election June 29, $250,000 bonds, paving various streets. C. A. Holt, Jr., city engr.

Tex., Galveston—Galveston Co., election soon $500,000 bonds, improving highway. C. C. Washington, Galveston, engr.

Tex., Gatesville — Coryell Co. making plans asphaltic concrete paving 1.288 mi. Highway 7, 20 ft. $27,375. M. L. Minter, Gatesville, co. engr.

Tex., Jourdanton—Atascosa Co. making plans asphalt on macadam paving 4.687 mi. Highway 9-A, 18 ft. $91,300. J. V. Curnutte, Jourdanton, engr.

Tex., La Grange—Making plans grading, bridging and gravel surfacing 7½ mi. Highway 44. $120,500. R. E. Schiller, La Grange, engr.

Tex., Linden—Cass Co. making plans 1 in. rock asphalt on stone paving 9.45 mi. Highway 8, 18 ft. $166,000. F. E. Hess, Linden, co. engr.

Tex., Olmito (near Brownsville) — A. Parker Securities Co., Brownsville plans hard paving 21 mi. streets throughout 1,000 acre property, incl. 3 mi. scenic drive, here. $450,000, also 40 mi. concrete sidewalks $45,000.

Tex., Point Isabel—James-Dickinson Co., Point Isabel and Brownsville, etc. making plans and takes bids improving 2 mi. various streets, 40-80 ft. $150,000.

Tex., San Antonio — Making plans hard paving 8 blocks Guadalupe St. from South Laredo to Brazos Sts., 40 ft. $59,000. I. Ewig, city engr.

Tex., Sweetwater—Nolan Co. made plans grading, bridging and bituminous macadam paving 4.1 mi. Highway 79. $113,326. J. O. Focht, Sweetwater, engr.

Tex., Tyler—Smith Co. making plans two course bituminous topping 14 mi. Highway 64, and 6 mi. Highway 31, 18 ft. $75,000. D. K. Caldwell, Tyler, co. engr.

Okla., Pawnee—Pawnee Co. voted $400,000 bonds, paving 54 mi. various roads, 30 ft. J. M. Page, Capitol, Oklahoma City, engr. Noted May 6.

Okla., Guthrie—Plans grading and concrete paving 12,770 sq.yd Drexel Ave. and various alleys. $37,575. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Wash., Ellensburg—Making plans concrete paving, etc. 20 blocks various streets, 30 ft. $77,164.

Calif., Los Angeles—Made plans improving Cabrillo St. between 12th and 22nd Sts., 4,418 cu.yd. cut, 28,262 sq.ft. 5 in. concrete paving, 102,509 sq.ft. 2 in. Willite on 3 in. asphaltic concrete surfacing, etc.; Rosanna St. between Riverside Dr. and Ripple St., 8,988 cu.yd. cut, 208,965 sq.ft. 5 in. concrete paving with 7 in. expansion joint on centre line, etc.; and 2 in. Warrenite surfacing, etc., 7th, Ingraham Sts., etc., near Figueroa St. J. C. Shaw, City Hall, engr.

Calif., Los Angeles—Made plans improving Rosanna St. between Riverside Dr. and Ripple St., 208,965 sq.ft. 5 in. concrete paving with 7 in. expansion joint on center line; also Florence Ave. between South Park and Vermont Aves., 205,532 sq.ft. ½ walk, 542,757 sq.ft. 8 in. concrete paving with 10 in. expansion joints, 24,221 sq.ft. 3 in. asphaltic concrete base. J. C. Shaw, City Hall, engr.

Calif., Los Angeles — Los Angeles Co. made plans improving Co. Impvt. 363, portion Centre St., 4,971 cu.yd. excav., 49,870 sq.ft. 2 in. Willite on 3 in. asphaltic concrete paving and 51,571 sq.ft. disintegrated granite sub-base, etc.; also Co. Impvt. 554, portion Seville Ave., 1,096 cu.yd. excav., 1,994 ft. curbing, 1,780 sq.ft. guttering, 37,548 sq.ft. concrete paving, etc. G. W. Jones, co. rd. comr.

Calif., Los Angeles—Made plans curbing and 6 in. special section concrete paving with 8 in. expansion joint on centre line 94,084 sq.ft. Alcott and Holt Sts. J. C. Shaw, City Hall, engr.

Calif., Los Angeles — Los Angeles Co. made plans paving road south ½ of Sherman Way between Van Nuys and Ownesmouth. $350,000. G. W. Jones, co. rd. comr.

Calif, Oakland—Made plans improving East 18th St. between 4th and 14th Aves., 69,922 sq.ft. grading, 63,733 sq.ft. 1½-in. Warrenite bitulithic on 5-in. concrete surfacing, etc.; also 82nd Ave. between East 14th and Olive Sts., 94,884 sq.ft. grading, 84,012 sq.ft. asphaltic concrete paving, etc. W. W. Harmon, city engr.

Calif., Oakland—Making plans repaving Grand Ave. between Euclid Ave. and Mandana Blvd. $45,000. W. W. Harmon, city engr.

Calif., Oroville—Butte Co. made plans improving Lone Pine Ave., 2,500 tons stone surfacing, 79 tons asphalt Grade "E" oil, asphaltic macadam paving, etc. H. H. Hume, Oroville, co. engr.

Calif., San Francisco—Made plans 8 in. concrete paving, etc. 62,050 sq.ft. Bluxome St. between 4th and 6th Sts. $26,000. M. M. O'Shaughnessy, city engr.

Calif., San Francisco — Plans widening, curbing, paving, etc. Silver Ave., $25,500; paving, curbing, etc. Turk St. between Masonic and Willard Sts. $36,000, San Jose Ave. between Cotter and Monterey Blvd. $27,000, Grand View Ave. $45,000, 3rd St. between Berry and 18th Sts. $67,500, Bay Shore Highway $135,000 (to be appropriated by city) and Ocean Shore Highway $45,000. M. M. O'Shaughnessy, city engr.

Calif., San Luis Obispo — Making plans improving Buchon St., 6,573 sq.ft. concrete walks, 784 lin.ft. concrete curbing, 121,481 sq.ft. 6 in. concrete paving, etc. L. W. Moore, city engr.

Calif., San Rafael—Making plans grading, curbing, and permanent paving portions Belle Ave., Elm, Watt Sts., etc. To exceed $25,000.

Calif., Santa Ana—Made plans improving portions of Pomona, Berkeley Sts., etc., 129,660 sq.ft. concrete paving, 2,486 ft. 6 in. sewer, etc. N. H. Neff, city engr.

Calif., Santa Barbara — Making plans paving, curbing, walks, etc. on East Blvd. between State St. and Booths Point. $400,000 or more. C. W. Moore, city engr.

Calif., Vallejo — Making plans paving, curbing, guttering, walks and paving, etc. portions George, Louisiana, Branciforte and Marin Sts., etc. To exceed $25,000. T. D. Kilkenny, city engr.

Ontario — Queen Victoria Park Comn., Niagara Falls, plans 2 mi. extension Canadian Niagara Blvd. from Bridgeburg to Old Fort Erie. $50,000.

Ont., Lambton — Plans concrete paving Lake Shore Rd. $40,000. J. McCallum, County Bldg., Sarnia, engr.

Ont., Peterboro—Council plans concrete paving Reid and Ribidge Sts. $43,000. S. R. Armstrong, City Hall, engr.

Ont., Renfrew — Provincial Hy. Dept., Toronto, soon takes bids penetration macadam paving 6 mi. Ottawa-Pemeroke Highway, 20 ft. $1,000,000.

Ont., St. Catharines—Making plans asphaltic concrete paving Geneva St., $22,290; and asphalt surfacing Ontario St., $21,800. B. F. Lamson, City Hall, engr. Noted Apr. 22.

Ont., Toronto—York Twp. plans 12 in. brick block guttering and asphaltic concrete paving 2,800 ft. Rushton Rd., $25,076; bitulithic paving, etc. 850 ft. Hanson Rd. $12,534, and 1,150 ft. Robina Ave. $17,213. F. B. Goedike, 40 Jarvis St., engr.

Ont., Toronto — City council soon takes bids concrete curbing 1,180 lin.ft. Hanson St., $1,108; 5 ft. concrete sidewalks on 630 ft. Belsize Dr. $1,829 and 610 ft. Hanson St. $1,139, also 6 ft. walks on 260 ft. Wychwood Ave. $892; asphalt paving, etc. Gladstone Ave. $5,277, Hanson St. $9,911; Markham St. $14,933 and Robinson St. $6,225, also concrete paving lane first north of Montrose Ave. $5,661. R. C. Harris, City Hall, engr.

Que., Westmount — Plans paving St. Catherine St., Green and Glen Aves. $60,000.

Ont., Guelph — Plans concrete paving 8,000 sq.yd. various streets, $24,000; and 1,000 lin.ft. concrete sidewalks on various streets, $1,200. H. S. Nicklin, City Hall, engr.

Alta., Edmonton — Plans grading and paving various streets. $130,000. K. A. Blatchford, mayor.

Bids Desired

New Hampshire — June 11, by State Hy. Dept., Concord, concrete paving, etc. 10,400 sq.yd. highway in Hillsboro and Manchester, $47,000; bituminous macadam paving 8,596 sq.yd. in Grafton and Plymouth, $25,000; also bridging and asphalt paving 6,680 sq.yd. in Merrimack and Franklin, $41,000. F. E. Everett, Concord, comr.

Massachusetts—June 15, by Dept. Pub. Wks., Boston, bituminous macadam paving 4,500 ft. highway in Lakeville 2,100 ft. in Enfield, 5,732 ft. in Middleborough, 2,700 ft. in Sharon, 2,950 ft. in Freetown, 5,417 ft. in Winchendon, and 5,866 ft. in Stockbridge. W. F. Williams, comr.

Mass., Boston—June 14, by Dept. Pub. Wks., sheet asphalt or bitulithic paving Tremont St. and Harvard Ave. $25,000. J. H. Sullivan, comr.

Mass., Boston—June 16, by Dept. Pub. Wks., artificial stone sidewalks on Bullard, Evans, Hamilton, Robin Hood, Dane and Foster Sts., also Elm Hill and Lochstead Aves. $25,000. J. H. Sullivan, comr.

Mass., Holliston—June 22, by Dept. Pub. Wks., Boston, bituminous macadam paving 17,493 ft. highway, 18 ft., here. W. F. Williams, comr.

Mass., North Adams—June 23, by E. R. Doble, comr. Pub. Wks., curbing, sidewalks, and concrete paving, etc., River St.; adv. E. N.-R. June 10.

N. Y., Brooklyn — June 16, by J. A. Guider, pres. Brooklyn Boro, Boro Hall, grading, curbing, flagging, etc., 90th and 54th Sts., East 31st and 13th Sts.; grading and 3 in. asphaltic block on 6 in. concrete paving 41st and 51st Sts.; grading and asphalt on concrete paving Bay Ridge, Atkins, and Brooklyn Aves., Lorimer, Sackman, East 9th, 13th, 31st, 35th, Hinsdale, 54th and 90th Sts.

N. Y., Bronxville—See "Bridges."

N. J., New Brunswick—June 17, by Bd. Freeholders Middlesex Co., concrete paving 10,636 sq.yd. Aqueduct-Plainsboro Cranbury Rd., and 0.75 mi. Stelton-New Market Rd.; also sheet asphalt paving section South Amboy-Sayreville Rd., Sayreville Boro. W. F. Buchanan, 75 Smith St., Perth Amboy, engr.

N. Y., New York—June 16, by J. Miller, pres. Manhattan Boro, Municipal Bldg., grading and asphalt block on concrete repaving Bethune St.; sheet asphalt repaving Madison and 5th Aves.

N. Y., New York—June 18, by A. Goldman, comr. Plant & Structures, Municipal Bldg., paving and sidewalks easterly end 155th St. viaduct.

New Jersey—June 28, by State Hy. Comn., Trenton, constructing Route 9, Sect. 16A, Bloomsbury-West Portal Highway, Hunterdon Co.; Route 20, Sect. 6, Franklinville-Malaga Highway, Gloucester Co.; and Route 1, extension in Essex and Hudson Counties. A. L. Grover, secy.; adv. E. N.-R. June 10.

N. J., Paulsboro—June 16, by Bd. Freeholders Gloucester Co. (Woodbury), grading and paving 67,005 sq.yd. Paulsboro-Jefferson Rd., here. W. C. Cattell, Woodbury, engr.

N. J., Roselle—June 18, by Boro Council, Borough Hall, grading, curbing, asphaltic concrete or rein.-con. paving various streets. W. M. Van Wagner, boro engr.; adv. E. N.-R June 10.

N. Y., St. George — June 16, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading, curbing, guttering and bituminous macadam paving Ellsworth Pl. and Homestead Ave.

N. J., Woodbury—June 16, by Bd. Freeholders Gloucester Co., Courthouse, rein.-con. paving approximately 67,005 sq.yd. Paulsboro-Jefferson Rd. W. C. Cattell, Court House, co. engr.; adv. E. N.-R. June 10.

Pa., Uniontown—June 17, by E. Houston, controller, Fayette Co., rein.-con. paving 15,153 ft. Continental No. 3-High House Rd.; also concrete resurfacing 7,243 ft. Thompson Crossing-Revere Rd.; and grading, constructing 16 ft. span rein.-con. bridge, etc. on 7,327 ft. Haydentown-Ices Ferry Rd.

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A Nichols 36" sewer pipe 10' long, 2½" wall thickness, 3½ lbs. reinforcement per lin. foot. Total load to first full length outside crack, 42,000 lbs.

Nichols Concrete Pipe

Centrifugally Densified

Manufacturing Processes and Equipment Fully Patented

Nichols Pipe easily exceed standard strength requirements for pipe designed for pressure lines and for sewers.

They are spun in a machine that has many important advantages which contribute to the quality of the product and its economical manufacture.

Each pipe is cast in a one-piece mold, which cuts handling costs.

The screw feed assures even distribution of aggregate and builds up a pipe wall of uniform density and strength.

The patented burnisher removes excess water and deleterious material from the pipe interior while densifying and gives it a virtual glaze.

Portable plants are available, making it possible to manufacture the pipe near or at the job. Our system of bulkhead curing insures a product of uniform quality.

We are prepared to execute pressure pipe and railway culvert pipe contracts and to equip and license plants for the manufacture of sewer and highway culvert pipe.

We shall be glad to discuss the pipe business with responsible individuals and corporations.

Nichols Centrifugal Products Corporation
8100 E. Jefferson Ave., Detroit, Mich.

Streets and Roads (Continued)

Maryland—June 15, by State Rds. Comn., Baltimore, concrete paving 1 mi. Contr. W-44, Washington Co., and 2.28 mi. Contr. P-67, Prince Georges Co.; graveling 2 mi. Contr. Ch-40, Charles Co.; and concrete shoulders on 1 mi. M-71, Montgomery Co. J. N. Mackall, chn.; adv. E. N.-R. June 10.

Md., Baltimore—June 16, by Bd. Awards, sheet asphalt paving 7,400 sq.yd. Constr. 345; and concrete paving 9,980 sq.yd. Contr. 346. S. Purcell, City Hall, highways engr.

W. Va., Glennville—June 23, by Gilmer Co. Court, N. E. Rymer, clk., grading, etc., 1.4 mi. Big Cove Rd., Project 3364, Route 18, Troy Dist., and 11.4 mi. Staunton-Parkersburg Pike, Project 3364, Route 11, Troy Dist.

W. Va., Glennville—June 23, by Common Council, grading, curbing and concrete paving Main, Bridge, Court and College Sts. $41,500. Horner Bros., Clarksburg, engrs.

W. Va., Lewisburg—June 12, by Greenbrier Co. Court, bituminous macadam on present waterbound macadam surfacing 1 mi. Arbuckle Lane, 9 ft.; grading and bituminous macadam surfacing 1 mi. Back Frankford Rd., 0.75 mi. Sydensticker Rd., 1 mi. Huffnagle Rd., Brush Rd., length to make expenditure $8,500, Bunger and Herns Mills Rd., $4,250, Reader Rd. $8,500, all foregoing 9 ft., Judyville Rd., 16 ft. $3,500, Church St. from Midland Trail to Fort Spring, German St.-Holt Lane Rd. from Church St. to Lipps Lane, Jefferson St. from Main St. to Arbuckle Lane, Echols Lane, $4,000, Court St. $2,000, and Chestnut St. from Jefferson to Lee Sts.; grading and creek gravel surfacing 1.6 mi. Greenbrier River Rd., 9 ft.; grading and broken stone surfacing 1 mi. Biggs-Watts Rd., 9 ft., Raders Valley Rd., $8,500, Racket St. $4,000, and Sydensticker Rd. $4,250. H. L. Handley, Lewisburg, co. engr.

North Carolina—June 29, by State Hy. Comn., Raleigh, hard surfacing roads in Guilford, Union, Stokes and Madison Counties; topsoiling, sand clay, gravel or grading roads in Bertie, Chowan, Halifax, Sampson, Wake, Randolph, Davidson, Scotland, Davie, Henderson, McDowell and Transylvania Counties; structures only in Richmond Co.; adv. E. N.-R. June 10.

South Carolina—June 15, by State Hy. Dept., Columbia, sand clay surfacing, etc., 8.7 mi. State Route 121, State Project S-550-A Aiken Co., 9.5 mi. State Route 6, State Project S-606-A Orangeburg Co., and 4.2 mi. State Route 53, State Project S-632 Florence Co.; concrete paving, etc., 8.6 mi. State Route 2, State Project 38-C Oconee Co.; topsoiling, etc., 4.8 mi. State Route 2, State Project S-631-A Pickens Co., and 0.511 mi. State Route 9, Federal Aid Project 269, Chester-Lancaster Counties; also crowning, shaping and maintaining subgrade on 3.9 mi. State Route 12, State Project S-522-C, Aiken Co., State Highway Engineer, Columbia, engr.

Fla., Tampa—June 15, by City Comrs., grading, granite curbing, and 2 in. Filbertin surfacing 10,500 sq.yd. paving, etc., Impvt. 151 and 156, portions Chestnut and Mohawk Sts. $30,000. A. D. Martin, City Hall, engr.

Fla., Tampa—June 15, by City Comrs., 4 x 18 in. granite curbing, and 2 in. Filbertin on 6 in. rock paving portions 13th and 9th Sts., Impvts. 197 and 198, $25,000; also 10,500 yd. Palmetto and Comanche Sts., Impvts. 168 and 196, $30,000. R. D. Martin, City Hall, engr.

Alabama—June 16, by State Hy. Comn., Montgomery. **(F. A. P. means Federal Aid Project and S. A. P. means State Aid Project)**, improving 5 mi. Butler-Coatopa Rd., S. A. P. 100-A, Choctaw Co., 20.211 acres clearing and grubbing, 70,238 cu.yd. earth and 200 cu.yd. rock excav., 7,195 sta.yd. overhaul, 57,134 lb. reinforcing, 16,411 sq.yd. Bermuda sod, etc.; 11.58 mi. Linden-Thomaston Rd., F. A. P. 132, Marengo Co., 15.25 acres cleaaring and grubbing, 87,992 cu.yd. earth and 4,006 cu.yd. rock excav., 5,781 sta.yd. overhaul, 31,000 lb. reinforcing, 18,000 sq.yd. Bermuda sod, 181,639 ft. creosoted timber, 5,984 ft. creosoted piling, etc.; 14.9 mi. Fruitdale-Mobile Co. line Rd., S. A. P. 79, Washington Co., 98.85 acres clearing and grubbing, 163,593 cu.yd. earth excav., 48,000 sta.yd. overhaul, 58,300 lb. reinforcing, 30,000 sq.yd. Bermuda sod, etc.; 1.04 mi. Mountain Creek-Soldiers Home Rd., S. A. P. 153, Chilton Co., 3.7 acres clearing and grubbing, 7,805 cu.yd. earth and 500 cu.yd. rock excav., 2,335 sta.yd. overhaul, 3,138 lb. reinforcing, 2,500 sq.yd. Bermuda sod, etc.; 4.5 mi. Coffee Springs Rd., S. A. P. 108, Geneva and Coffee Counties, 4.76 acres clearing and grubbing, 24,255 cu.yd. excav., 2,890 sta.yd. overhaul, 6,479 lb. reinforcing, 9,000 sq.yd. Bermuda sod, 22,508 ft. creosoted timber, 936 ft. creosoted piling, etc.; 15 mi. Boaz-Attalla Rd., F. A. P. 165, Etowah Co., 31.105 acres clearing and grubbing, 103,432 cu.yd. earth and 57,394 cu.yd. rock excav., 241,928 sta.yd. overhaul, 72,611 lb. reinforcing, 29,548 sq.yd. Bermuda sod, etc.; 6.44 mi. Citronville-Neosho Co. line Rd., S. A. P. 54, Mobile Co., 15.51 acres clearing and grubbing, 66,436 cu.yd. excav., 27,795 sta.yd. overhaul, 16,084 lb. reinforcing, 12,000 sq.yd. Bermuda sod, etc. W. A. McCalla, highway engr.

Miss., Louisville—June 15, by Bd. Supervs. Winston Co., improving 6.994 mi. Federal Aid Project 74-D, 44,270 cu.yd. excav., 241 cu.yd. borrow, 25,901 lb. reinforcing, 2.7 mi. Bermuda sod, etc. H. C. Dietzer, Jackson, engr.

Miss., Quitman—June 16, by Bd. Supervs. Clarke Co., improving 3.725 mi. Federal Aid Project 180-B, 33,843 cu.yd. excav., 11,338 cu.yd. borrow, 46,749 lb. reinforcing, 1.82 mi. Bermuda Sod, bridges over 20 ft. span, 35,878 ft. creosoted and 1,260 ft. untreated timber, 1,336 ft. creosoted piling, etc. H. C. Dietzer, Jackson, engr.

Miss., Woodville—June 18, by Bd. Supervs. Wilkinson Co., improving 7.926 mi. Federal Aid Project 62-A, 53,730 cu.yd. excav., 5,681 cu.yd. borrow, 40,585 lb. reinforcing, 16,634 cu.yd. gravel 1 mi. haul, 68,613 units ½ mi. haul, 3.2 mi. Bermuda sod, etc. H. C. Dietzer, Jackson, engr.

Louisiana—June 29, by State Hy. Comn., Baton Rouge, graveling 8.2 mi. Minden-Springhill Highway, State Project 411-D, Webster Parish, and 0.82 mi. St. Amant-Port Vincent Highway, State Project 459-B, Ascension Parish; also separate bids furnishing gravel for above. W. B. Robert, Reymond Bldg., Baton Rouge, highway engr.

Ohio—June 11, by G. F. Schlesinger, dir. Highways & Pub. Wks., Columbus, grading, macadam, concrete, gravel, brick, asphalt, crushed stone, paving, etc. 311.366 mi. roads in Adams, Highland, Allen, Ashland, Athens, Brown, Butler, Carroll, Champaign, Clark, Clinton, Columbiana, Coshocton, Crawford, Cuyahoga, Fairfield, Franklin, Fulton, Geauga, Greene, Guernsey, Hancock, Highland, Huron, Lake, Lorain, Marion, Wyandot, Medina, Mercer, Monroe, Montgomery, Morgan, Muskingum, Perry, Portage, Richland, Sandusky, Stark, Trumbull, Warren, Washington, Williams, and Wood Counties. $5,060,558. R. H. Simpson, city engr.

O., Akron—June 21, by W. F. Peters, dir. Pub. Serv., grading, curbing, guttering and vitr. brick paving 9,070 sq.yd. and concrete paving 355 cu.yd. West South St., $101,900; vitr. brick paving 10,900 sq.yd. East North St. $62,000, 3,360 sq.yd. Lane St. $26,000, 7,055 sq.yd. Snyder St. et al $44,800, 4,525 sq.yd. Diagonal Rd. 1 $25,800, 10,910 sq.yd. Diagonal Rd. 2 $68,400, and 18,455 sq.yd. Blanche St., et al $143,000. E. A. Kemmler, Municipal Bldg., engr. Noted May 20.

O., Columbus—June 22, by W. H. Duffy, dir. Pub. Serv., grading, curbing and Durax paving 316 ft. Naghten St., 50 ft. $8,134; stone curbing and asphalt paving 4,371 ft. Walhalla Rd., 41 ft., $76,049; grading, curbing and paving with **(a)** brick **(b)** asphalt 514 ft. Spring St., 46 ft., **(a)** $7,795 **(b)** $7,095; 1,188 ft. 24th Ave., 24 ft. **(a)** $20,868 **(b)** $18,669, 4,699 ft. Torrence Rd., Duxberry and 15th Aves., 26 ft., **(a)** $69,755 **(b)** $63,344; and 882 ft. Hutson Ave. and Innis Rd., 30 ft. **(a)** $42,573 **(b)** $35,468. R. H. Simpson, city engr.

Indiana—June 22, by J. D. Williams, dir. State Hy. Comn., Indianapolis, **(S. R. means State Road)** brick, bituminous concrete and concrete paving, etc. approximately 11.5 mi. S.R. 1 and 38, Floyd and Clark Counties; 5.472 mi. S.R. 39, Shelby and Rush Counties; 6.495 mi. S.R. 39, Rush Co.; 5.275 mi. S.R. 2, Porter Co.; 5.5 mi. S.R. 2, Porter and LaPorte Counties; 0.897 mi. S.R. 16, Vanderburg Co.; 5.562 mi. road in Jasper Co.; 5.967 mi. road in Jasper and Porter Counties; 7.6 mi. S.R. 2, Starke and La Porte Counties; and 6.924 mi. S.R. 18, Dubois Co.

Ind., Ft. Wayne—June 25, by Bd. Comrs. Allen Co., grading and paving 5.76 mi. Illinois Co. Unit Rd. $161,993. J. H. Johnson, co. aud.

Ind., Ft. Wayne—June 25, by Bd. Comrs. Allen Co., grading and paving 10,710 ft. Summers Rd. $60,713. J. H. Johnson, aud.

Ind., Indianapolis—June 11, by City, permanent improving 2,309 ft. Euclid Ave., 30 ft. $46,378. G. G. Schmidt, City Hall, engr.

Ind., Indianapolis—June 11, by City, grading, wooden block, asphalt or asphaltic concrete on concrete paving, etc. 2,368 ft. Linwood Ave., $37,130; 2,322 ft. Drexel Ave., $41,944; 1,322 ft. Shannon St., $26,596; also Euclid Ave. G. G. Schmidt, City Hall, engr.

Michigan—June 14, by E. R. Benkert, resident engr., Port Huron, concrete paving 1.483 mi. T. L. 27-24, 20 ft. St. Clair Co.

Michigan—June 16, by A. R. Schaefer, resident engr., Newberry, surface treating 6 mi. T. L. 25-2A, Luce Co.

Michigan—June 16, by Muskegon Co. concrete paving 10.63 mi. A. D. 20, in Laketown and Fruitland Twps. L. H. Neilsen, Muskegon, engr.

Mich., Atlanta—June 15, by State Hy. Dept., at Alpena, graveling 2.828 mi. Federal Aid 199, Sect. A, Montmorency Co. G. H. Green, Alpena, engr. Noted June 3.

Mich., Muskegon—June 16, by Road Comrs. Muskegon Co., grading, concrete and sheet asphalt paving 10.8 mi. Lake Shore Rd., 20 ft., etc., also 40 ft. I-beam bridge over Duck Lake Channel. $437,000. L. H. Nielsen, Court House, engr. Noted May 20.

Mich., Wyandotte—June 17, by E. C. Bryan, city clk., curbing, concrete paving, etc., 3,432 sq.yd. Assessment Dist. 50, 8,630 sq.yd. Dist. 51, 3,886 sq.yd. Dist. 52, and 7,412 sq.yd. Dist. 53. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Ill., Avon—June 15, by Village, grading, curbing, guttering, sewers, and 7 in. concrete paving 12,225 sq.yd. various streets. F. M. Connolly, 428-431 Peoples Trust & Savings Bank Bldg., Galesburg, consult. engr.

Ill., Chicago—June 14, by Bd. Local Impvts., Room 207, City Hall, 6 ft. concrete sidewalks on Walden Parkway, Irving Park Blvd., West 58th, West 113th and West 114th Pl., West 57th, 58th and 59th, Isidor, East 80th, 81st and 82nd, West 61st and 62nd, West 84th and 85th, South Paulina, South Wood, Loomis, South Bishop, Laflin, West 96th, Fletcher, Metropole, East 83rd, 84th and 85th, West 47th, 48th and 49th, West 56th and 57th, South Mozart, South Richmond, Fletcher, George, Wolfram, East 93rd and 94th, Dakin, Byron, North Neenah, North Normandy, West 105th, 106th and 107th Unnamed, Plamer, West 105th, 106th and 107th, South Leavitt, East 80th, 81st and 82nd, West 122nd and 123rd, South Sangamon, School, West 63rd, 64th and 65th, West 57th and 58th, South Whipple, South Troy, and South La Salle Sts., South Lawndale, South Hamlin, Palatine, Natoma, North Normandy, North Oak Park, North New Castle, Newark, Ingleside, Drexel, Maryland, Cottage Grove, South Crawford, South Karlov, South Redvale, South Keeler, South Marshfield, South Hermitage, Ashland, Wentworth, Yale, Princeton, Harvard, Belmont, Barry, North Melvina, North Mobile, Anthony, Euclid, Bennett, Constance, Macfarlane, South Keeler, South Tripp, South Kildare, South Kolin, South Kostner, South California, South Mozart, South Francisco, South Sacramento, Wellington, North Austin, North Meade, North Melvina, Wellington, North Sayre, North Nordica, Phillips, Yates, Ogelsby, Crandon, Luella, North Neenah, North Normandy, North Oak Park, Wellington, Versey, North Melvina, North Merimac, North Mobile, North Mulligan, South Artesian, South Campbell, South Maplewood, Talcott, Bryn Mawr, North Nordica, North Neva, North Harlem, Dickens, Armitage, North Newland, North Sayre, North Nordica, South Leavitt, South Irving, South Oakley, South Claremont, Pratt, North Shore, Albion, Onarga, Oconto, Octavia, Odell, South Park, Calumet, Prairie, South Spaulding, Turner, South Homan, South Kilbourne, South Francisco, South Richmond, South Sacramento, South Whipple, South Albany, Peterson, Manton, Markham, North Austin, Schrieber, Ravenswood, Lafayette, South La Salle Aves. J. J. Sloan, pres.

Wisconsin—June 15, at Office 2, Stephenson Bldg., Milwaukee, grading and 20 ft. concrete paving, etc., 65,802 sq.yd. Federal Aid Project 429-A, Kenosha Co.; 11,222 sq.yd. Federal Aid Project 434-B, Milwaukee Co.; and 18,252 sq.yd. State Project Job 2672-B, Waukesha Co. J. T. Donaghey, Madison, ch. engr.

Wis., Marinette—June 14, by S. O'Shea, city clk., 7 in. rein.-con. paving, etc. Park Ridge Ave. between Park and Houston Sts., $17,000, Miller St. $20,000 and Carney Ave. between Hosmer and 5th Sts.; also two course rein.-con. paving, etc. Hosmer St. between Carney and Main Sts., $40,000. A. L. Hillis, City Hall, engr. Noted Mar. 25.

Wis., Milwaukee—June 12, by Dept. Pub. Wks., R. E. Stoelting, comr., asphalt resurfacing, etc. 15,189 sq.yd. Juneau Ave., Edison and North Water Sts.; also sheet asphalt paving, etc. 1,699 sq.yd. North Water St. J. Schwada, City Hall, engr.

Ia., Cresco—June 16, at office Auditor Howard Co., grading, etc. 6.02 mi. road, 31,655 cu.yd. excav., 5,475 cu.yd. channel change, 20,248 sta.yd. overhaul, etc. L. Brown, Cresco, co. engr.

Ia., Des Moines—June 15, at office Auditor Polk Co., grading 16 mi. Clive-Grimes, Murrow and Elkhart-Cambridge

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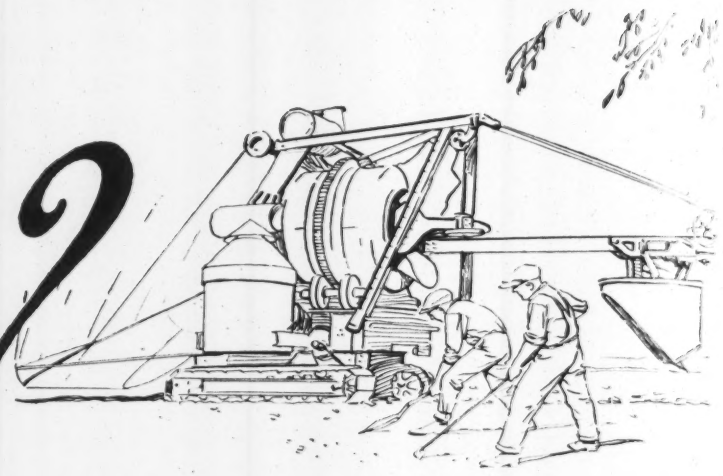
Ready with a Batch?



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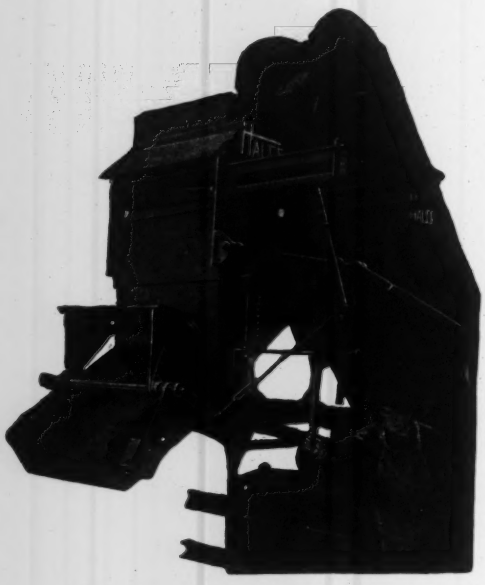

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Streets and Roads (Continued)

Rds., 132,353 cu.yd. excav., etc. F. O. Laing, Des Moines, co. engr.

Ia., Ft. Dodge—June 15, at office Auditor Webster Co., gravel surfacing 0.5 mi. road south of Dolliver Memorial Park, Primary Road Project 389-C; and grading 4.016 mi. Federal Aid Project 272, 26,621 cu.yd. excav., 16,900 sta.yd. overhaul, etc. G. Burnett, Ft. Dodge, co. engr.

Ia., Ft. Dodge — June 15, at office Auditor Webster Co., gravel surfacing 5.052 mi. and grading 2.323 mi. road west of Lehigh, Federal Aid Project 270, 48,894 cu.yd. excav., 8,352 cu.yd. gravel, etc. G. Burnett, Ft. Dodge, co. engr.

Kan., Independence—June 22, by Clerk Montgomery Co., grading, and concrete or vitr. brick surfacing 21,129 sq.yd. Federal Aid Project 199-A, and 29,671 sq.yd. Sect. B same project. H. K. Hibbard, Independence, co. engr. Noted May 27.

Kan., Mound City — June 25, by Clerk Linn Co., grading and concrete, vitr. clay or bituminous macadam paving 36,102 sq.yd. Federal Aid Project 109-C. C. E. Kenney, Mound City, co. engr.

Texas—June 15, by State Hy. Comn., Austin, H. Moseley, chn., two course 1 in. rock asphalt on limestone rock paving 16.098 mi. Highway 12, Federal Aid Project 429-G, Unit 2, Jim Wells Co. $315,700, 14.417 mi. same road, Federal Aid Project 429-H, Unit 2, $293,600, 5.931 mi. same road, Federal Aid Project 424-C, Unit 2 $124,435, 14.3 mi. same road, Federal Aid Project 429-E, Unit 2 $233,900, 13.69 mi. same road, Federal Aid Project 429-F, Unit 2 $282,500. F. E. Hess, Alice, co. engr.

Tex., Coleman—June 15, by Comrs. Coleman Co., single bituminous surface treating, 60.93 mi. Highway 7 and 23, Federal Aid Project 371-303-194-196, 18 ft. $300,000. J. Gresham, Coleman, engr. Noted Mar. 4.

Tex., Georgetown — Taking bids gravel and macadam paving 6.01 mi. Highway 2-B, Federal Aid Project 427, Unit 2, 18 ft. $42,000. M. C. Welborn, Georgetown, engr. Noted May 6.

Tex., Gonzales — June 15, by Comrs. Gonzales Co., bituminous macadam surfacing 8.084 mi. Highway 81, Federal Aid Project 440-D, Unit 2, 18 ft. $133,000. J. G. Irby, Gonzales, engr. Noted May 6.

Tex., Mt. Pleasant—June 22, by E. L. Myers, judge Titus Co., clearing, grubbing, bridging and grading 0.776 mi. Highway 65, Federal Aid Project 333-B, Sect. 2, 26 ft. $56,000. C. Chappell, Pittsburg, co. engr.

Tex., Pittsburg — June 21, by J. R. Hooten, judge Camp Co., clearing, grubbing, grading and bridging 5.019 mi. Highway 65, Federal Aid Project 333-B, Sect. 1, 26 ft. $167,000. C. Chappell, Pittsburg, co. engr.

Tex., Raymondville—June 15, by J. E. Johnson, city engr., curbing, guttering, rein.-con., bituminous on concrete or bituminous on gravel paving 25,000 sq.yd. various streets, for City. $70,000.

Tex., Slaton—City, c/o H. Austin, secy., taking bids curbing, guttering, and brick asphalt or concrete paving 45,141 sq. yd. various streets. $130,000. Montgomery & Ward, 545 Harvey-Snider Bldg., engrs.

Okla., Oklahoma City—June 14, by W. A. Jackson, clk. Oklahoma Co. concrete base on 14,370 sq.yd. Sect. 4, Oklahoma Co. Rd., $41,200; and on 17,460 sq.yd. Sect. 10, county road, $48,000. R. S. James, Court House, engr.

Colo., Denver—June 15, by Dept. Impvts. & Parks, asphaltic concrete paving 12 blocks each in Washington Park Paving Dist. 5, South Capitol Hill Paving Dist. 7, and Capitol Hill Paving Dist. 14. A. K. Vickery, City Hall, engr.

New Mexico—June 21, at office J. A. French, state engr., Santa Fe (**F. A. P. means Federal Aid Project**), grading and two course graveling 3.27 mi. F. A. P. 97-A; grading, two course graveling and bridging, etc., 5.56 mi. F. A. P. 114-A, 5.97 mi. F. A. P. 114-B, 10.26 mi. F. A. P. 147-B, and 8.95 mi. F. A. P. 147-D; also bridges F. A. P. 147-C

California—June 21, by State Hy. Comn., Sacramento, concrete paving 0.55 mi. road between West Sacramento and M St. bridge. R. M. Morton, Forum Bldg., highway engr.

Calif., Alturas—June 21, by L. S. Smith, clk. Modoc Co., improving roadway beginning at Sunrise station approximately 8 mi. north of Alturas point northerly 3.7 mi., 45,820 cu.yd. unclassified excav., 415 cu.yd. structural excav., etc.

Calif., Los Angeles—June 21, by Supervs. Los Angeles Co., improving Inglewood Ave., Impvt. 317, 38,177 cu.yd. excav., 428,787 sq.ft. 2 in. and 3 in. Willite paving, 371,479 sq.ft. 5 in. disintegrated granite sub-base, etc. To exceed $125,000. G. Jones, Hall of Records, engr.

Calif., Los Angeles—June 21, by Supervs. Los Angeles Co., improving Road Dist. Impvt. 279, Washington St., 598,286 sq.ft. 6- to 8-in. concrete paving, 76,346 sq.ft. concrete paving, 704,000 sq.ft. 5 in. disintegrated granite surfacing, etc. G. Jones, Hall of Records, engr.

Calif., Los Angeles—June 21, by Supervs. Los Angeles Co., improving Washington St. from Ocean Ave. to Downey Rd., 30,263 cu.yd. earth excav., 598,286 sq.ft. 6-8 in., and 76,349 sq.ft. 8 in. concrete surfacing, etc. $182,296. G. Jones, Hall of Records, engr.

Calif., Oakland—June 21, by G. A. Gross, clk., Alameda Co., improving roadway from Newark to Dumbarton Bridge, 1,300 cu.yd. excav., 1,500 cu.yd. grading, 77,000 sq.ft. gravel sub-base, and (alternate bids), 70,000 sq.ft. each 6-8 in., 7 in. and 6-8 in. concrete paving, etc. $50,000. G. A. Posey, Oakland, co. surv.

Ont., Kingston—See "Contracts Awarded."

Que., Montague — June 11, by I. L. Boulanger, deputy minister Dept. Roads, Quebec, resurfacing 31,601 ft. streets in St. Therese Parish and others, 20 ft.

Man., Gladstone — June 12, by Municipality Westbourne, grading various roads. W. J. McGregor, secy.

Alta., Edmonton—June 15, by D. Mitchell, city comr. grading and graveling about 45,000 lin.ft. roadway. $50,000.

Bids Received

Massachusetts—Dept. Pub. Wks., Boston, June 1, bituminous macadam paving 26,033 ft. highway in Paxton and Worcester, from D'Onfro Bros. Co., Inc., 712 Main St., Leominster, $240,044; and 26,670 ft. in Goshen and Williamsburg, from Lane Constr. Corp., 37 Colony St., Meriden Conn., $261,710. Noted May 20.

Massachusetts—State Hy. Dept., Boston, June 1, bituminous macadam paving 22,161 ft. highway in Chelmsford and Westford, from Indian Head Constr. Co., Fairburn Bldg., Lowell, $164,547; graveling 4,000 ft. in Newbury, from Welch & Moynihan, 15 Front St., Salem, $10,986; rein.-con. paving 10,116 ft. in Methuen, from T. W. Jewett, Inc., 35 7th St., New Bedford, $87,240, and 3,410 ft. in Plainville, from F. P. Manning, 27 Coral St., Fall River, $39,111.

Rhode Island — State Rd. Pub. Roads, Providence, paving highway in Portsmouth, from B. Venuti, New London, Conn., $213,315; in North Smithfield, from M. A. Gammino, 728 Valy St., Providence, $129,619; in Lincoln, from B. E. Jordan, Providence, $46,143; in Burrillville, from J. P. Greene, Worcester, Mass., $30,785; in East Providence, from Lane Constr. Co., 37 Colony St., Meriden, Conn., $43,780.

N. Y., New York—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., June 3, grading, culverts, etc., in East 211th and West 263rd Sts., from S. Nugent, Riverside Dr. and 170th St., $4,707 and $3,625 respectively; and Wilson Ave., from A. Gregorio & Co., 1129 Neill Ave., $11,600; also granite block paving Boston Rd. from L. Di Minna, 2366 Lorillard Pl., $340,856. Noted May 27.

N. J., Westwood — Mayor and Boro Council, Center St. Firehouse, June 1, grading and macadam paving Clairmont Ave., from La Crote Constr. Co., Lodi, $27,190; paving and curbing Lexington Ave., from Abbate & Buniva, Tenafly, $14,963; and paving 4th Ave., from Taveniere & Johnson, Closter.

Pennsylvania—State Hy. Dept., Harrisburg, June 3, (**R. means Route and A. means Application**), one course rein.-con. paving, etc., 14,488 ft. A. 3941, and 4,501 ft. A. 3827, York Co., from York Eng. & Constr. Co., 21 West Market St., York, $96,859 and $41,786 respectively, 8,027 ft. Rs. 435 and 436, A. 3386, Jefferson Co., from J. Wiesner & Son, 372 Chestnut St., St. Marys $61,849, 3,235 ft. R. 59, Clearfield Co., from J. B. Trexler, Lewistown, $50,709, 20,890 ft. R. 116, Sect. 4, Fayette Co., from Elder & Merriman, Ebensburg, $185,063, 27,092 ft. R. 78, Sect. 3, As. 3798-4212, Beaver Co., and 4,917 ft. R. 70, Sect. 3, Allegheny Co., from R. H. Cunningham & Son Co., 617 Penn Ave., Turtle Creek, $245,148 and $115,173 respectively, 10,762 ft. A. 4003, Westmoreland Co., from J. C. Mickey, 1601 Linonier St., Latrobe, $79,480, 2,929 ft. R. 84, Sect. 5, Erie Co., from C. H. Fry Constr. Co., 1902 Cherry St., Erie, $26,192, 17,813 ft. A. 3783, Beaver Co., from O. B. Bracht, Titusville, $121,067, and 3,372 ft. R. 389, A. 3944, Allegheny Co., from M. O'Herron Co., 1st and McKean Sts., Pittsburgh, $56,808; also waterbound macadam paving 7,502 ft. A. 2764, Mifflin Co., from J. M. Hutchison, Altoona, $52,858; and grading, etc., 21,817 ft. Sect. 2, A. 3842, Berks Co., from Smith-Fenstermacher, 123 North Madison St., Allentown, $46,978. Noted May 20.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, from D. Duffin, 6101 Roosevelt Ave., grading Algon, Comly, Frontenac, Langdon and Sanger Sts. $17,048, from R. B. Wenner, 2313 Walnut St., Evarts and Placid Sts. $10,705, from E. A. Mullen, Inc., 5512 Vine St., Gray St. $2,091, and Yocum St. $1,261, from Gudknecht & Cullison, Torresdale and Roobins Aves., Loughlin St. $532, from Dewees Bros., 7200 Shelbourne St., Shelbourne St. $1,227, and from F. Mark Contg. Co., N. and Winghocking Sts., 20th St. $3,065; from Eastern Asphalt Co., Penna Bldg., asphalt paving (assessment work), Belfield St. $5,938, Dyre and Oakland Sts. $7,088, Shawnee St. $5,637, Stenton St. $7,587, Tulip St. $6,087, Wilmot St. $2,149, 67th St. $7,697, from Union Paving Co., 123 South 21st St., Chester St. $32,681, and M St. $16,406, from Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., Ellet St. $7,502, Luzerne St. $30,391, and Wooddale St. $9,547, from Barber Asphalt Co., 239 North 30th St., Fayette St., 76th, 79th and 80th Aves. $46,990, Washington Lane $6,089, 2nd St. $11,944, and from Fox-King Constr. Co., Audubon, N. J., 46th St. $35,871; from Curtis Bros., State and Unrah Rds., improving country roads (**a**) $16,596 and (**b**) $15,325, from M. Leewright, 424 Seville St., Lawnton Rd. (**a**) $2,848 (**b**) $2,524, from A. J. Henderson, 825 East Washington Lane, Thompson Rd. $1,911, and from R. Foster Co., Inc., 20th and Venango Sts., 58th St. $4,669; from Golden Constr. Co., 263 South 15th St., repairing Adams Rd. Bridge 45, $1,945; from Keystone Boiler Wks., Inc., 50 North 23rd St., erecting steel smoke shield on 34th St. Bridge 257 over Pennsylvania R.R. tracks $4,040; from J. J. McHugh, Jr., 892 North Markoe St., repairing same bridge $3,682, Broad St. Bridge 64 over Philadelphia & Reading Subway $3,497, and Oak Lane Bridge 192 over North Penn Branch Philadelphia & Reading Subway $1,500; from Mundy Paving & Contg. Co., 226 South Warnock St., replacing wooden trusses with steel beam of Penrose Ferry Bridge 6 over Schuylkill River $9,290; from Latta & Roberts, Drexell Bldg., repairing Grays Ferry Bridge 10 over Schuylkill River, $5,000; and from Montgomery Iron & Steel Co., 918 West Berks St., erecting structural steel for 21st St. Bridge 269 over Philadelphia & Reading Subway $1,126.

Delaware—State Hy. Dept., Dover, May 26, improving with (**a**) stone (**b**) slag (**c**) sand asphalt (*****) metal joint (**†**) non-metal joint (**1**) 3.1 mi. Kitts Hammock Rd., Contr. 65 (**2**) 0.4 mi. Summit Bridge Approaches, Contr. CN19D (**3**) 3.91 mi. road from Delmar toward Columbia, Contr. CS51, and (**4**) 0.87 mi. Seaford Cutoff, Contr. CS52, from Smyrna Concrete Products Co., Smyrna, (**1**) $26,920; from F. W. Lovett, Newark, (**2**) $16,304; from Old Line Constr. Co., Chestertown, (**a*3**) $99,419 (**a†3**) $98,339 (**b*3**) $94,542, and (**b†3**) $93,462; from W. W. Truitt, Lincoln City, (**a4**) $22,766 (**b4**) $22,436; from Highway Eng. & Constr. Co., Selbyville, (**c4**) $18,851. Noted Apr. 29.

Maryland—Concrete paving 1.2 mi. Contr. K-30, Kent Co., from Kauffman Constr. Co., Denton, $22,332, 2.2 mi. Contr. T-24, Talbot Co., from St. Michaels Constr. Co., St. Michaels, $33,164, 0.5 mi. Contr. Ch-37, Charles Co., from H. S. Swann, La Plata, $15,227, and 1.88 mi. Contr. F-33, Frederick Co., from Poffinberger & Mause, Myersville, $40,980; graveling 2.9 mi. Contr. Sm-37, St. Marys Co., from T. Mullan, 3945 Greenmount Ave., Baltimore $22,169; macadam resurfacing 1.9 mi. Contr. Ce-57, Cecil Co., from T. P. Murray, Towson, $27,563, and 1.15 mi. Contr. F-93, Frederick Co., from Bester, Long Co., Hagerstown, $22,892. Noted May 20.

Md., Baltimore — Bd. Awards, concrete curbing and concrete paving 12,600 sq.yd. Contr. 339, from J. J. Bresnan, 311 Woodland Ave., $35,667; and sheet asphalt paving 4,500 sq.yd. Contr. 340, from P. Flanigan & Son, Harford Rd. and Baltimore & Ohio R.R. tracks. $20,633. Noted May 27.

O., Akron—Comrs. Summit Co., June 4, grading, bridging and paving 36,800 sq.yd. South Main St., from McCourt Constr. Co., 369 South Main St., rein.-con., slag $117,924 rein.-con., limestone $121,550; and from T. E. McShaffrey Constr. Co., 173 South Forge St., bituminous concrete. $133,265. Noted May 27.

O., Cincinnati—Hamilton Co., oil macadam paving 50 mi. various roads, 16 ft., from J. S. Tobitt & Co., 325 Wyoming Ave., Wyoming, $27,132. Engrs. est. $34,125.

O., Cincinnati — Comrs. Hamilton Co., June 4, from Pickelheimer & Slone, Drake Ave., Madisonville, widening and 3 in. tar bound macadam repaving, etc. 18,900 sq.yd. Drake Rd., $30,958, engrs. est. $36,348; from Standard Asphalt Co., Spring Grove

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Streets and Roads (Continued)

Ave., tar surface treating 12 mi. various roads (Woodlawn and Western Divisions), $18,638 engrs. est. $25,[illegible], and 15 mi. various roads (Eastern and Cheviot Divisions), $19,098, engrs. est. $25,538. Noted May 27.

O., Cleveland—City, May 19, improving with **(a)** brick **(b)** asphalt **(c)** concrete **(1)** Oliver Rd. **(2)** Munn Rd. **(3)** Gifford Ave. **(4)** Curran Ave. **(5)** West 47th St. **(6)** West 152nd St. (1 to 6 inclusive) involves 10,260 lin.ft. stone curbing, 7,080 cu.yd. earth excav., 15,850 sq.yd. vitr. brick, vertical fibre brick, concrete or bituminous concrete paving, etc. **(7)** East 37th St., 500 cu.yd. excav., 11,000 sq.yd. surfacing **(8)** East 171st St. and **(9)** East 172nd St. (8 and 9) involve 4,600 cu.yd. excav., 8,250 sq.yd. surfacing, 5,560 ft. stone curbing **(10)** Linn Dr., 450 cu.yd. excav., 800 sq.yd. surfacing, 590 ft. stone curbing **(11)** Havel Ave. **(12)** Canova Ave. **(13)** Gilbert Court (10 to 13 inclusive) involves 1,320 cu.yd. excav., 3,320 sq.yd. surfacing, 24,851 ft. stone curbing **(14)** Wemple Rd., 300 cu.yd. excav., 500 sq.yd. surfacing **(15)** East 22nd St., 350 cu.yd. excav., 820 sq.yd. surfacing, 500 ft. stone curbing, from Roehl Bros. Paving & Constr. Co., 7002 Denison Ave. **(1)** $12,046, **(2)** $8,010, **(3)** $30,127, **(4)** $9,439, **(5)** $6,388, **(6)** $20,007; from Enterprise Paving & Constr. Co., 8444 B'way. **(a7)** $35,310; from Cleveland Trinidad Paving Co., The Arcade **(a8)** $21,031, **(b8)** $17,460, **(c8)** $15,857, **(a9)** $22,669, **(b9)** $18,779, **(c9)** $20,709; from Gould & Maybach, 16311 Saranec Rd. **(a10)** $4,544; from Baldwin Bros., 4500 Euclid Ave **(a11)** $6,850, **(a12)** $9,641, **(a13)** $2,292; from H. G. Herring, Wayside Rd. **(16)** $3,126; from Rieley Bros., The Arcade **(15)** $5,343. Noted May 13.

O., Hamilton—Comrs. Butler Co., May 28, waterbound macadam paving, etc., Oxford-Depot Rd., Oxford Twp., from Shaw Bros. Gravel Co., Hamilton, $42,248.

Michigan—Clinton Co. (St. Johns) and Ionia Co. (Ionia) graveling 6.563 mi. A. D. 466, from L. M. Perry, Beaverton, $54,224. Noted May 20.

Michigan — State Hy. Dept. at office Comrs. Kent Co., May 27, Grand Rapids, concrete paving 1.607 mi. Federal Aid Rd. 210-A, from P. W. O'Connor, Grand Rapids, $52,986. Noted May 13.

Michigan — State Hy. Dept. at office Comrs. Kent Co., Grand Rapids, May 27, concrete paving 4.836 mi. Federal Aid 132-D, from H. C. Vanderveen, Grand Rapids, $119,250. Noted May 13.

Minnesota—State Hy. Dept., St. Paul, May 24, **(S. P. means State Project)**, grading, etc., 91,000 cu.yd. S. P. 8-33, F. A. P. 276, from Nelson, Mullen & Nelson, 355 Temple Court, Minneapolis, $43,507; and graveling 38,400 cu.yd. S. P. 6-40, Sect. 1, from S. J. Reader, 209 Kasota Bldg., Minneapolis, $23,843. Noted May 13.

Minn., Minneapolis—A. P. Erickson, aud. Hennepin Co., May 24, grading, etc., Forest Lake cutoff between Lowry Ave. and Minneapolis St., etc., and Highway 1 through New Brighton, from Morris & Daugherty, 514 Globe Bldg., St. Paul, $137,913. Noted May 13.

Neb., Falls City—M. F. Naylor, city clk., May 31, asphaltic concrete paving, etc. 43,774 sq.yd. various streets, from Western Asphalt Paving Corp., 1st and Nebraska Sts., Sioux City, Ia., $129,095. Noted May 27.

Mo., Aurora—Grading, concrete paving, etc., 10,410 sq.yd. Madison, Pleasant and avenue west of City Hall Sq., from Prince & Minton, Parsons, Kan. $26,839.

Tex., Galveston—Cold rolled asphalt and rein.-con. paving 35th St. from Bway. to Seawall Blvd., from H. J. Hetkes, 3110 Ave. T, $74,000.

Tex., Galveston—C. C. Washington, engr., May 20, Bates type concrete paving, etc., 5.003 mi. Highway 6, Federal Aid Project 466-G, 20 ft., from J. P. Foty, Wichita Falls, $197,599. Engrs. est. $225,000, incl. engineering and contingencies. Noted May 20.

Tex., Liberty—Liberty Co., Bates type section rein.-con. paving 13.8 mi. State Highway 3, Federal Aid Project 352, Unit 5, from Hansen-Pearce Constr. Co., Pryor, Okla., $323,049. Engrs. est. $400,000, incl. engineering and contingencies.

Oklahoma—State Hy. Dept., Oklahoma City, concrete paving 26,400 sq.yd. road west of Okmulgee, State Aid Project 139-A, Okmulgee Co., from Hanson & Pierce, Blackwell, $54,119.

Nevada—State Hy. Dept., Carson City, surfacing, etc., 7.57 mi. Sparks-Hafed Rd., Route 1, Sects. B-4 and B-2, Washoe Co., from Nevada Rock & Sand Co., Reno, without alternate $35,660, and with alternate $39,160. Noted May 20.

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Calif., Los Angeles — Supervs. Los Angeles Co., May 29, from Pearson & Dickerson, Loring Bldg., Riverside, improving El Monte St. between Covina Blvd. and Peck Rd., etc., 26,018 cu.yd. excav. and borrow at $0.40 per cu.yd., 584,809 sq.ft. 6- to 8-in. concrete paving 10,911 sq.ft. 8 in. concrete paving $0.10, etc., total $69,969. Noted May 13.

Calif., Los Angeles—Bd. Pub. Wks., curbing, guttering and 28,262 sq.ft. 5 in. concrete and 102,509 sq.ft. Willite paving, etc. Cabrillo Ave., from Griffith Co., Railway Bldg., approximately $45,750; 8 in. concrete paving, grading, 542,757 sq.ft. Florence Ave., from G. H. Oswald, 366 East 58th St., approximately $234,055; also grading, concrete and asphaltic concrete paving, etc. Grand View St., from H. A. McCray, 1701 Morton St., $26,005.

Calif., Los Angeles—Bd. Pub. Wks., curbing, sidewalks, grading, willite on asphaltic concrete paving, etc. 102,509 sq.ft. Rosanna St., from Spencer & Holt, 402 Frost Bldg., $66,900; also asphaltic concrete on concrete paving, etc. 24,221 sq.ft. Florence Ave. from South Park and Vermont Sts., from G. H. Oswald, 366 East 58th St., $233,930. Noted June 3.

Calif., San Diego—Common Council, June 1, from D. H. Ryan, Spreckels Bldg., improving University Ave., 39,085 cu.yd. excav. at $0.35 per cu.yd., 359,988 sq.ft. 5 in. concrete paving $0.176, etc., total $132,641. Noted May 20.

Calif., San Diego—Common Council, May 24, from J. Hansen, 413 Bancroft Bldg., improving Woolman Ave., 10,125 lin.ft. concrete curbing at $0.67 per lin.ft., 358,124 sq. ft. 5 in. concrete paving $0.184, 49,337 sq.ft. concrete sidewalk $0.193, etc., total $93,914. Noted May 13.

Contracts Awarded

Maine—State Hy. Comn., Augusta, grading, concrete paving, etc., highway in Waterville, to Green & Wilson, Waterville, $15,157, in North Kennebunk and Bradford, to A. Susi & Co., 12 Richfield St., Dorchester, Mass., $399,491, in Wells-Kennebunk, to Bruno & Pelitti, 18 Tremont St., Boston, Mass., $154,389, and in Trenton and Welsworth, to McCabe & Grovanni, Inc., 20 Central St., Boston, Mass., $197,144; granite block paving 4,170 sq.yd. Cross St. in Portland, to R. Kennedy Co., Portland, $16,758, and 1,100 sq.yd. same street, to Gulliver & Co., 120 Exchange St., Portland, $8,945. Grand total $791,884. Noted June 3.

New Hampshire—State Hy. Dept., Concord, to T. Meloy, Gorham, graveling 0.48 mi. Highway 200, in Randolf $10,220, and bituminous macadam paving 0.9 mi. Highway 231, in Whitefield, $19,938, to Arborio Constr. Co., 408 Main St., Hartford, Conn., 0.95 mi. Highway 215, in Rochester, $25,650, graveling 0.76 mi. Highway 220 in Lancaster $15,401, and 1.35 mi. Highway 220 in Pinkham Notch, $29,300; to Winslow & Cummings, Nashua, rein.-con. paving 1.35 mi. Highway 220, in Exeter and Stratham, $56,085; and to Ames Constr. Co., Somersworth, 24 ft. span deck girder bridge and approaches on Highway 207, in East Kingston, $5,798. Grand total $162,393. Noted May 20.

Massachusetts—Dept. Pub. Wks., Boston, bituminous macadam paving 4,500 ft. highway in Sandwich, to Washburn & Sheridan Constr. Co., East Taunton, $18,804, 1,500 ft. in Avon, to Powers, Taurasi & Rush, Inc., 139 Federal St., Boston, $8,537, and 1,900 ft. in Medfield, to O. Menci, 27 Martinavk St., Peabody, $10,782; also rein.-con. paving 15,300 ft. in Dartmouth, to Greeney & Sherry, Fall River, $279,366. Grand total $317,489. Noted June 3.

Mass., Lowell — Asphalt paving various streets, to A. Pallotta, Dracut, $50,100. Noted May 27.

Mass., Newton (Ind. br. Boston)—Stone, concrete and bituminous macadam paving walks and driveways on various streets, to O. A. Theurer, Watertown St., $54,034.

Connecticut—State Hy. Dept., Hartford, to J. Mascotti, Torrington, rein.-con. paving 15,077 ft. highway in Windham $84,001 and 6,601 ft. in Rocky Hill $37,876 also bituminous macadam paving 6,667 ft. in Trumbull and Bridgeport $33,649; to C. W. Blakeslee & Sons, Waverly St., New Haven, rein.-con. paving 34,572 ft. in West Haven, Orange and Milford, $351,742; to D. Arrogoni, Middletown, native stone macadam paving 3,000 ft. in Saybrook $17,331 and trap rock macadam paving 4,559 ft. in Guilford $27,360; to Silliman & Godfrey, 133 Admiral St., Bridgeport, rein.-con. paving 5,570 ft. in Fairfield $59,625, and 3 in. asphalt on 8 in. concrete paving 8,809 ft. in Greenwich $107,892. Grand total $719,476. Noted May 13.

New York — A. W. Brandt, comr. Highways, Albany, **(e. e. means engineers estimate)**, constructing 4.2 mi. Highway 5711, East Galway-Saratoga Rd., Part 2, Saratoga Co., to M. C. Tryon, Herkimer, $155,894 e. e. $199,001; 7.52 mi. Highway 1731, New Berlin-Leonardsville Rd., Part 1, Chenango Co., to Parlor City Constr. Co., Binghamton, $359,997 e. e. $514,815; and 5.34 mi. Highway 8247, Red Creek-South West Oswego Rd., Parts 1 and 2, Cayuga Co., to F. W. Forness, Jr., 438 North Union St., Olean, $230,546 e. e. $290,118. Grand total $746,437. Noted June 3.

N. J., Newton—Sussex Co., grading and concrete paving 2 mi. Sparta-Lafayette Rd., Sparta Twp., to F. H. Clement, Bethlehem, Pa., $41,991. Noted May 6.

N. J., Trenton—Mercer Co., concrete paving ¾ mi. Yardville-Allentown Rd., to Union Paving Co., 30th and Locust Sts., Phila., Pa., $138,677; and widening Washington Crossing-Pennington Rd., to T. J. Constr. Co., New Brunswick, $22,692. Noted May 27.

Pennsylvania—State Hy. Dept., Harrisburg, **(A. means Application and R. means Route)**, grading and rein.-con. paving 6.227 sq.yd. R. 106, A. 3964, Tioga Co., to D. L. Dennis, Galeton, $28,781; 26,783 sq.yd. A. 3754, Allegheny Co., to D. W. Challis & Sons, Inc., Sewickley, $133,763; 16,452 sq. yd. R. 80, As. 4001 and 3934, Mercer Co., to J. McCarty Constr. Co., Kaukauna, Wis. $69,673; 23,481 sq.yd. R. 12, A. 4001, Susquehanna Co., to E. V. Chappell, 27 Wall St., Binghamton, N. Y., $96,924; 22,520 sq.yd. A. 3567-3984, Westmoreland Co., to Cooper Constr. Co., Clymer, $137,906; 40,996 sq.yd. R. 278, A. 3831, Beaver Co., to F. F. Hallan & Son, Fairmount, W. Va., 80,071 sq.yd. R. 115, A. 3797 and 3624, Beaver Co., to R. L. Bonham Co., Bridgeton, N. J., $351,908; 105,562 sq.yd. R. 41, A 3253, Adams and Cumberland Counties, to H. W. Horst Co., Rock Island, Ill., $433,877; and 27,786 sq.yd. R. 214, Sect. 1, Clarion Co., to Russell Bros., Youngstown, O., $105,394. Noted May 6.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, improving York Rd., Chelton and 65th Aves., to J. J. McHugh, 1617 Race St., $213,355. Noted June 3.

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, grading, etc., for South Phila. track elevation, Contr. 210, to G. F. Dobbin, 1020 South 47th St., $289,950.

Pa., Washington — Comrs. Washington Co., concrete paving, etc. 7,920 ft. Burgattstown-Eldersville Rd., to Hardy & Rankin, Canonsburg, $58,374; 8,518 ft. Old Washington-Williamsport Pike, to W. K. Reed & Co., Waynesburg, $52,338; also 8,076 ft. Cannonsburg-Thomas Rd., and 8,584 ft. Beallsville-Zollarsville Rd., to J. Hord, Washington, $53,337 and $47,189 respectively. Grand total $211,238. Noted May 13.

Md., Baltimore — Bd. Awards, concrete paving footways listed in Footway Contr. 120, to Arundel Constr. Co., Knickerbocker Bldg., $31,826; and sheet asphalt paving 7,400 sq.yd. Contr. 337, to Amer. Paving & Constr. Co., Montebello Ave., $31,834. Noted May 27.

Md., Baltimore—Baltimore Co., concrete paving 1.21 mi. Group 8, to H. T. Campbell & Sons Co., Towson, $41,184. Noted May 27.

W. Va., Morgantown — Magnolia Co., amiesite surfacing 5.3 mi. Crossroads-Fairview Rd., 16 ft., and asphalt surfacing 5.5 mi. Wadeslawn Rd to Gilbert Constr. Co., Austin, $185,296 and $211,797 respectively. Noted Apr. 22.

North Carolina—State Hy. Comn., Raleigh, clearing, grubbing, grading, etc., 13.59 mi. Project 669, Rowan Co., to Atlantic Paving Co., Salisbury, $59,775, 11.55 mi. Project 244, Jones Co., to Chandler & Gregory, Virgilina, Va., $81,476, 10.5 mi. Project 398, Robeson Co., and clearing, grubbing, grading, topsoiling, etc., 14.77 mi. Project 165, Northampton Co., to Jamison Bros., High Point, $41,733 and $130,119 respectively, 8.34 mi. Project 135, Halifax Co., to C. E. Hill & Son, Apex, $65,250; grading, plain concrete paving, etc., 9.04 mi. Project 1280, Edgecombe Co., and 10.18 mi. Project 1993, Wilson Co., to Zeigler Bros., Greensboro, $237,335 and $242,378 respectively, 6.04 mi. Project 6690, Rowan Co., to Brown Paving Co., Lexington, $168,504, and 6.99 mi. Project 756, Stokes Co., to L. L. Tindall, Waterford, Wis., $170,760; grading, sand asphalt paving, etc., 14.53 mi. Project 307, Bladen Co., to Blythe Bros., Brevard Court, Charlotte, $273,700. Grand total $1,507,730. Noted May 20.

Ga., Atlanta — Sheet asphalt paving 948 sq.yd. Beckwith St., to C. A. Pittman, 12 Elizabeth St., at $2.07 per sq.yd.; vibrolithic paving 2,414 sq.yd. Harte St., to Jamison & Hollowell, Candler Bldg., $2.07; and 7,084 sq.yd. Irwin St., to S. Finley, 212 West North Ave., $1.98.

Streets and Roads (Continued)

Ga., Eastman—M. C. Edwards, city mgr., curbing, sidewalk and 6 in. concrete paving 23,000 sq.yd. various streets, to Davis Constr. Co., 162 Means St., Atlanta, $63,-935. Noted Apr. 22.

Florida — State Rd. Dept., Tallahassee, clearing, grubbing, grading, etc., 14.2 mi. road in Seminole Co., to Lake Worth Constr. Co., Lake Worth, $99,781. Noted June 3.

Fla., Tampa—City Comrs., City Hall, to J. Stanton, Tampa, 4 in. granite curbing and 2½ in. asphalt block on 6 in rock paving Impvt. 217-259 $29,500, and Impvt. 180, 188 and 192 $33,560, also 2½ in. asphalt block on 6 in. rock or shell paving Impvt. 146, 147, 148, 149, 177 and 217 $28,500. Grand total $91,560. Noted Mar. 4.

Alabama—State Hy. Comn., Montgomery, **(e. e. means engineers estimate)**, to J. B. Turner, Columbiana, grading 18.33 mi. Cullman-Garden City Rd. on Bee Line Highway, Cullman Co., $123,322 e. e. $125,000, to L. C. Britton, Jasper, 12.06 mi. Bouble Springs-Jasper Rd., Winston Co., $124,458 e. e. $125,000, to Finnell & Toothacker, Tuscaloosa, 13.79 mi. Aliceville-Dancy Rd., Pickens Co., $66,130 e. e. $68,000, and 13.79 mi. same road, $50,837 e. e. $55,000; to C. P. Cosby, Selma, gravel surfacing 2.99 mi. Selma-Plantersville Rd., Dallas Co., $14,757 e. e. $15,000, to M. M. Bentley, Brantley, 17.52 mi. Franklin-Monroeville Rd., Monroe Co., $46,255 e. e. $50,000, to Newell Constr. Co., 3828 Ave. A, Birmingham, 13.81 mi. Tuskegee-Union Springs Rd., Macon Co., $101,524 e. e. $104,000, grading 13.81 mi. same road, $57,877 e. e. $60,000, and 17.52 mi. Franklin-Monroeville Rd., Monroe Co., $135,174 e. e. $145,-000; to Nixon & Phillips, Lineville, concrete surfacing 1.04 mi. Tuskegee-Montgomery Rd., Macon Co., $27,733 e. e. $28,000, all above roads 18 ft. wide; to McWorther & Gilbert, Alabama Power Co. Bldg., grading and gravel surfacing 1.7 mi. Athens-Decatur Rd. north end Tennessee River Bridge, 20 ft., Limestone Co., $57,131 e. e. $60,000. Grand total $805,198. Noted May 13.

Miss., Durant—Mayor and Bd. Aldermen, grading, curbing and asphalt paving various streets, to Dunn Constr. Co., Chamber Commerce Bldg., Birmingham, Ala., $61,000. Noted May 13.

Miss., Shelby—Mayor and Bd. Aldermen, grading, curbing and penetration on rolled stone paving various streets, to W. D. Banker Constr. Co., Memphis, Tenn., $34,-000. Noted Apr. 8.

Miss., Winona — Grading, curbing and concrete paving 15,000 sq.yd. streets in Paving Dist. 7, to G. W. Turner Co., Memphis, Tenn. Engrs. est. $25,000. Noted Mar. 11.

Louisiana—State Hy. Dept., Baton Rouge, graveling portion Opelousa Church Point Highway, St. Landry Parish, to G. A. Shows & Co., Lafayette $13,038, sections Lake Charles-Lake Arthur Highway, Jefferson Davis Parish, to G. B. Zigler Co., Jennings $38,250 and section New Roads-St. Francesville Highway, Point Coupee Parish, to Young & DeBritton, Zachary $10,651; also bridge near Frenchfork, on Jena Jonesville Highway, Catahoula Parish, to Meyer & Greenwald, Constr. Co., Monroe $45,210, and Intracoastal Bridge on Houma-Montegut Highway, Terrebonne Parish, to Austin Bridge Co., Linz Bldg., Dallas, Tex. $8,978. Grand total $116,127. Noted May 6, under "Streets and Roads" and May 20, under "Bridges."

La., Lafayette—For 26,000 sq.yd. concrete sidewalks on various streets to C. E. Rabalais, Bunkie, $44,255.

Ohio—Dept. Highways & Pub. Wks., Columbus, to R. Strauzer, Columbus, traffic bound macadam paving, etc., 6.5 mi. Sects. "C" and "D" Lower Salem-Jacobsburg Rd., Monroe Co. $25,270, to Blair & Kelly, North Wilton, 3.12 mi. Sects. "C" Dayton-Valley Rd., Montgomery Co. $5,150, to R. E. Van Camp, Columbus, 4.67 mi. Sect. "D" Franklin-Lebanon Rd., Warren Co. $9,010, to Crook & Sweeney, Lebanon, 4.46 mi. Sect. "B" Lebanon-Morrow Rd., Warren Co. $7,070, to Craig & Jordan, Blanchester, 4.5 mi. Sect. "G" Bethel-Chilliccthe Rd., Clermont Co $16,020, and furnishing, hauling and spreading crushed stone 4.5 mi. same road $7,600; to R. J. Au, Mansfield, concrete paving, etc., 1.249 mi. Sect. "A-1" Medina-Elyria Rd., Medina Co. $17,538, and brick (state to furnish brick) paving 0.245 mi. Sect. "A-1" Medina-Elyria Rd., Medina Co. $32,201; to W. J. and E. L. Howell, Wapakoneta, concrete paving 2.908 mi. Sect. "E" Piqua-St. Marys Rd., Miami Co., $92,-854; to Reedy Bros., Warren, waterbound macadam paving, etc., 3.365 mi. Sect. "F" Warren-Meadville Rd., Trumbull Co. $61,-788, to Putnam Constr. Co., Toledo, 5.254 mi. Sect. "C" Perrysville-Fostoria Rd., Wood Co. $87,540, also rein.-con. paving, etc., 0.463 mi. same road $32,665; to Seneca Constr. Co., Kansas, brick, incl. brick paving, etc., 0.45 mi. Sect. Upper Sandusky-Tiffin Rd., Wyandot Co. $21,308, and 0.268 mi. same road $10,613; to C. C. Schall, 518 East Beck St., Columbus, hauling and spreading gravel, 7.8 mi, Sect. "G" Zanesville-McConnellsville Rd., Muskingum Co. $2,905, 3.15 mi. Sect. "A" Lower Salem-Jacobsburg Rd., Noble Co. $2,516, 4.75 mi. Sects. "B" and "C" same road $7,354, hauling and spreading limestone 7.5 mi. Sect. "H-1" Cincinnati-Zanesville Rd., Perry Co. $4,240, 2.1 mi. Sect. "N-1" same road $1,275, also graveling 14 mi. Sects. "A," "B" and "C," Chester-Reedville Rd., Meigs Co. $26,566, to W. E. Fitzwater, New Paris, 14 mi. Sct. "Q" National Rd., Preble Co. $9,150, and 4.3 mi. Sect. "B" Greenville-New Paris Rd., Preble Co. $4,575; to Blue Bank Gravel Co., West Alexandria, furnishing, hauling and spreading gravel on 6.32 mi. Sects. "D" and "Gratis" Eaton-Middletown Rd., Preble Co. $10,400, and 8.2 mi. Sectts. "E" and "F," same road $12,995; to F. H. Beckler, Athens, grading, etc., 3.559 mi. Sect. "M" Lancaster-New Lexington Rd., Perry Co. $59,950; to C. H. Dunn, Mt. Orab, grading, paving, etc., 4 mi. Sect. "A" Williamsburg-Owensville Rd., Clermont Co., $7,246. Grand total $574,795. Noted May 6.

O., Akron—W. F. Peters, dir. Pub. Serv., **(e. e. means engrs. est.)** grading, curbing, walks and vitr. brick paving 2,230 sq.yd. Oberlin St. et al., to Hollinger & Davidson, 435 South Bway., $15,776, e. e. $17,900; grading, walks and cindering 400 cu.yd. Sheck St., to H. G. Baltes, 883 Bloomfield Ave., $5,628, e. e. $6,600 also 725 cu.yd. Hunt St., to Guran & Brancich, 429 Mathews St., $3,978, e. e. $4,900. Grand total $25,382. Noted May 20.

O., Akron—W. F. Peters, dir. Pub. Serv., grading, curbing, walks and asphalt paving 13,260 sq.yd. Inman St., to T. E. McShaffrey Constr. Co., 173 South Forge St., $79,-001. Engrs. est. $101,000. Noted Feb. 25.

O., Akron—Summit Co., improving 4 mi. Kenmore-Mogadore Rd. from Thomastown to Canton Rd. at Springfield Center, 16 ft., to C. F. Wilmore, Middletown, $113,942. Engrs. est. $110,000.

O., Bexley (Columbus P. O.)—S. W. Roderick, village clk., to A. W. Burns & Co., 316 South High St., Columbus, asphalt paving, etc. 1,700 sq.yd. Ardmore Rd. $12,-656, and 1,700 sq.yd. Cassingham Rd. $11,-020; to Yale Avenue Constr. Co., 146 Yale Ave., Columbus, 1,000 sq.yd. Cassady Rd. $4,816, 760 ft. Ruhl Ave., 24 ft. $10,894, 3,100 sq.yd. Columbia Ave. $19,371, 3,100 sq.yd. Drexel Ave. $19,433, 9,600 sq.yd. Stanwood Rd. $44,623, and 9,125 sq.yd. Chelsea Ave. $32,056. Grand total $154,-869. Noted May 13.

O., Canton—Stark Co., **(e. e. means engrs. est.)** graveling, etc. 3 mi. Brewster-Canal Fulton Rd., and brick paving with combination curb and base 2 mi. Canton-Lisbon Rd., to E. O. Vogt Paving Co., Massillon, $49,998 and $102,034 respectively, e. e. $50,-000 and $100,000 respectively; slag paving, etc. approximately 1 mi. Substation-Plain Center Rd., to Wise Bros. Co., 1126 11th St. N. W., $26,943 e. e. $25,000; brick paving with combination curb and base 0.64 mi. Raff Rd., to H. Corl, 809 7th St. N. W., $31,627, e. e. $30,000. Grand total $210,602. Noted Feb. 18.

O., Canton—Brick paving Park Ave. S. W. from Tuscarawas St. to 2nd St. S. W., to H. Corl, Canton, $26,048, engrs. est. $25,-000; asphalt paving McKinley Ave. N. W., from Tuscarawas St. W. to 6th St. N. W. and 4th St. N. W. from Market to McKinley Ave. N. W., to Garaux Bros. Co., Massillon Rd. $62,823, engrs. est. $60,000; widening and resurfacing Walnut Ave. N. E. from Tuscarawas St. E. to 6th St. N. E., to Superior Asphalt Paving Co., Canton, $40,086, engrs. est. $40,000. Grand total $128,957.

O., Canton — Bd. Control, brick paving 14th St. N. E., from Harrisburg Rd. to Gibbs Ave. N. E., to Canton Sand & Gravel Co., Clarendon Ave. S. W., $41,563. Engrs. est. $40,000. Noted Feb. 11.

O., Cincinnati—Director Pub. Wks., curbing, sidewalks and granite block paving 2,660 sq.yd. Sycamore St., to Henkel & Sullivan, 105 Bell Blk., $24,655. Engrs. est. $29,006. Noted May 6.

O., Cincinnati—Hamilton Co., tar bound macadam repaving 17,900 sq.yd. Eagle Creek Rd., to J. A. Nickoson, Sayler Park Station, $49,663. Engrs. est. $51,115. Noted May 20.

O., Columbus—W. H. Duffy, dir. Pub. Serv., to Franklin Asphalt Paving Co., 209 South High St., asphalt widening 952 ft. Chestershire Rd., 24 ft. $13,617, 1,544 ft. Roys Ave. $13,482, and 1,190 ft. Wilshire Rd., 26 ft. $13,938; to Cleveland Trinidad Paving Co., 55 East State St., 1,460 ft. Eureka Ave., 24 ft. $20,943, 1,460 ft. Park Ave. $23,110, 2,720 ft. Terrace Ave. 26 ft. $34,329; to R. J. Dienst, 209 South High St., Michigan Ave., 60 ft. $1,755; to A. W. Burns Constr. Co., 316 South High St., 1,359 ft. Mooberry St., $17,378; and to B. F. Patterson, 1214 Neil Ave., 475 ft. Wright Ave., 24 ft. $5,374. Grand total $143,926. Noted May 6.

Ind., South Bend — Asphaltic concrete paving, etc. Grant and Phillipa Sts., to Keith-Riley Constr. Co. & Williston Constr. Co., South Bend, $33,080; also Brookfield Ave. from Washington St. to Lincolnway, to Williston Constr. Co., South Bend, $42,593.

Mich., Detroit—To Detroit Asphalt Paving Co., 909 Transportation Bldg., sheet asphalt paving 4,370 sq.yd. Dickerson Ave. from Campfield to Warren Aves., $17,343, 23,350 sq.yd. Dickerson Ave. from Warren to Harper Aves., $86,246, 6,840 sq.yd. Warren Ave. $25,346, 3,930 sq.yd. Berkshire Rd. $15,517, 4,080 sq.yd. Chatsworth Ave. $16,186, 4,030 sq.yd. Gray Ave. $16,000, 3,770 sq.yd. Mt. Olivet Ave. $16,180, 7,960 sq.yd. Charest Ave. $32,650, 9,360 sq.yd. Fairport Ave. $37,047, 945 sq.yd. Delta Ave. $4,378, 28,210 sq.yd. Meyers Ave. $102,849, 10,600 sq.yd. Intervale Ave. $42,-049, 1,770 sq.yd. Cherrylawn Ave. $6,984, 1,870 sq.yd. Cloverlawn Ave. $6,846, concrete curbing 1,640 sq.yd. Kentucky Ave. $6,197, 1,715 sq.yd. Northlawn Ave. $6,407, 1,810 sq.yd. Indiana Ave. $6,688, 1,570 sq. yd. Greenlawn Ave. $5,825, 1,870 sq.yd. Cloverdale Ave. $6,952, 1,625 sq.yd. Wisconsin Ave. $6,197, 1,580 sq.yd. Roselawn Ave. $5,846, and 1,615 sq.yd. Ohio Ave. $6,115; to Cooke Asphalt Paving Co., 1260 Penobscot Bldg., 2,420 sq.yd. Keystone Ave. $10,382, 2,020 sq.yd. Moenart Ave. $8,769, and 4,960 sq.yd. Eureka Ave. $12,188. Grand total $507,187.

Mich., Detroit—To Cooke Asphalt Paving Co., 1260 Penobscot Bldg., 3½ in. sheet asphalt on 8 in. concrete paving 11,610 sq.yd. Houston Ave. $44,451, and 9,350 sq.yd. Westphalia Ave. $36,685; to Detroit Asphalt Paving Co., 909 Transportation Bldg., 861 sq.yd. Burnside Ave. $3,953, 3,950 sq. yd. Caldwell Ave. $16,382, 3,950 sq.yd. Bloom Ave. $16,515, 2,640 sq.yd. Morley Ave. $11,186, 2,700 sq.yd. Beechdale Ave. $11,442, 2,400 sq.yd. Dayton Ave. $10,387, 2,390 sq.yd. Smart Ave. $10,240, 6,125 sq.yd. Birwood Ave. $24,281, 1,200 sq.yd. Meadowbrook Ave. 5,545, 4,080 sq.yd. Nottingham Rd. $16,301, 3,930 sq.yd. Alma Ave. $15,772, 3,910 sq.yd. 51st St. $16,929, 2,530 sq.yd. 52nd St. $10,879, and 23,000 sq.yd. Connors Ave. $83,442; to Cleveland Trinidad Paving Co., 402 Hammond Bldg., 8,170 sq.yd. Northlawn Ave. $32,519, 4,080 sq.yd. Dexter Ave. $16,301, 4,080 sq.yd. Petoskey Ave. $16,376, and 2,000 sq.yd. Quincy Ave. $7,323; to Dept. Pub. Wks., City Hall, 13,800 sq.yd. French Rd. $47,620. Grand total $454,529.

Mich., Ecorse — I. Morris, village clk., curbing and concrete paving 44,000 sq.yd. West Jefferson Ave., to G. R. Cooke, 1260 Penobscot Bldg., Detroit, about $174,500. Noted May 20.

Mich., Fordson—To White Constr. Co., 1548 Buhl Bldg., Detroit, curbing, 8 in. concrete paving, etc., Assessment Dist. 121 $19,056, Dist. 122 $42,863, Dist. 123 $44,-321, Dist. 124 $39,961, and Dist. 126 $29,-609. Grand total 175,810. Noted June 3.

Mich., Grand Haven—Concrete paving 1½ mi. Fruitport Rd., Muskegon-Ottawa Co. line to Spring Lake Rd., to J. R. Edelman Co., East Isabella Ave., Muskegon, $31,750. Engrs. est. $75,000.

Mich., Holland—Grading and sheet asphalt paving 2⅞ mi. various streets, to K. B. Olsen, Ludington, $105,554. Noted Mar. 25.

Mich., Wayne—I. K. Comer, village clk., concrete curbing and concrete paving 80,000 sq.yd. Michigan Ave. and various streets, to Edwards Asphalt Paving Co., Hamilton, O., $263,800. Noted May 20.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete surfacing Route 2, Sect. 73-X, La Salle Co., to H. Zolper & Sons, Mendota $14,850, Route 18, Sect. 22-X, La Salle Co. and Route 1, Sect. 15-W, Lawrence Co., to D. L. Alumbaugh, Sullivan Ind. $14,005, Route 25, Sect. 16-X, Coles Co., to James & Shinn Co., Mattoon $2,520, Route 3, Sect. 49, Greene Co., to Nelson Constr. Co., Jerseyville $24,940, Route 9, Sect. 27, Fulton Co., to Hartman-Clark Bros., Peoria $27,311, and Route 36, Sect. 17, Pike Co., to E. J. Eiff Co., Quincy $96,214; grading Corperas Creek Lock Rd., Sect. 1, Fulton Co., to C. E. Bradbury, Canton, $66,036. Grand total $245,876. Noted Apr. 29 and May 13.

Ill., Chicago—Cook Co. Hy. Dept., County Bldg., concrete surfacing 2 mi. Burnham Ave. and 1.5 mi. 154th St., to States Impvt. Co., 160 North La Salle St., $86,389 and $73,015 respectively; 2 mi. Michigan City Rd., to J. Mackler Co., Chicago Heights, $91,490; Harlem Ave. from 111th to 143rd

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Streets and Roads (Continued)

Sts., to J. O'Keefe, 7854 South Ashland Ave. $197,117; Harlem Ave. from 79th to 111th Sts., to Chicago Heights Coal Co., Chicago Heights, $163,000; 3.75 mi. Elmhurst Rd., to F. E. Herdman, Libertyville, $166,506; 1 mi. Walters Ave., to Central Paving Co., 179 West Washington St., $44,398; and 3 mi. 131st St., to A. Ward, Homewood, $155,207. Grand total $977,122. Noted May 27.

Ill., Forest Park—Rein.-con. paving 20,000 sq.yd. Harlem Ave. from Madison to 16th Sts., to H. Golitz, Jr., Oak Park, $101,000.

Wisconsin — State Hy. Comn. of Kewaunee Co., Office 3, Nicolet Bldg., Green Bay, **(F. A. P. means Federal Aid Project)**, to H. Boulanger, Casco, crusher stone surfacing 3,592 cu.yd. F. A. P. 435-D $15,931, graveling, etc., 4,071 cu.yd. State Job 3012, Kewaunee Co. $19,435, and grading, etc., Oconto-Marinette Rd., F. A. P. 392-B, Marinette Co. $9,737; to Cherney Constr. Co., Francis Creek, graveling, etc., 5,280 cu. yd. F. A. P. 432-A, Manitowoc Co. $57,905; to R. B. Vickery & Co., Big Suamico, crushed stone surfacing, etc., 4,848 cu.yd. F. A. P. 435-A, Outagamie Co., $18,017; and to Kramp Constr. Co., Berlin, concrete paving, etc., 88,283 sq.yd. F. A. P. 394-B, Wood Co., $234,833. Grand total $355,858. Noted May 6.

Wisconsin—H. W. Vroman div. engr. for State Hy. Dept., Milwaukee, concrete paving, etc. Fond du Lac-Banner Rd., Federal Aid Project 427-A, Fond du Lac Co., to Peppard, Burrill & Lynch, 4441 5th Ave. S., Minneapolis, Minn., $157,854; and Whitewater-Richmond Rd., State Project 2667, Walworth Co., to Whitewater Bridge Co., Whitewater $103,377.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., concrete paving etc. 10 alleys, to C. H. Slattery, 584 71st Ave. $47,225; 3 alleys, to F. Hilderbrand, 1042 23rd Ave., $24,631; 1 alley, to A. E. Retzlaff, 868 Island Ave., $1,078; and 1 alley, to Schwerm Bros., 50 Lee St., $1,315. Grand total $77,249.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., to White Constr. Co., 68 Wisconsin St., asphalt paving and resurfacing Grove St. $4,879, Oregon St. $20,470 and Park St. $4,552; and to Badger Constr. Co., 97 Wisconsin St., Layton Blvd. $26,222, and State St. $2,011. Grand total $58,134. Noted May 20.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., concrete paving 4 alleys, to Schwerm Bros., 50 Lee St., $64,298; 4 alleys, to Froemming Bros., 1326 Humboldt Ave., $28,071; 1 alley each, to Bode-Mann Constr. Co., 691 48th St. $2,667, and Lex Constr. Co., 446 68th Ave. $1,839. Grand total $96,875.

Wis., Seymour—B. G. Dean, city clk., to Garvey & Weyenberg, 807 College Ave., Appleton, improving Main St., 9,534 sq.yd. vibrolithic concrete paving at $2.73 per sq. yd., 4,257 cu.yd. grading $0.95, and 3,140 ft. concrete curbing $0.32. Noted May 20.

Wis., Tomahawk—H. G. Bell, city clk., rein.-con. paving, etc. 37,060 sq.yd. 5th St., Tomahawk and Wisconsin Aves., to C. Lotz, 1016 Grand Ave., Wausau, at $1.22 per sq.yd. Former contract rescinded. Noted Apr. 22.

Wis., Wauwatosa—Bd. Pub. Wks., A. V. Brigham, secy., rein.-con. paving, etc. Berwyn and Woodland Aves., to Parkinson Constr. Co., 322 27th St., Milwaukee, $23,805. Engrs. est. $25,000. Noted May 6.

Ia., Cedar Rapids—Linn Co., improving 10.5 mi. County Road 14, 104,086 cu.yd. excav., 115,557 sta.yd. overhaul, etc., to J. Herbert & Sons, Marshalltown, $37,083; 5.87 mi. road southeast of Marion, 79,770 cu.yd. earth and 1,500 cu.yd. rock excav., 42,000 sta.yd. overhaul, etc., to Clark, Kearney & Stark, Decorah, $33,899; and 7.74 mi. Fairfax Rd., 87,834 cu.yd. excav., 68,700 sta.yd. overhaul, etc., to G. H. Lowe, Slayton, Minn., $30,183. Grand total $101,165. Noted Apr. 8.

Ia., Iowa City—Grading, curbing and concrete paving 31,000 sq.yd. various streets, to W. Horrabin Constr. Co., Iowa City, $87,600. Noted May 13.

Ia., Jefferson—Greene Co., improving 16.5 mi. Projects 10, 11, 12, 16 and 17, incl. 16,800 cu.yd. graveling, etc., to W. L. Joy, Grand Junction; and 7 mi. Project 18, 3,000 cu.yd. graveling, etc., to J. R. Paul, Jefferson. Noted Apr. 29.

Ia., Marion—Linn Co., to T. N. Carnall, Oelwein, improving road, 16,116 cu.yd. excav. 1 mi. haul at $0.379 per su.yd., and 98,994 units ½ mi. haul $0.079; to H. Herbert & Sons, Marshalltown, Federal Aid Project 230-D, 71,980 cu.yd. excav. $0.24, and 1,700 cu.yd. excav. $0.27, etc.; to McGuire Bros., Forest City, Federal Aid Project 229-I, 41,695 cu.yd. excav. $0.29, $0.32 and $0.35, etc.

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Ia., Orange City—Sioux Co., improving various roads, 94,615 cu.yd. excav., 1,890 ft. 18 in. and 268 ft. 24 in. culvert labor, to G. W. Condon, 514 Federal Reserve Bldg., Omaha, Neb., $25,301; 1 pony truss bridge, to Humphrey & Sons, Cherokee $9,345, and 1 pony truss bridge, to Wickes Eng. & Constr. Co., 1441 Bluff St., Des Moines, $7,524. Grand total $42,170.

Ia., Ottumwa—Grading, curbing and concrete paving 33,000 sq.yd. various streets, to C. F. Lytle Constr. Co., Trimble Bldg., Sioux City, at $1.95 per sq.yd. Noted May 27.

Ia., Sibley — Osceola Co., grading 7 mi. roads in Viola Twp. and 5.5 mi. in Horton Twp., to O'Hanlon & Reilly, Omaha, Neb. $17,324, and 2 mi. Cloversdale Rd., to S. Chase $2,519; concrete culvert pipe, to Sibley Cement Co., Sibley, $2,130; concrete culverts and bridges, to Graves Bros., Melvin, $15,904; culverts, to A. H. Hattenforf, Ocheyedan, $2,796. Grand total $40,673. Noted Apr. 15.

Ia., Sioux City—Woodbury Co., improving Moville-Climbing Hill Rd., 80,748 cu. yd. excav., 28,612 cu.yd. channel change, and 28,231 sta.yd. overhaul, to C. F. Betz, Sioux City, $22,637; bridge work, to McCallan & Dorn, South Sioux City, Neb., $8,700. Noted May 13.

Kan., Alma — Wabaunsee Co., to J. L. Collins, Junction City, grading, etc. 6.053 mi. Federal Aid Project 292-D $27,546, one 32 ft. I-beam bridge $3,528, and one 20 ft. slab span bridge, $3,321. Grand total $34,395. Noted Apr. 24.

Kan., Concordia—Grading, curbing, guttering and 2½ in. on 4 in. brick surfacing 14,648 sq.yd. various streets, to J. B. Watts, Concordia. Noted May 13.

Kan., Manhattan — Riley Co., grading, brick surfacing, etc. 1.068 mi. Golden Belt Rd., Federal Aid Project 327-A, 24 ft., to M. R. Ammerman, 248 North Market St., Wichita, $58,479. Noted May 13.

Kan., Valley Falls—For 3 in. brick on 5 in. base paving various streets, to Taylor & Allison, Chanute, $24,366. Engrs. est. $25,000. Noted May 20.

Nebraska — Improving 5.6 mi. Federal Aid Project 45-B, Sioux Co., 5,980 cu.yd. solid rock, and 90,900 cu.yd. earth excav., also 7,560 cu.yd. top soil or clay surfacing, to S. L. Smith, Henry, $32,699; also graveling 81,800 sq.yd. Federal Aid Project 139-G, and 69,000 sq.yd. Federal Aid Project 93-A, Antelope Co., to Western Bridge & Constr. Co., 748 Peters Trust Bldg., Omaha, $28,350.

S. D., Chamberlain—Brule Co., improving 13.64 mi. Federal Aid Project 194-C, 2,284 cu.yd. rock and 131,207 cu.yd. earth excav., 47,386 sta.yd. overhaul, 566 cu.yd. concrete, and 54,263 lb. reinforcing, etc., to R. P. England, Mitchell, $48,115.

S. D., De Smet—Kingsbury Co., improving 10.78 mi. roads, 87,982 cu.yd. earth excav., 72,551 sta.yd. overhaul, etc., to Dowd Bros. & Noonan-Hyde Co., Watertown, $30,650.

S. D., Murdo — Jones Co., grading, etc. 171,030 cu.yd. Federal Aid Project 185-F, to G. W. England & Son, Murdo, $59,945.

S. D., Redfield — Spink Co., improving 12.02 mi. roads, 120,768 cu.yd. earth excav., 107,989 sta.yd. overhaul, etc., to Dowd Bros., & Noonan-Hyde Co., Watertown, $36,557.

S. D., Timber Lake—Dewey Co. improving 2.85 mi. roads, 6,621 cu.yd. rock and 55,415 cu.yd. earth excav., 7,379 sta.yd. overhaul, etc., to Northwestern Eng. Co., Kadoka, $31,868.

N. D., Bismarck—Burleigh Co., grading, etc., 9.931 mi. Red Trail Rd. from McKenzie west, to C. P. Burnstad, Burnstad, $35,184.

Mo., Aurora — Concrete paving, etc. various streets, to Prince & Minton, Parsons, Kan., $26,839. Noted May 27.

Mo., Caruthersville — Grading, curbing and 7 in. concrete paving 7th St., Walker, Highland and Cotton Aves., to H. H. Hall Constr. Co., Murphy Bldg., East St. Louis, Ill., $29,594; and tarvia resurfacing, etc., various streets, to N. W. Helm, Caruthersville, $6,100.

Mo., Springfield—To Stigall Constr. Co., Talmadge and Benton Sts., concrete paving, etc., 930 sq.yd. Florence Ave. $2,267, 2,663 sq.yd. Fulton Ave. $4,793, and 9,085 sq.yd. Division St. $20,641; also to E. V. Koch, 426 North Moffett St., improving Fort St., 4,504 sq.yd. concrete paving at $1.90 per sq.yd., and 2,485 ft. curbing $0.20. Noted Apr. 22.

Texas—H. Mosley, chn. State Hy. Comn., Austin, grading and 2½ in. bituminous macadam on sledged stone paving 7.9 mi. Highway 20 Federal Aid Project 304-B, Unit 2, 18 ft., to Womack Constr. Co., Sherman, $88,528. Engrs. est. $80,000. Noted May 20.

Tex., Cameron—State Hy. Comn., Austin, grading 15.067 mi. Federal Aid Project 494-A, Milam Co., to A. D. Buchanan, Temple, $43,827. Noted May 13.

Tex., Cleburne—Johnson Co., asphaltic concrete paving Willingham, Buffalo, South Walnut, and West Heard Sts., to West Texas Constr. Co., 504 Cotton Exch. Bldg., Ft. Worth, $103,567. Engrs. est. $110,000. Noted Apr. 29.

Tex., Dallas — Grading, curbing and guttering and asphaltic concrete paving 3,761 sq.yd. Lancaster Ave., to Smith Bros., Santa Fe Bldg., $49,584.

Tex., Dallas—Grading, curbing, guttering and warrenite bitulithic paving 7,765 ft. Oak Cliff Blvd., 20 and 30 ft., to Common Bitulithic Co. Praetorian Bldg., $56,116; also grading, curbing, guttering and vibrolite paving 4,121 ft. Floyd St., to Smith Bros., Santa Fe Bldg., $26,865.

Tex., Dallas—Paving Orange St. from Pacific to McKinney Aves., to Uvalde Paving Co., Santa Fe Bldg., $56,135.

Tex., Dallas—Paving Wooden Blvd., Williams and Murray Sts., to Uvalde Paving Co., Santa Fe Bldg., $24,206; also Lessing, Bonview and Manett Sts., to Fuller Constr. Co., Republic Bank Bldg., $27,471.

Tex., Decatur — Wise Co., grading 7.765 mi. Highway 39, State Aid Project 667, to Tibbetts Constr. Co., Joseph Bldg., Ft. Worth, $23,029; bridges on same road, to O. Speer, Alwood, $21,978. Engrs. est. $56,000. Noted May 27.

Tex., Henderson — Rusk Co., grading, bridging, etc. 4.87 mi. Highway 26-A, State Aid Project 653, to Cook & Arrington, Crockett, $29,346. Engrs. est. $30,000. Noted May 27.

Tex., Houston—Harris Co., rock asphalt repaving Milam St. from Polk to Hadley Aves., to Uvalde Rock Asphalt Co., 829 Bankers Mortgage Bldg., $71,242. Engrs. est. $75,000.

Tex., Palestine—Anderson Co. (Palestine) and Freestone Co., (Fairfield), grading 2 mi. Highway 43, Federal Aid Project 453-D, to Thomas & Ratliff, Rogers, $26,000.

Tex., Sweetwater—Asphaltic macadam paving 33,920 yd. various streets, to Burke & Corbett, Stephenville, at $1.61 per yd. Noted May 6.

Oklahoma — State Hy. Dept., Oklahoma City, **(F. A. P. means Federal Aid Project, S. A. P. means State Aid Project and e. e. means engineers estimate)**, to Hamilton Constr. Co., Bartlesville, grading, etc. 24.76 mi. Tahlequah-Kansas Rd., Cherokee Co., 109,310 cu.yd. earth and 17,400 cu.yd. rock excav., etc., $81,520 e. e. $90,000, and 7 mi. Bartlesville-Nowata Rd., Nowata Co., $31,532 e. e. $35,000, to Wiggins & Co., Hass Bldg., Oklahoma City, F. A. P. 145-B, Comanche Co., 23.64 tons reinforcing, etc. $16,533 e. e. $25,000, and F. A. P. 146-E, Stephens Co., 30.45 tons reinforcing, 57.42 tons structural steel, 6,450 ft. wood piling, etc., $35,453 e. e. $40,000, to J. E. Smith, Noble, F. A. P. 145-C, Comanche Co., 25.25 tons reinforcing, etc., $15,939 e. e. $25,000, and F. A. P. 145-D, Stephens Co., 25.81 tons reinforcing, etc., $15,844 e. e. $25,000, to E. S. Alderman, 1614 West 39th St., Oklahoma City, 5 mi. F. A. P. 145-A, Comanche Co., 26.46 tons reinforcing, etc., $15,394 e. e. $25,000, to National Constr. Co., Lawton, F. A. P. 145-E, 46 tons reinforcing, 19.55 tons structural steel, 1,188 ft. wood piling, 14,705 ft. oak flooring, etc., $23,622 e. e. $25,000, to Taylor & Younger, Blanchard, 7.783 mi. road east of Marland, F. A. P. 146-B, Stephens Co., 39,019 cu.yd. earth, and 2,520 cu.yd. rock excav., 8,235 cu.yd. borrow, 27,687 units overhaul, 16.48 tons reinforcing, etc., $22,928 e. e. $25,000, to Ellis & Lewis, Muskogee, 5 mi. F. A. P. 192-B, 26,087 cu.yd. earth and 1,111 cu.yd. rock excav., 2,683 cu.yd. borrow, 16,565 sta. yd. overhaul, 8.79 tons reinforcing, etc., $18,791 e. e. $25,000, 5 mi. F. A. P. 192-C, 26,918 cu.yd. earth and 5,089 cu.yd. rock excav., 3,490 cu.yd. borrow, 17,948 units overhaul, 8.32 tons reinforcing, etc., $15,555 e. e. $25,000, and gravel surfacing 3.75 mi. S. A. P. 141-F, 6,943 cu.yd. gravel, etc., $16,454 e. e. $25,000, all Nowata Co.; to Gibson & Mitchel, Pauls Valley, grading andn concrete surfacing 0.051 mi. S. A. P. 216, Pontotoc Co., 2,482 cu.yd. excav., 27,013 lb. reinforcing, 8,702 sq.yd. concrete, etc., $18,918 e. e. $25,000. Grand total $328,483.

Okla., Rush Springs—City Clerk, grading and concrete paving 6,950 sq.yd. Blakeley Ave., to Gibson & Mitchell, Pauls Valley, $20,342. Noted May 20.

Wash., Port Angeles—Clallam Co., grading 5.5 mi. Olympic Highway between Elwha River and Lake Sutherland, to J. Allen Eng. Co., Olympia, $80,949.

Wash., Yakima—Concrete paving, etc., North 2nd Ave., North 6th and West C Sts., to Hardy & Richings, Yakima, $67,264. Noted Apr. 29.

California—State Hy. Comn., Sacramento, concrete widening 17.3 mi. road between Whitewater River and Edom, Riverside Co., to Matich Bros., Elsinore, $103,395, engrs. est. $110,175; also four 30 ft. span rein.-

Streets and Roads (Continued)

con. girder bridge over Auburn Ravine at Lincoln, Placer Co., to Holdener Constr. Co., 2310 J St., Sacramento, $14,661, engrs. est. $14,789. Noted Apr. 22.

Calif., Beverly Hills — D. J. Firminger, city clk., curbing, guttering, walks and warrenite paving 99,583 sq.ft. Realtor Rd., and 79,057 sq.ft. Stanley Dr., to Griffith Co., Los Angeles, $26,142 and $26,425 respectively. Noted June 3.

Calif., Concord — Grading, asphaltic macadam and 6 in. concrete paving, etc. various streets, to Peres Bros., 475 10th St., Richmond, $21,957. Noted Mar. 25.

Calif., Hollister — E. Dowdy, clk. San Benito Co., asphaltic macadam surfacing approximately 5 mi. various roads, to Granite Constr. Co., Watsonville, $49,936. Noted June 3.

Calif., Lodi — Trustees, grading and Warrenite on asphaltic concrete paving Lockford and Washington Sts., to Clark & Henery Constr. Co., Chancery Bldg., San Francisco, approximately $36,000. Noted Mar. 4.

Calif., Los Angeles — Bd. Pub. Wks., improving Tujunga Ave., to Tyron & Brain, 201 Tajo Bldg., $144,523. Engrs. est. $154,574.

Calif., Los Angeles — Bd. Pub. Wks., curbing, walks, concrete paving, etc. Ventura Blvd. between Cahuenga and Vineland Way, to Tryon & Brain, Tajo Bldg., $25,173. Noted May 27.

Calif., San Diego — Common Council, improving Armada Terrace, Talbot St., etc., to J. Hansen, 413 Bancroft Bldg., $43,189. Noted Apr. 1.

Ontario—Dept. Highways, Toronto, concrete paving 5 mi highway from Clinton to Goderich, to Boss & Brazier Constr. Co., 476 Richmond St., London. Engrs. est. $140,000.

Ont., Kingston—Will pave with asphalt Brock St. $10,609, Earl St. $2,599, Union St. $19,901, also with sheet asphalt Nelson St. $5,689, and York St. $10,082, by day labor. Grand total $48,880.

Buildings—Commercial

Proposed Work

N. H., Rochester—SALES, SERVICE and COMMUNITY — Rochester Realty Co., c/o Dow, Harlow & Kimball, 184 Boylston St., Boston, archt., having sketches made 1 and 2 story and basement, 100 x 115 ft., rein.-con., Hanson, Wakefield and Autumn Sts. To exceed $150,000.

Mass., Boston—GARAGE and STORE—G. N. Meserve, archt., 49 Federal St., preparing preliminary plans 2 or more story, brick and stone, Columbus Ave. and Dartmouth St. $200,000. Owner's name withheld.

Mass., Boston — HOTEL — Boston Loan Co., A. Bornstein, 275 Washington St., having plans prepared by Silverman, Brown & Heenan, 51 Cornhill, 4 story and basement, brick, Warrenton St. $150,000.

Mass., Boston — MARKET — Uphams Corner Market Co., J. Cifrino, pres., 600 Columbia Rd., having sketches made by W. M. Bacon, 27 Kilby St., Boston, 3 story and basement, brick and stone, Columbia Rd. $150,000.

Mass., Boston—WAREHOUSE—Morgan's Inc., 755 Washington St., Boston, having plans prepared by I. Richmond, 249 Boylston St., 6 story, 67 x 140 ft., rein.-con., plain foundation, 1010 Massachusetts Ave. To exceed $150,000.

Mass., Lynn—BANK—Natl. City Bank of Lynn, A. A. Pinkham, pres., Market St., having preliminary plans prepared by C. L. Betton, 31 Exchange St., altering and constructing 1 and 2 story and basement, concrete, steel and brick addition, 134 Market St. $150,000.

Mass., Norwood—OFFICE—Town, Pub. Building Dept., having plans prepared by W. G. Upham, Bigelow Bldg., 2 story and basement, brick and stone, Manhattan, West and Market Sts. $275,000.

Mass., Plymouth — TEMPLE—Plymouth Lodge A. F. & A. M. plans brick, stone, and marble masonic temple. To exceed $150,000. Engineer and architect not selected.

Mass., Springfield—HOTEL—Oaks Hotel, 17 Thompson St., having sketches made by H. L. Stevens, 522 5th Ave., New York City, hotel, State and Thompson Sts. $450,000.

Mass., Turners Falls—THEATRE—P. D. Shea, Turners Falls, c/o J. H. McNaughton, archt., 177 State St., Boston, having preliminary plans prepared 1 story and basement, 50 x 100 ft., brick and steel theatre. $150,000.

R. I., East Greenwich — HOSPITAL — Crawford-Allen Memorial Hospital having plans prepared by York & Sawyer, 100 East 42nd St., New York City, hospital addition. $250,000.

R. I., Providence—BANK and STORE—R. M. Dobbins, Natl. Union Bldg., having preliminary plans prepared by T. J. H. Pierce, Inc., 30 Allens Ave., 2 story and basement, 60 x 80 ft., and 50 x 80 ft., concrete and brick bank and store building. $150,000.

Conn., Hartford — BUSINESS — Owners, c/o J. H. Naylor, 1 Main St., having plans prepared by Whiton & McMahon, 805 Main St., 10 story, brick and steel, Main St. $300,000.

Conn., Hartford — THEATRE — A. M. Schuman & J. Walsh, 909 Albany Ave., had plans prepared by J. Tuck, Park Sq. Bldg., Boston, Mass., brick, steel and marble, plain foundation, Farmington Ave. $350,000.

Conn., New Britain—HOTEL—M. Cohn, 7 Main St., plans 5 story, brick and steel hotel, Main St. To exceed $150,000. Engineer and architect not selected.

Conn., West Hartford (br. Hartford)—RECREATION—P. Mount, 20 Raymond Rd., having plans prepared by G. H. Matthews, 48 Campbell Ave., Hartford, 4 story and basement, 95 x 125 ft., rein.-con., brick and stone, Raymond Rd. $200,000.

N. Y., Brooklyn—APARTMENT—Owner, c/o H. Hurwitz, engr. and archt., 41 West 33rd St., New York City, having plans prepared 6 story, brick, steel and stone, plain foundation, Marcy Ave., here. $350,000.

N. Y., Brooklyn — APARTMENT — P. Runnells, c/o DePace & Juster, archts. and engrs., 8 West 40th St., New York City, having plans prepared 5 story, brick, steel and stone, plain foundation, 22nd Ave. $200,000.

N. Y., Brooklyn—APARTMENT—Rigat Constr. Co., c/o W. I. Hohauser, engr. and archt., 1400 Bway., New York City, having plans prepared brick, steel and stone, plain foundation, Ocean Ave., here. $325,000.

N. Y., Brooklyn—THEATRE and STORE—L. Nelson, 215 Montgomery St., soon takes bids brick, steel and stone, plain foundation, Utica Ave. $250,000. C. A. Sandblohm, 145 West 45th St., New York City, engr. and archt.

N. Y., Buffalo—CLUB—Town Club, 244 Delaware Ave., having preliminary plans prepared by Plumer & Mann, 792 Main St., 3 story, 120 x 250 ft. clubhouse, Delaware Ave. $300,000.

N. Y., New York—APARTMENT—Hurland Holding Corp., c/o H. Hurwitt, engr. and archt., 41 West 33rd St., having plans prepared 6 story, brick, steel and stone, plain foundation, Anthony Ave. $200,000.

N. Y., New York—APARTMENT—Stoneman Realty Corp., c/o G. G. Miller, engr. and archt., 1482 Bway., having plans prepared 6 story, brick, steel and stone, plain foundation, Park Terrace. $700,000.

N. Y., New York — CLUB — Greater Pythian Temple, M. Levy, pres., 84 5th Ave., soon takes bids 8 story, brick, steel and stone, plain foundation, West 70th St. T. W. Lamb, 644 8th Ave., engr. and archt.

N. Y., New York—CLUB—New York County Lawyers Comn., 27 Pine St., N. Conboy, chn. Building Com., plans brick, steel and stone, plain foundation, 12 Vesey St. $250,000. Engineer and architect not selected.

N. Y., New York—LOFT—Trinity Church Corp., c/o Parker & Shaffer, engrs. and archts., 280 Madison Ave., having plans prepared 12 story, brick, steel and stone, plain foundation, Varick St. between West Houston and King Sts. $2,500,000.

N. Y., New York—OFFICE—Fortieth Street & Park Ave. Corp., c/o V. C. Farrar, engr. and archt., 1 Pershing Sq., having plans prepared brick, steel and stone, plain foundation, Park Ave. and 40th St. $1,000,000.

N. Y., New York — OFFICE — Four Hundred Forty-One Forty-Three 7th Ave. Co., c/o J. C. Westervilt, engr. and archt., 36 West 34th St., having plans prepared brick, steel and stone, plain foundation, 441 7th Ave. $350,000.

N. Y., Utica — CLUBHOUSE and SCHOOL—Grace Episcopal Church, soon takes bids brick, steel and stone, plain foundation, Devereaux St. $350,000. F. B. and A. Ware, 1170 Bway., New York City, engrs. and archts.

N. Y., White Plains — OFFICE — Bd. Supervs. Westchester Co., Court House, soon takes bids 10 story, 250 x 250 ft., brick, steel and stone, plain foundation, Court St. $800,000. B. W. Morris, 101 Park Ave., New York City, engr. and archt. Noted Apr. 15.

N. J., Plainfield—HOSPITAL—Muhlenburg Hospital, 2nd Ave. soon takes bids brick, steel and stone addition, plain foundation. $500,000. Crow, Lewis & Wick, 200 5th Ave., New York City, engrs. and archts. Noted Apr. 9, 1925.

Pa., Phila. — APARTMENT — Warren Apartment Corp., c/o T. B. Lippincott & C. S. Schaef, archts., 11 South 16th St., having plans prepared 10 story and basement, 48 x 120 x 140 ft., rein.-con., brick and steel, plain foundation, 63rd and Columbia Sts. $750,000.

Pa., Pittsburgh—APARTMENT—Owner, c/o E. M. Dubold, Station St., having preliminary plans prepared by Thomas, Martin & Kirkpatrick, Cunard Bldg., Phila., 12 story and basement, irregular shaped, brick, stone and steel, Heland Ave. $325,000.

Pa., Pittsburgh — APARTMENT — Webster Hall Corp. of America, 600 Majestic Bldg., Detroit, Mich., having plans prepared by Halpin & Jewell, 1025 Hammond Bldg., Detroit, Mich., 3 story and basement, irregular shaped, brick and steel, Bayard and Melwood Sts. $500,000.

Pa., Upper Darby (Phila. P. O.) — APARTMENT—Owner, c/o W. H. Kantz, Inc., having plans prepared by Hodgens & Hill, 130 South 15th St., Phila., 1 and 2 story and basement, approximately 120 x 190 x 190 ft., rein.-con., brick and steel, plain foundation, 69th St. and Ashley Rd. $700,000.

D. C., Wash.—JAIL—Dist. Comrs., Dist. Bldg., having plans prepared by A. L. Harris, municipal archt., jail addition, 19th and C Sts. S. E. $300,000.

D. C., Wash.—WARD—Gallinger Hospital having plans prepared by A. L. Harris, municipal archt., ward building addition. $650,000.

N. C., Tryon—HOTEL—F. P. Bacon & associates, plan 100 room hotel, on Lake Lanier, near here. $400,000.

La., New Orleans—OFFICE—Huozagh & Hill, archts., 6 North Michigan Ave., Chicago, Ill., soon take bids 6 story and basement, 100 x 125 ft., rein.-con. and stone, St. Charles Ave. and St. Andrew St., here, for Pan Amer. Petroleum Corp., St. Charles and Howard Sts. $750,000. Noted Mar. 11.

O., Chillicothe—GARAGE and REPAIR SHOP—Dept. Hys. & Pub. Wks., Ohio-Hartman Bldg., Columbus, G. F. Schlesinger, highway dir., having sketches made by H. B. Briggs, Ohio-Hartmand Bldg., Columbus, 1 story, 100 x 145 ft., concrete and brick garage and repair shop, here. $75,000.

O., Cleveland—COMMERCIAL and THEATRE—Morris & Weinberg, archts., 3608 Euclid Ave. soon lets contract 1 story, 128 x 150 ft., brick, steel and concrete, 892 East 152nd St., for Virginia Theatre Building Co. $175,000.

O., Cleveland—COMMERCIAL and THEATRE—B. F. Brody, 203 Film Exch. Bldg., had plans prepared by N. Petti, Williamson Bldg., 1 and 2 story, 80 x 129 ft., brick, steel and concrete, 14225 Kinsman Rd. $150,000.

O., Cleveland—SALES and SERVICE—Motors Realty Co., c/o G. G. G. Peckham, pres., c/o Ohio Buick Co., 1903 East 19th St., soon lets contract 3 story and basement, 135 x 320 ft., brick, steel and concrete, Euclid Ave. near East 24th St. $600,000. W. S. Ferguson Co., 1900 Euclid Bldg., engrs. and archts.

O., Dayton — STORE and LOFT — I. C. Brenner & F. J. Hughes, 14 East 4th St., having plans prepared by F. J. Hughes, Inc., U. B. Bldg., 8 story, 35 x 70 ft., rein.-con. and tile, plain foundation, South Main St. $275,000.

O., Lorain — COMMERCIAL — Smith & Gerhardt, had plans prepared by Walker & Weeks, 1900 Euclid Bldg., 3 story and basement, 50 x 125 ft., brick and rein.-con. commercial building. $150,000.

Mich., Detroit — APARTMENT — R. L. Henderson, archt., 2539 Woodward Ave., prepared plans 4 story and basement, 80 x 80 ft., brick and steel, plain foundation, Burlingame and Monica Aves. $150,000. Owner's name withheld.

Mich., Detroit — OFFICE — Park Davis Co., 2951 Atwater St., having plans prepared by Smith, Hinchman & Grylls, engrs. and archts., 800 Marquette Bldg., 4 story and basement, 75 x 293 ft., rein.-con., brick and steel addition, Jos. Campau Ave.

Mich., Detroit—Y.M.C.A., A. G. Studer, genl. secy., Adams Ave., having plans prepared by Burrowes & Eurich, 415 Brainard St., 3 story and basement, rein.-con., brick and steel, plain foundation, incl. swimming pool. North Dist. $500,000.

Ill., Chicago—APARTMENT—Hooper & Janisch, archts., 879 North State St., soon takes bids 21 story and basement, 148 x 150 ft., rein.-con., brick and terra cotta, 1400 Lake Shore Dr., for Wille Bros., c/o architects. $2,500,000. F. A. Randall, 180 North La Salle St., engr.

Ill., Chicago—APARTMENT—Syndicate, c/o Hooper & Janisch, archts., 879 North State St., having plans prepared 12 and

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Buildings—Commercial (Continued)

15 story, 73 x 180 ft., rein.-con., brick, steel and terra cotta, 529 Cornelia Ave. $750,000. F. A. Randall, 160 North La Salle St., Chicago, engr.

Ill., Chicago—APARTMENT—McNally & Quinn, archts., 8 South LaSalle St., takes bids about June 15, 17 story and basement, 80 x 109½ ft., rein.-con., brick, steel and stone, wood pile foundation, 70 East Cedar St., for Seventy East Cedar St. Building Corp., c/o archts. $1,250,000.

Ill., Chicago—CLUB—K. M. Vitsthum & Co., archts., 307 North Michigan Ave., soon take bids 26 story, 90 x 188 ft., concrete, steel and stone, incl. gymnasium, swimming pool, etc., for Midland Club, 25 East Jackson Blvd. $4,500,000. Noted Feb. 4.

Ill., Chicago—HOTEL—Syndicate, c/o Haszagh & Hill, archts., 6 North Michigan Ave., having plans prepared 8 story and basement, 50 x 150 ft., rein.-con., brick and terra cotta, Kenmore Ave. near Lawrence Ave. $300,000.

Ill., Chicago—THEATRE, STORE and OFFICE—Z. E. Smith, archt., 343 East Garfield Blvd., soon takes bids 4 story and basement, 125 x 265 ft., rein.-con., brick, steel and terra cotta, East 75th St. between Essex and Kingston Aves., for E. I. Bloom, et al, 6711 Stony Island Ave. $2,000,000. Noted Jan. 28.

Ill., Chicago—THEATRE, STORE and OFFICE—Z. E. Smith, archt., 343 East Garfield Blvd., soon takes bids 3 story and basement, 125 x 198 ft., rein.-con., brick, steel and terra cotta, Irving Park Blvd. and Central Ave., for Syndicate, c/o architect. $1,250,000.

Ill., Chicago—WAREHOUSE—S. S. Joy, archt., 2001 West Pershing Rd., soon lets contract 1 story, 175 x 330 ft., brick and steel, South Kedzie and 51st Sts., for International Steel & Iron Co., 431 North Michigan Ave. $200,000.

Ill., Riverside—MUSEUMS, CAGES, etc.—Chicago Zoological Society of Cook Co., c/o E. A. Clark, archt., 8 East Huron St., Chicago, having plans prepared animal houses, museums, cages, artificial mountain, etc., 31st St. and Des Plaines Ave., here. $500,000.

Ill., Rock Island — OFFICE — Royal Neighbors of America, c/o E. Barthel, recdr., having preliminary plans prepared by Cervin, Horn & Stuhr, Safety Bldg., 4 story and basement, concrete, brick and stone office building. $300,000.

Wis., Burlington — THEATRE, etc. — Crystal Theatre Co., W. L. Uglow, proprietor, having plans prepared by E. Tough, Washington Bldg., Madison, 3 story and basement, 57 x 136 ft., brick and rein.-con., plain foundation.

Wis., Eau Claire—HOSPITAL—Foeller, Schober & Stephenson, archts., Nicolett Bldg., Green Bay, soon lets contract 3 story and basement, 44 x 130 ft., brick and concrete addition, plain foundation, here, for Sacred Heart Hospital, North Dewey St. $150,000. Noted June 3.

Wis., Milwaukee—THEATRE and BUSINESS—Owner, c/o F. P. Nusslock, 987 Becher St., having preliminary plans prepared by R. B. Williamson, 405 Bway., 1 and 2 story and basement, 150 x 150 ft., brick, concrete and terra cotta, plain foundation 3rd St. $700,000.

Wis., Oshkosh—THEATRE and BUSINESS—New company being organizeed, c/o W. Schroeder, 86 Michigan St., Milwaukee, having plans prepared by Foltz & Co., archts., 510 North Dearborn St., Chicago, Ill., and Dick & Bauer, supervy. archts., 328 Century Bldg., Milwaukee, and soon takes bids 2 story and basement, rein.-con. and brick, plain foundation, Main St. $300,000. Noted May 6.

Wis., Sheboygan — LODGE — Sheboygan Aerie 277, F.O.E., W. G. Kell, pres., 2037 North 8th St., soon lets contract 3 story and basement, 140 x 150 ft., brick and concrete, plain foundation. To exceed $150,000. W. C. Weeks, 720 Ontario Ave., archt.

Ia., Des Moines—OFFICE and WAREHOUSE—International Harvester Co., Vine St., W. D. Price, supt. owner at 606 South Michigan Ave., Chicago, Ill., soon lets contract 5 story, 88 x 150 ft., rein.-con. and brick, plain foundation. $175,000. Noted May 27.

Kan., Kansas City—OFFICE—Federal Reserve Life Insurance Co., Federal Reserve Life Insurance Bldg., plans 20 story and basement, office building. $1,000,000.

Neb., Grant—COURT HOUSE—Perkins Co. voted $150,000 bonds, for court house.

Neb., Wilber—COURT HOUSE—Saline Co. election soon $175,000 bonds, court house.

Mo., Kansas City — APARTMENT HOTEL — Fisher Building Co., Commerce Bldg., having plans prepared by P. T. Drotts, Reliance Bldg., 8 story and basement, 55 x 120 ft., rein.-con., plain foundation, Linwood Blvd. and Tracy Ave. $500,000.

Mo., Kansas City — HOTEL — Knickerbocker Hotel Co., c/o G. Palmer Graves, archt., Chicago, Ill., having plans prepared 12 story and basement, 140 x 180 ft., rein.-con., brick, steel, cut stone and terra cotta, 3623 Bway. $1,600,000. Cook & White, 306 Mutual Bldg., mech. engrs.

Mo., Newton—TEMPLE—Masonic Lodge having preliminary plans prepared by Greenbaum, Hardy & Schumacher, 216 Scarritt Bldg., Kansas City, masonic temple. To exceed $150,000.

Mo., Rolla—HOTEL—Chamber of Commerce having preliminary plans prepared rein.-con., brick and stone hotel. $150,000. Private plans.

Mo., St. Louis — BUS TERMINAL and GARAGE — Local Syndicate, c/o A. C. Hoehn, 730 Chestnut St., purchased site and plans 8 story and basement, 127 x 140 ft., rein.-con. and brick, 7th and Franklin Sts.

Mo., St. Louis—SALES and SERVICE—Oliver Cadillac Co., 3222 Locust St., having preliminary plans prepared by Mauran, Russell & Crowell, Chemical Bldg., 2 story and basement service building, Lindell Blvd. $250,000.

Ark., Hot Springs — HOTEL — P. Gerhardt, archt., 64 West Randolph St., Chicago, Ill., soon lets contract 7 story, 156 x 180 ft., rein.-con., brick, steel and terra cotta hotel, here, for S. W. Maltz, c/o architect. $500,000.

Tex., Amarillo — APARTMENT and GARAGE — B. Fisher, c/o Palo Duro Hotel, plans 3 story and basement, 75 x 140 ft., brick and concrete, 16th and Jackson Sts. $150,000. Engineer and architect not announced.

Tex., Bay City—HOTEL—Bay City Hotel Co., c/o C. A. Magill, having plans prepared by Howard & Howard, 615 San Jacinto St., Houston, 3 story and part basement, rein.-con. and brick, plain foundation. $160,000.

Tex., Beaumont—HOTEL—J. F. Voodhue, Calder Rd., having plans prepared 10 story and basement, fireproof, Orleans Ave. and Crockett St. $400,000. Engineer and architect names withheld.

Tex., Childress — HOSPITAL — Childress Co., c/o County Judge, voted $175,000 bonds, 3 story, rein.-con. and brick, plain foundation. Voelcker & Dixon, 4 Kahn Bldg., Wichita Falls, archts. Noted Apr. 8.

Tex., Cisco — TEMPLE — Cisco Masonic Lodge 556, c/o secretary, plans 4 story and roof garden, brick, stone and rein.-con. $175,000. Engineer and architect not selected.

Tex., Dallas—TEMPLE—Masonic Temple Corp., c/o S. P. Cochran, chn. building com., plans brick, stone, steel and rein.-con., Harwood St. between Canton and Young Sts. $1,000,000. Engineer and architect elected soon.

Tex., Ft. Worth — HOSPITAL — W. C. Hedrick, archt., 100 Ashland St., takes bids about June 20, 5 story, brick, stone, terra cotta and rein.-con., for Sisters of Charity of Incarnate Word, St. Joseph's Hospital. $300,000.

Tex., Ft. Worth—HOTEL and THEATRE—J. H. Jones & associates, Houston, had plans prepared by A. C. Finn, Bankers Mortgage Bldg., Houston, and W. C. Hedrick, 1st Natl. Bank Bldg., 22 story and basement, 100 x 200 ft., brick, stone, steel and rein.-con., 7th and Taylor Sts. $2,000,000. Noted Feb. 18.

Tex., Ft. Worth — TEMPLE — Masonic Temple Co., c/o W. S. Cooke, chn. com., 208 Taylor St., having plans prepared by W. G. Clarkson & Co., 1st Natl. Bank Bldg., 3 story, 100 x 300 ft., brick, stone and rein.-con., Henderson, North, Texas and Lake Sts. $1,000,000.

Tex., Houston — JAIL and CRIMINAL COURT — Harris Co., c/o H. L. Washburn, aud., plans jail and criminal courts building, Capital Ave. and Bagby St. $700,000. J. R. Bailey, 6 Waverly Dr., J. Finger, Woolworth Bldg., Hedrick & Gottlieb, H. F. Jones & Tabor and H. A. Overbeck, archts.

Tex., Mineral Wells — HOTEL — Crazy Well Hotel Co., c/o C. P. Collins, pres., Dallas, having plans prepared by Lang & Witchell, Amer. Exch. Bank Bldg., Dallas, and Withers & Merrell, Dallas, 6 story (ultimately 10 story) and basement, 100 x 200 ft. hotel, incl. 2 story, 100 x 200 ft. pavilion. $1,000,000. Noted Mar. 4.

Tex., San Antonio—ELKS CLUB—Elks Club, plans 4 story, fireproof addition, Pecan and Navarro Sts. $150,000. Address J. Burke, 502 East Evergreen St., exalted ruler.

Tex., San Antonio — OFFICE, HOTEL, THEATRE, etc. — F. L. Thompson & associates, c/o Grayburg Bldg., purchased site and plans 188 x 245 ft., office, hotel, theatre or department store building. $300,000. Engineer and architect selected soon.

Okla., Eufaula—COURT HOUSE—McIntosh Co. voted $175,000 bonds, 2 story and basement, rein.-con. and brick, plain foundation, Main St. Noted Aug. 20.

Okla., Oklahoma City—HOTEL—D. R. Harriman, 104 West Grand St., had preliminary plans prepared 3 story and basement, 85 x 150 ft., rein.-con. and brick, plain foundation, 9th and Robinson Sts. $150,000. Engineer and architect not selected.

Okla., Oklahoma City—STORE—J. O. Thomas, 1023 West 18th St., plans 3 story and basement, 80 x 140 ft., rein.-con., and brick, plain foundation, 11th and Walker Sts. $175,000. Engineer and architect not selected.

Wash., Seattle — STORE — Washington Co-operative Egg & Poultry Assn., having plans prepared by J. M. Reames, Bigelow Bldg., 4 story and basement, 115 x 158 ft., rein.-con., West John St. and Elliott Ave. $200,000.

Calif., Ensenada — CLUB — Interests represented by K. E. Preuss, et al., Los Angeles, having preliminary plans prepared by Parkinson & Parkinson, Title Insurance Bldg., Los Angeles, club, with 3,000 ft. pier, here. $1,000,000.

Calif., Fresno—THEATRE and OFFICE—A. Pantages Circuit, Pantages Theatre Bldg., San Francisco, having preliminary plans prepared by B. M. Precita, Pantages Theatre Bldg., San Francisco, 150 x 150 ft., concrete and steel, Fulton and Tuolumne Sts. $250,000 or more. Noted Nov. 12.

Calif., Lodi—CITY HALL—Plans election $150,000 or more bonds, brick and concrete city hall. Davis-Pearce Co., Weber & California Sts., Stockton, archts.

Calif., Los Angeles—APARTMENT—D. Lazar, 3871 West 6th St., had plans prepared by L. A. Smith, Film Exch. Bldg., 4 story and basement, 115 x 126 ft., stucco, 1209 South Lake St. $150,000.

Calif., Los Angeles — APARTMENT — L. A. Smith, archt., Film Exch. Bldg., preparing plans 4 story and basement, 88 x 150 ft., brick, 4th St. and Alexandria Ave. $150,000. Owner's name withheld.

Calif., Los Angeles—HOSPITAL—A. C. Martin, archt., Higgins Bldg., preparing plans (1st unit) 3 story, brick and steel, Towne Ave. $150,000. Owner's name withheld.

Calif., Los Angeles—HOSPITAL—Barlow Sanitorium, 1225½ Chavez Rd., had plans prepared by A. S. Nibecker, 1624 Bushnell St., South Pasadena, 2 and 3 story, 50 x 140 ft., rein.-con., Ravine Rd.

Calif., Los Angeles—HOSPITAL—Pacific Beach Hospital, 4th St. and Pacific Ave., having plans prepared by W. H. Shaw, 1747 Maltman Ave., 7 story and basement, steel, Pacific Ave. To exceed $750,000.

Calif., Los Angeles—HOTEL—L. Kaufmann, c/o Metcalf & Ryan, Sun Finance Bldg., purchased 105 x 120 ft. site, and plans 12 story hotel, 6th St. and Virgil Ave. Approximately $700,000.

Calif., Oakland—OFFICE and LODGE—United Masonic Building Assn., c/o E. T. Foulkes, archt., Crocker Bldg., San Francisco, having preliminary plans prepared 18 story, basement and sub-basement, steel and brick, 12th and Harrison Sts. $2,500,000.

Calif., Los Angeles — OFFICE and STORE — Security Title Co., 105 North Bway., plans 12 story and basement, 64 x 165 ft., probably steel and concrete, Bway. near 1st St. To exceed $350,000.

Calif., Los Angeles—STORE and OFFICE—C. Laemmle, pres., Universal Pictures Corp., 219 Winston St., plans 3 story (ultimately 12 story) and basement, Hollywood Blvd. and Vine St. $500,000. Engineer and architect not selected.

Calif., Los Angeles—STORE and LOFT—Lloyd & Casler, Inc., 315 East 8th St., having preliminary plans prepared by W. D. Lee, Textile Center Bldg., 12 story and basement, 55 x 125 ft., rein.-con., 8th and Santee Sts. To exceed $300,000.

Calif., Los Angeles—STORE and OFFICE—Security Title Building, Inc., having plans prepared by Walker & Eisen, Great Republic Bldg., 12 story and basement, 120 x 131 ft., brick, steel and rein.-con., Grand Ave. and 6th St. E. & R.

Calif., Los Angeles—THEATRE—N. W. Stowell, 129 West 2nd St., having plans prepared by Morgan, Walls & Clements, Van Nuys Bldg., rein.-con., Hill St. To exceed $300,000.

Calif., Napa—HOSPITAL—Napa Community Hospital having preliminary plans prepared by D. M. Crooks, 532 16th St., Oakland, 1 or 2 story, fireproof, North Brown St. $150,000.

Calif., Pastori—CLUB—The Emporium, Market and Powell Sts., San Francisco, had plans prepared by Ashley & Evers, 58 Sutter St., San Francisco, group country club buildings, here. $150,000.

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Buildings—Commercial (Continued)

Calif., Sacramento — JAIL — Sacramento Co., H. Hall, clk., plans jail, 7th and H Sts. $150,000 or more.

Calif., Salinas — HOSPITAL — Monterey Co., T. P. Joy, clk., having preliminary plans prepared by Reed & Corlett, Bank of Savings Bldg., Oakland, fireproof hospital. $150,000.

Calif., San Francisco—APARTMENTS—A. H. Larsen, archt., 110 Sutter St., soon takes bids two 4 story and basement, concrete, Clay St. west of Van Ness Ave., for Stock, Maas & Sauer. $75,000 each.

Calif., San Francisco—OFFICE—General Electric Co., Rialto Bldg., having plans prepared by Miller & Pflueger, 581 Market St., fireproof construction. To exceed $150,000.

Calif., San Francisco—WAREHOUSE—Matson Navigation Co., Matson Bldg., having plans prepared 3 story, 118 x 137 ft., rein.-con. warehouse with automatic sprinkler system, Bryant and Main Sts. $150,000. A. A. Brown, 215 Market St., engr.

Calif., Santa Barbara—HOTEL—A. L. Richmond, having preliminary plans prepared by R. Sauter, Mission Ridge, 4 story and basement, fireproof hotel. $350,000 or more.

Que., Montreal — COMMERCIAL — Asch Ltd., 51 Sherbrooke St. W., soon takes bids 3 story and basement, 100 x 116 x 236 ft., rein.-con., brick and stone, St. Catherine and St. Alexander Sts. $300,000. F. Peden, 4-A McGill College Ave., archt.

Ont., Nipigon — CLUBHOUSE — Nipigon Hunting & Fishing Club, 15 Manning Arcade Annex, having plans prepared by H. G. Duerr, Lumsden Bldg., Toronto, 1 and 2 story, rein.-con. and timber, plain foundation. $200,000.

Ont., Toronto — THEATRE — R. McLelland, Capitol Theatre, Yonge St., plans 2 story and basement, rein.-con., brick and steel, plain foundation, Mt. Pleasant Rd. $150,000. Engineer and architect not selected.

Bids Desired

Mass., Barnstable — SANATORIUM — June 17, by Comrs. Barnstable Co., c/o J. Purdon, archt., 50 Congress St., Boston, 2 and 3 story and basement, brick and stone childrens building, superintendent's cottage and addition to ward building, Barnstable Sanatorium. To exceed $150,000.

Mass., Boston—BUSINESS BLOCK—See "Contracts Awarded."

Mass., Boston—STORE and OFFICE—David Sears Realty Trust, c/o Shepard & Stearns, archts., 65 Franklin St., taking bids 6 story and basement, brick and steel, Dock Sq. corner Washington St. $150,000 or more.

Mass., Brookline (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Brookline (br. Boston)—GARAGE—Henderson & Ross, 209 Washington St., Boston, taking bids 3 story and basement, 120 x 145 ft., rein.-con., brick and steel, Coolidge corner, John, Pleasant and Waldo Sts. $500,000. H. F. Kellogg, 278 Stuart St., Boston, archt. Noted Apr. 30.

Mass., Fall River—MEMORIAL BUILDING—Goff Memorial for Children, taking bids 2 story and basement, brick, plain foundation. $150,000. Kendall, Taylor & Co., 142 Berkley St. Boston, archts.

Mass., Somerville (br. Boston)—CLUB—Italian Mutual Benefit Assn., A. F. Bianchi, doctor, c/o J. A. Quick, archt., 10 Tremont St., Boston, taking new bids 2 and 3 story and basement, rein.-con. and brick, club house and bowling alleys. $150,000.

R. I., Woonsocket—STORE, OFFICE and SOCIETY—L'Union St. Jean Baptist, c/o W. F. Fountaine, archt., 285 Main St., taking bids 3 story and basement, brick, plain foundation. To exceed $150,000. Noted Nov. 5.

Conn., Hartford—GARAGE—J. P. Nielson & Sons, 86 Maple St., taking bids 2 story, 96 x 300 ft., brick, steel and concrete, plain foundation, Washington St. $150,000. Noted Feb. 11.

Conn., Hartford — THEATRE and OFFICE — Colonial Theatres, Inc., c/o J. A. Tuck, archt., Park Sq. Bldg., Boston, taking bids 5 story and basement, 60 x 130 ft., rein.-con., brick and steel, Washington St., here. To exceed $150,000.

N. Y., Brooklyn — APARTMENT — See "Contracts Awarded."

N. Y., New York—HOTEL—See "Contracts Awarded."

Pa., Lansdowne—STORE and OFFICE—See "Contracts Awarded."

Pa., Phila.—APARTMENT—See "Contracts Awarded."

Pa., Phila. — RESTAURANT and OFFICE—June 15, by R. Beneckert, archt., Bellevue Court Bldg., 3 story, basement and sub-basement, 33 x 130 ft., rein.-con., brick, steel and limestone, plain foundation, 217-19 South Broad St., for Horn & Hardart, 214 South 10th St. $200,000. Noted Apr. 22.

W. Va., Charleston—OFFICE—July 12, by Capitol Building Comn., at office H. M. Gore, gov., Capitol Bldg., for Office 2, fireproof. Cass Gilbert, 244 Madison Ave., New York City, archt.; adv. E. N.-R. June 10.

O., Akron—OFFICE and GARAGE—June 14, by W. F. Peters, dir. Pub. Serv., 1 and 2 story, 156 x 280 ft., brick and steel, plain foundation, Johnston St., for City. $150,000. Good & Wagner, Mohawk Bldg., archts. M. P. Tucker, Municipal Bldg., engr. Noted Mar. 4.

O., Cleveland—APARTMENT—Narosny & Libhaber, 1087 Thornhill Dr., taking bids 3 story and basement, 106 x 116 ft., brick, 1715 East 115th St. $175,000. L. R. Walker, 1900 Euclid Bldg., archt.

O., Cleveland—BANK—June 16, by Union Trust Co., G. D. McGwinn, vice-pres., Union Trust Bldg., 1 story and basement, 87 x 137 ft., brick, steel and concrete, East 101st St. and Euclid Ave. $175,000. L. K. Moatz, Union Trust Bldg., archt.

O., Cleveland — COMMERCIAL and APARTMENT—A. Kramer, 11503 Saywell Ave., taking bids 3 story and basement, 60 x 144 ft., brick, East 140th St. and Lake Shore Blvd. $160,000. M. Weis, 617 Union Bldg., archt.

O., Cleveland—POLICE STATION and GARAGE—June 11, by City, E. S. Barry, dir. Pub. Safety, Ciyt Hall, 1 and 3 story, 80 x 85 x 120 ft., brick, steel and concrete, East 35th St. $150,000. H. Kregelius, City Hall, archt. Noted May 6.

Ind., Indianapolis—APARTMENT—See "Contracts Awarded."

Mich., Detroit—APARTMENT—J. Berman, 1317 Dime Bank Bldg., taking bids 8 story and basement, 135 apartment, rein.-con., brick and terra cotta, 3rd St. $850,000. C. N. Agree, 1133 Book Bldg., archt.

Mich., Detroit—ENGINE HOUSE—June 14, by H. Brabyn, secy. Bd. Fire Comrs., Wayne & Larned Sts., 2 story and basement, brick, steel and rein.-con., plain foundation, Montcalm St. $150,000. H. Gehrke, 1010 Donovan Bldg., archt.

Ill., Chicago—APARTMENT—June 16, by Childs & Smith, archts., 720 North Michigan Ave., 19 story and basement, 60 x 120 ft., rein.-con., brick, steel and terra cotta, wood pile foundation, Lake Shore Dr. and Burton Pl., for Baird & Warner, 134 South La Salle St. $2,000,000. Noted Apr. 1.

Ill., Chicago — BANK — See "Contracts Awarded."

Wis., Madison—HOSPITAL—June 15, by Methodist Hospital Assn., c/o W. Kirchoffer, Dean Bldg., 6 story, 48 x 176 ft., rein.-con., brick and steel, plain foundation, here. $200,000. Low & Low, 1st Central Bldg., archts. Noted Mar. 25.

Kan., Pittsburg—HOTEL—June 30, by Bd. Dirs. Besse Hotel Co., 138 room hotel. $250,000. Hawk & Parr, 504 Cotton Exch. Bldg., Oklahoma City, Okla., archts.

Mo., St. Louis — APARTMENT — See "Contracts Awarded."

Ark., Pine Bluff—TEMPLE—June 15, by Pine Bluff Shrine, c/o C. H. Bollinger, 218 East 6th St., 4 story and basement, 110 x 203 ft., rein.-con., stucco and concrete, Pine and Martin Sts. $250,000. M. Selligman, 206 Pine St., archt. Noted May 20.

Wash., Seattle—EXCHANGE—June 20, by Bebb & Gould, archts., Hoge Bldg., 2 story and basement, 82 x 107 ft., steel and concrete, 1506 17th St., for Pacific Telephone & Telegraph Co., 3rd and Seneca Sts. $200,000.

Calif., Los Angeles—CLUB—W. W. Ache, 1616 4th Ave., taking bids part 1 and 3 story, rein.-con., San Vicente Blvd., for Brentwood Country Club. $50,000 or more. J. Byers, 1501 Anita Dr., Santa Monica, archt.

Calif., Los Angeles—THEATRE—J. P. Perrine, archt., Lincoln Bldg., taking bids 1 story, 100 x 145 ft., rein.-con., South Central Ave., for A. Ramish, c/o architect. $150,000.

Calif., Oakland — See "Contracts Awarded."

Calif., Riverside — SANITARIUM — July 6, by Supervs. Riverside Co., tubercular sanitarium, incl., boiler and laundry plant, service building, ambulant and semi-ambulant buildings, etc. $150,000 or more. G. S. Wilson, 646 West 9th St., archt.

Bids Received

Tex., Corpus Christi — OFFICE — S. M. Nixon & associates, Robstown, 8 story, 50 x 100 ft., rein.-con., brick and stone, North Bway. and Leopard Sts., here, from L. T. Wright & Co., 919 Builders Exch. Bldg., San Antonio, $156,263. Noted Apr. 29.

Contracts Awarded

Me., Brunswick — BUSINESS BLOCK — Tondreau Bros., East Main St., 3 story and basement, rein.-con., brick and stone, to D. Lemieux & Co., 15 Russell St., Lewiston. Archts. est. $150,000.

Me., Poland—TOWN HALL—Town, Pub. Building Dept., 2 story and basement, brick and stone, to D. Lemieux & Co., 15 Russell St., Lewiston. Archts. est. $150,000.

Mass., Boston—BUSINESS BLOCK—M. Dana, Pemberton Bldg., will build 1 story and basement, 100 x 165 ft., rein.-con. and brick, River St. $150,000. Work will be done by separate contracts. F. A. Norcross, 46 Cornhill, Boston, archt.

Mass., Brookline (br. Boston)—APARTMENT—Walnut Hill Realty Co., Grove St., will build, 2 and 3 story and basement, irregular shaped, brick, Grove and Smith Sts. $200,000. Work will be done by separate contracts. Private plans.

Mass., Chicopee—STORE, THEATRE and OFFICE—R. L. Choiffetz, 510 Main St., Springfield, 2 story and basement, 95 x 135 ft., rein.-con., brick and steel, Main St., here, to M. H. D. Constr. Co., 44 School St., Boston. Archts. est. $175,000. Noted May 6.

Mass., Randolf—BANK—Randolf Savings Bank, H. B. French, pres., 1 story and basement, concrete, brick and steel, North Main and School Sts., to Archdeacon & Sullivan, 5 East Concord St., Boston. Archts. est. $150,000.

R. I., Warren — THEATRE — Lyrick & Whipple, Hospital Trust Bldg., Providence, altering and constructing 2 story and basement, brick and steel addition, here, to A. W. Merchant, Inc., Hospital Trust Bldg., Providence. Archts. est. $150,000.

Conn., Hartford—BUSINESS—Harvey & Lewis Co., 865 Main St., 8 story, brick, steel and granite, Main and State Sts., to S. C. Poriss Co., 104 Asylum St. Archts. est. $200,000. Noted May 20.

Conn., New Britain—BANK—Commercial Trust Co., 274 Main St., 6 story and basement, 50 x 140 ft., brick and stone, West Main St., to H. Wales-Lines Co., 134 State St., Meriden. Archts. est. $400,000. Noted Apr. 29.

N. Y., Albany—BANK and OFFICE—New York State Natl. Bank, 65 State St., 16 story, brick, steel and stone, plain foundation, State St., to Foundation Co., 120 Liberty St., New York City. Noted Mar. 4.

N. Y., Brooklyn—APARTMENTS—W. Kraslow, c/o Shampan & Shampan, engrs. and archts., will build 2 brick, steel and stone, plain foundations, Ft. Hamilton Parkway, by day labor. $800,000.

N. Y., Brooklyn—APARTMENT—Sherover Constr. Corp., c/o W. I. Hohauser, engr. and archt., 1400 Bway., New York City, will build 15 story, brick, steel and stone, plain foundation, Ashland Pl. and Lafayette Ave. $2,000,000. Work will be done by separate contracts.

N. Y., Long Beach — HOTEL — W. H. Reynolds, Lexington Ave. and 43rd St., New York City, brick, steel and stone, plain foundation, to United Fireproofing Co., 8 West 40th St., New York City. Archts. est. $2,500,000.

N. Y., Long Island City — TERMINAL and OFFICE — Pennsylvania R.R. Co., Broad St. Sta., Phila., Pa., rein.-con. and steel, at Sunnyside Yards, here, to Turner Constr. Co., 244 Madison Ave., New York City. Engrs. est. $2,000,000.

N. Y., Flushing — EXCHANGE — New York Telephone Co., 15 Dey St., New York City, 3 story, rein.-con., brick and steel addition, Bway., here, to Tidewater Building Co., 16 East 33rd St., New York City. Archts. est. $275,000.

N. Y., New York — APARTMENT — S. Aginsky, c/o G. G. Miller, engr. and archt., 1482 Bway., will build brick, steel and stone, plain foundation, University Ave. $800,000. Work will be done by separate contracts.

N. Y., New York—HOTEL—Phipps Foundation for Working Girls, H. C. Phipps, 787 5th Ave., 15 story, brick, steel and stone, plain foundation, 56th St. and 1st Ave., to M. J. Kramer, 1 West 47th St.

N. Y., New York—HOTEL—N. Minskoff, 2382 Grand Concourse, will build brick, steel and stone, plain foundation, 234 West 48th St. $2,000,000. Work will be done by separate contracts. H. I. Feldman, 516 5th Ave., archt. and engr.

N. Y., New York—LOFT—Bas Realty Corp., E. Schmerler, pres., 285 5th Ave., New York City, 16 story, brick, steel and stone, plain foundation, 2 West 29th St., to Magoba Constr. Co., 103 Park Ave. Noted Mar. 18.

N. Y., New York—STORE—I. Gimbel, Bway. and 33rd St., altering brick, steel and stone, department store, Bway. and 33rd St., to Thompson-Starrett Co., 250

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Buildings—Commercial (Continued)

Park Ave. Archts. est. $300,000. Noted Oct. 1.

N. Y., New York—OFFICE—E. Pinaud, 84 5th Ave., 7 story, brick, steel and stone, plain foundation, 214 East 21st St., to J. F. Cockerill, 17 East 42nd St. Archts. est. $350,000.

N. Y., Thiells—ATTENDANTS HOME—Superintendent Purch., Capitol, Albany, attendants home at Letchworth Village, here, to Bedford & Lyle, Inc., Thiells, $144,-594. Noted May 20.

N. J., East Orange — DEPARTMENT STORE—R. H. Muir & Co., brick, steel and stone, plain foundation, Prospect and Main Sts., to J. W. Ferguson, 152 Market St., Newark. Archts. est. $200,000. Noted Apr. 29.

Pa., Lansdowne—STORE and OFFICE—P. Harrison, Bryn Mawr, will build 1 and 2 story and basement, 90 x 220 ft., rein.-con., brick and steel, plain foundation, Lansdowne and Baltimore Aves., here. Archts. est. $200,000. Work will be done by separate contracts. W. H. Lee, Schaff Bldg., archt. Noted May 6.

Pa., Phila. — APARTMENT — C. O. Elschlager, archt., 1615 Walnut St., 4 story and basement, 75 x 125 ft., brick and steel, plain foundation, 46th and Spruce Sts., to E. J. Kreitzburg, 1333 Arch St. Archts. est. $200,000. Owner's name withheld.

Pa., Phila.—APARTMENT—S. S. Silverman, Land Title Bldg., will build 4 story and basement, 34 x 161 ft., and 26 x 50 ft., rein.-con., brick and steel, plain foundation, 4317-21 Spruce St. $310,000. Work will be done by separate contracts. Private plans.

Pa., Phila.—STORE—W. H. Gravell & A. W. Hall, archts., Otis Bldg., 4 story and basement, 40 x 153 ft., rein.-con., brick and steel, plain foundation, 1915-19 Chestnut St., to J. Schnabel, Abbott Bldg. Archts. est. $200,000. Owner's name withheld. Noted May 13.

Md., Baltimore—OFFICE—Civic Centre Realty Co., 404 St. Paul St., 18 story, 72 x 100 ft., brick and steel, plain foundation, Calvert and Lexington Sts., to Wells Constr. Co., 237 5th Ave., New York City. Cogswell-Koether Co., 406 Park Ave., associate contractors. Archts. est. $550,000. Noted May 13.

Fla., St. Petersburg — HOTEL — J. H. Brown, New Suwanee Hotel addition, steel and rein.-con., to L. C. Parker, St. Petersburg. $500,000.

Miss., Meridian—HOTEL—Meyer-Florida Hotel Co., 11 story, rein.-con., brick and steel, 5th St. and 21st Ave., to Gauger-Korsmo Constr. Co., Memphis, Tenn. Archts. est. $750,000. Noted Apr. 15.

O., Canton—STORAGE WAREHOUSE—Ohio Power Co., 2 story, steel, brick and concrete, Northeast 2nd and Savannah Sts., to E. J. Landor Co., Renkert Bldg., $150,-000. Noted May 6.

O., Cleveland — APARTMENT — A. Dombich A. Horwitz, 3416 East 134th St., 3 story and basement, brick, Bosworth Rd., to J. Meckler, 9602 Adams Ave. Archts. est. $150,000.

O., Columbus — CITY HALL — W. H. Duffy, dir. Pub. Serv., general contract 5 story and basement, Front and West Broad Sts., to Boyajohn & Barr Constr. Co., 145 North High St., $936,250; electrical work, to Electric Power & Equipment Co., 208 North 3rd St., $41,061; heating and plumbing, to S. A. Esswein Heating & Plumbing Co., 546 West Broad St., $75,092. Grand total $1,052,403. Noted May 27.

O., Columbus—OFFICE and STORE—W. K. Lanman, 20 South 3rd St., 3 story and basement, 93 x 107 ft., brick and concrete, to E. Elford, 555 Park St., $175,000. Noted June 3.

Ind., Indianapolis—APARTMENT—Biltmore Realty Co. will build apartment. Work will be done by separate contracts under supervision George & Zimmerman, archts., 501 Meyer-Kiser Bank Bldg. $160,000.

Ind., South Bend — THEATRE and STORE—J. Handelsman, 304 South Wabash Ave., Chicago, Ill., general contract 8 story, 130 x 260 ft., brick, steel and rein.-con., here, to R. Sollitt & Sons, 303 Sherland Bldg.; steel, to Indiana Bridge Co., Muncie. Archts. est. $1,000,000. Orpheum Motion Pictures, theatre lessee, and Lloyds Dept. Stores, department store lessee, both of South Bend. Noted Mar. 11.

Ill., Chicago—APARTMENT—K. Rosenthal, 77 West Washington St., general contract 14 story, 66 x 74 ft., rein.-con. and brick, Chestnut St. and Ernst Court, to Rosenthal, Mayer & Lewis, 77 West Washington St. Archts. est. $1,000,000. Noted Mar. 18.

Ill., Chicago—APARTMENT—H. Lanski, 77 West Washington St., masonry contract 3 story and basement, 120 x 200 ft., brick and stone, 5520-24 Blackstone Ave., to Vagtborg Constr. Co., West 79th St., $250,-000. Noted Apr. 29.

Ill., Chicago — APARTMENT — A. J. Obrenstein & Hild, archts., 222 East Ontario St., masonry and carpentry contract 8 story, 62½ x 119½ ft., rein.-con. and brick, 3341 Pine Grove Ave., to H. Janisch & Co., 1813 Winona St.; steel, to Atlas Iron Wks., 351 West 59th St., plumbing and heating, to H. L. Patterson Co., 4544 North Western Ave., for Pine Crest Building Corp., c/o architects. Archts. est. $300,-000. Noted Apr. 29.

Ill., Chicago—BANK—H. L. Newhouse, archt., 4623 Drexel Blvd., masonry contract 3 story, 50 x 100 ft., concrete, brick and stone, 79th St. and Emerald Ave., to West Englewood Constr. Co., 6237 South Ashland Ave., carpentry contract, to A. L. Stressenrenter, 7855 Halsted St., for Auburn Park Trust & Savings Bank, 7855 South Halsted St. Archts. est. $400,000. Above architect now taking bids rest of work. Noted Apr. 8.

Ill., Chicago — BANK and OFFICE — Mundie & Jensen, archts., 39 South La Salle St., general contract 2 story and basement, 111 x 123 ft., brick and concrete, Milwaukee, Central Park and Oakdale Aves., to Local Constr. Co., 173 West Washington St., for 2nd Northwestern State Bank, Milwaukee, Central Park and Oakdale Aves. Noted Apr. 22.

Ill., Chicago—HOTEL—Dubin & Eisenberg, archts., 14 West Washington St., masonry and carpentry contract 6 story, 96 x 150 ft., rein.-con., brick, steel and terra cotta, Racine and Leland Aves., to A. Lindstrom Co., 77 West Washington St.; terra cotta, to Midland Terra Cotta Co., 105 West Monroe St.; plumbing, to Noble & Thumm, 1065 Addison St., for S. Isenstein, 2726 West Roosevelt Rd. Archts. est. $650,000. Noted Apr. 22.

Ill., Chicago—OFFICE—H. L. Newhouse, archt., 4623 Drexel Blvd., masonry and carpentry contract 4 story and basement, 90 x 125 ft., brick and terra cotta, 63rd St. and Ashland Ave., to West Englewood Constr. Co., 6237 South Ashland Ave., for West Englewood Natl. Bank Building Corp. Archts. est. $500,000. Noted Apr. 8.

Ill., Chicago—OFFICE and GARAGE—Building Construction Employers Assn., Chamber of Commerce Bldg., general contract 22 story, 100 x 150 ft., rein.-con., steel, granite, brick and terra cotta, Wacker Dr. and North La Salle St., to J. Griffiths & Son Co., 112 West Adams St. Archts. est. $4,000,000. Noted Apr. 8.

Ill., Chicago — THEATRE, STORE and APARTMENT — R. G. Wolff, archt., 410 North Michigan Ave., general contract 2 story, 135 x 225 ft., brick and terra cotta, Irving Park Blvd. and Austin Ave., to Thorgersen & Erickson, 4804 North Kedzie Ave., for Mitchell Bros., c/o architects. Noted Mar. 18.

Ia., Iowa City—HOSPITAL—W. H. Gemmill, secy. State Bd. Educ., State House, Des Moines, 7 story, 305 x 496 ft., rein.-con., brick and steel, plain foundation, here, to J. and W. A. Elliott, 905 Lumber Exch., Minneapolis, Minn., for State University of Iowa, $1,343,739. Noted Apr. 15.

Mo., Kansas City—APARTMENT HOTEL—H. Fisher, 615 Commerce Bldg., will build 8 story and basement, 67 x 108 ft., rein.-con., brick and cut stone, here, by day labor. C. A. Smith, 800 Finance Bldg., archt. Noted May 10.

Mo., St. Louis — APARTMENT — May Building & Investment Co., 808 Chestnut St., will build 3 story and basement, 48 x 102 ft., brick, concrete and stone, Enright Ave., by day labor.

Tex., Amarillo—OFFICE—M. B. Oliver-Eakle, 10 story and basement, 60 x 140 ft., brick, stone, and rein.-con., 6th and Polk Sts., to Hughes-O'Rourke Constr. Co., 1713½ Live Oak St., Dallas. Archts. est. $500,000. Noted Apr. 29.

Tex., Corpus Christi — OFFICE — S. M. Nixon and associates 8 story, 50 x 100 ft., brick, stone, and rein.-con. Bway. and Leopard Sts., to L. T. Wright & Co., Builders Exch. Bldg., San Antonio, $156,223. Noted Apr. 15.

Okla., Okemah — COURT HOUSE — Okfusgee Co., 4 story and basement, 70 x 90 ft., rein.-con. and brick, plain foundation, Atlanta St., to Tankersley Constr. Co., Sapulpa, $145,850. Noted May 6.

Okla., Ponca City—OFFICE—Marland Oil Co., 5 story and basement, 2 wings each, 40 x 120 ft., rein.-con. and brick addition, plain foundation, to Shallenberger Constr. Co., 1631 East 6th St., Tulsa, $310,-225. Noted Apr. 1.

Calif., Los Angeles—HOTEL—Pacific Investment Co. with A. G. Bailey, Hillstreet Bldg., 6 story, rein.-con., East 5th St., to J. M. Cooper, Rives-Strong Bldg., approximately $160,000.

Calif., Oakland—HOSPITAL—Altenheim Hospital, 1720 Hopkins St., will build 3 story, frame and brick veneer annex, Hopkins St., by day labor. $150,000. A. T. Ehrenfort, 24 California St., San Francisco, archt.

Calif., Pasadena—EXCHANGE—Parkinson & Parkinson, archts., Title Insurance Bldg., Los Angeles, 3 story and basement, 100 x 150 ft., rein.-con., brick and steel, Green and Madison Sts., here, to Bradley Constr. Co., 1925 East 16th St., Los Angeles, $290,000. Noted May 27.

Calif., Pasadena—EXCHANGE—Parkinson & Parkinson, archts., Title Insurance Bldg., Los Angeles, 2 story and basement, 80 x 90 ft., brick, steel and rein.-con., Lake and Elizabeth Sts., here, to H. W. Bauer Co., Central Bldg., Los Angeles, $150,000. Noted May 20.

Calif., San Francisco—APARTMENT—J. H. Rosseter, 945 Green St., 15 story and basement community apartment, Green St. near Jones St., to Quandt & Bros, Humboldt Bank Bldg. (archts.), under segregated contract system. $1,000,000.

Calif., San Francisco—APARTMENT—Corporation (being organized by San Francisco Capitalists), 15 story and basement, Class A construction, Jones and California Sts., to Cahill Bros., 55 New Montgomery St. $1,000,000 or more.

Calif., Santa Rosa—GARAGE and SHOW ROOMS—Cover-Lewis Motor Co., 1st and Main Sts., 1 story, rein.-con., B St., to Proctor & Cleghorn, Rosenberg Bldg., $150,000.

Ont., Toronto—APARTMENT—J. S. A. Whealy, 4 story, 109 x 110 ft., steel, stone and brick, to Roberts Constr. Ltd., Room 220, 81 Victoria St. Archts. est. $220,000.

Buildings—Industrial

Proposed Work

Mass., Boston — POWER HOUSE — Quincy Cold Storage Warehouse Co., 133 Commercial St., Boston, having plans prepared 4 story, 75 x 150 ft., brick, steel and concrete, Atlantic Ave.-T. Wharf. $1,000,-000. F. L. Fairbanks, company engr.

Mass., Boston—REPAIR and SERVICE GARAGE—Noyes-Buick Co., 857 Commonwealth Ave., having preliminary plans prepared by F. A. McSheffrey, engr. and archt., 857 Commonwealth Ave., 2 story, rein.-con. and steel, North Beacon St. $175,000.

Conn., Westport — BOILER HOUSE — Westport Sanitarium, F. D. Ruland, had plans prepared by A. Kellogg, engr. and archt., 89 Franklin St., Boston, Mass., 1 story, 35 x 70 ft., brick boiler house. $50,000.

N. Y., New York — PLANT — Brooklyn Bridge Freezing & Cold Storage Co., 4 Vandewater St., had plans prepared 3 story, 75 x 175 ft., rein.-con., brick and steel addition, plain foundation, Vandewater St. $125,000. Private plans. Noted Apr. 29.

N. Y., New York—BAKERY—New York Baking Co., 82 Sullivan St., having plans prepared by C. B. Comstock, engr. and archt., 110 West 40th St., New York City, 3 story, rein.-con., brick and steel, plain foundation, Whitlock Ave. $200,000.

Md., Baltimore — SERVICE STATION and SHOWROOM—Zell Motor Car Co., Mt. Royal Ave., having plans prepared by T. W. Pietsch, Amer. Bldg., 2 story, 140 x 230 ft., rein.-con., brick and steel, plain foundation, 29th St. and Remington Ave. $100,-000.

N. C., Sanford—BRICK PLANT—Sanford Shale & Brick Co., plans large brick plant, near here. $100,000.

Fla., Sarasota—COFFEE PLANT—M. L. Wread plans coffee plant and roasting mill, on Tamiami Trail near Hog Co. bridge. $250,000.

Miss., Aberdeen — CREAMERY — Aberdeen Creamery Co., F. Johnson, pres., takes bids about July 1, 3 story, 60 x 80 ft. creamery, rein.-con. $75,000. T. H. Allen, Bank of Commerce Bldg., and Hankert & Carnes, Hill Bldg., both Memphis, Tenn., archts.

La., Shrewsbury—ICE PLANT—Shrewsbury Ice & Produce Co. plans installing 30 ton ice plant, etc. at Shrewsbury Rd. and Kenner Air Line.

O., Canton — FACTORY — Damp-Proof Tile Co. plans factory, Whipple Rd. $50,-000.

O., Cleveland — SUB-STATION — Cleveland Electric Illuminating Co., Illuminating Bldg., had plans prepared by E. J. Cook, engr. and archt., Illuminating Bldg., 1 story and basement, steel and concrete, Canal and Granger Rds. $50,000.

O., Cleveland — FACTORY — L. Eiben (Northern Blower Co.), 6409 Barberton Ave., had plans prepared by C. H. White, 1238 East 80th St., 1 story, brick and steel addition. $40,000.

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Buildings—Industrial (Continued)

O., Cleveland—FACTORY—Rex Products Co., c/o F. B. Wadhams, 3121 Corydon Rd., had plans prepared by J. Kalsch, 4500 Euclid Ave., 1 story, 69 x 168 ft., steel and steel sash, 1916 East 55th St. $75,000.

O., Cleveland—FACTORY—White Motor, W. C. White, pres., 842 East 79th St., had plans prepared by W. S. Ferguson Co., 1900 Euclid Bldg., 1 story and basement, brick, steel and rein.-con. addition, East 79th St. $80,000.

O., Columbus—GARAGE and REPAIR SHOP—Dept. Highways & Pub. Wks., G. F. Schlesinger, dir., having plans prepared by Ohio Highway Engineers, Ohio-Hartman Bldg., 2 story and basement, 100 x 200 ft., brick and concrete, State Fair Grounds. $100,000.

Mich., Detroit — FACTORY — C. W. Brandt, archt., 1114 Kresge Bldg., preparing plans 5 story and part basement, 300 x 340 ft., rein.-con. and brick, plain foundation. $500,000. Owner's name withheld.

Ill., Chicago — PRINTING PLANT — Prairie Farmer Publishing Co., 337 West Madison St., will not build 3 story, 49 x 139 ft. printing plant. $150,000. Project abandoned. Noted Apr. 22.

Wis., Amery—FEED MILL—F. Route having plans prepared by E. F. Klinger, Amery, rein.-con. feed mill and elevator. $40,000.

Wis., Janesville — FACTORY — Fisher Body Corp., Durant Bldg., Detroit, Mich., having preliminary plans prepared by Chevrolet Motor Co., 5804 Woodward Ave., Detroit, Mich., 1 story, 150 x 645 ft., brick and steel addition, here. $200,000.

Mo., Kansas City — HARDWARE FACTORY — Woods Bros. Constr. Co., Security Bldg., having plans prepared 1 and 2 story, 90 x 125 ft., Woodsweather Ave. To exceed $40,000. Private plans. Field Hardware Mfg. Co., 111 East 31st St., lessee.

Mo., St. Louis — FACTORY — Stinson Adding Machine Impvt. Co., 321 South Grand Blvd., having plans prepared by S. L. Thurston, 130 Kenilworth Ave., Webster Groves and takes bids about Sept. 1, 2 story and basement ,130 x 250 ft., rein.-con. and brick addition, Clara and Ashland Aves. $100,000 or more.

Tex., Alvin—FIG PRESERVING PLANT —Magnolia Fig Products Co., Inc., M. M. Elfers, pres., having preliminary plans prepared fig preserving plant. $42,000. Engineer and architect selected soon.

Tex., Amarillo—LAUNDRY—G. Lindsey, having plans prepared by J. R. Smith, 310 Blackburn Bldg., 1 story and basement, rein.-con. and brick addition, plain foundation. $80,000.

Tex., Beaumont—MILK PASTEURIZATION and CLARIFICATION PLANT—W. Q. Wade & H. H. Tucker, Crowley, La., having plans prepared by F. W. Steinman & Son, 411 San Jacinto Blvd., 1 story, 40 x 80 ft., milk plant. $40,000.

Tex., Cisco — GASOLINE PLANT — Phillips Petroleum Co., making plans gasoline plant. $250,000. Private plans.

Tex., Corpus Christi—COTTON MILL—Blacklanders Inc., c/o S. M. Nixon, pres., having preliminary plans prepared cotton mill. $300,000. Private plans.

Tex., Edinburg—LIGHT and WATER PLANT—Valley Electric & Ice Co., having preliminary plans prepared enlarging electric light plant, perfecting water system and 20 ton addition to ice plant. $250,000. Private plans.

Tex., Galveston — PACKING PLANT — High Grade Packing Co., 2627 D St., having plans prepared by Stowe & Stowe, 311½ 22nd St., 2 story packing house. $50,000.

Tex., Moulton — ELECTRIC and ICE PLANTS — Texas Central Power Co., c/o Frost Bldg., San Antonio, purchased electric and light plants, and plans altering and enlarging same, here. $50,000. Private plans.

Tex., San Antonio — DAIRY — Metzger Bros., 107 Durango St., plans dairy. $40,000. Engineer and architect selected soon.

Tex., Wichita Falls — COLD STORAGE PLANT — Peoples Ice Co., c/o A. C. Yayzor, mgr., and Commonwealth Utilities Corp., St. Louis, Mo., having plans prepared 4 story cold storage plant. $100,000 or more. Private plans.

Calif., Emeryville — FACTORY — Kirsch Mfg. Co., 4514 Hollis St., Oakland, plans prepared by Eng. Dept. of Owners, at Sturgin, Mich. factory on 126,000 sq.ft. site, 45th and Holden Sts., here.

Calif., Los Angeles — PLANT — Sperry Flour Co., 141 California St., San Francisco, having plans prepared new plant, incl. 120 x 460 ft. warehouse, 90 x 200 ft. feed mill warehouse and 70 x 100 ft. garage, all foregoing 1 story and 3 story, 72 x 100 ft. feed mill, Fruitland and Maywood Aves. Eng. Dept. of Central Mfg. Dist., Inc. engrs. $250,000. Noted May 20.

BRIDGE—OTTAWA, KAN.

Bids were opened by city (lowest four and highest) for constructing bridge over Marais Des Cygnes River on Main St., Contr. No. 2, substructure and erection, except gunite, (A) Kansas City Bridge Co., 510 Orear Leslie Bldg., Kansas City (awarded contract); (B) List & Weatherly Construction Co.; (C) Wickes Engineering & Construction Co.; (D) H. H. Carrothers, Inc.; (E) Fred Luttjohann. Contr. No. 1 for furnishing structural steel let to Bethlehem Steel Co., $29,869; Contr. No. 3 for 4,000 cu.ft. gunite let to Cement Gun Co., Inc., Allentown, Pa., $8,615. The unit bids for Contr. No. 2 are as follows:

	A	B	C	D	E
1,050 cu.yd. substructure concrete	$28.00	$29.50	$26.00	$27.00	$32.00
325 cu.yd. superstructure concrete	24.00	18.25	20.00	22.00	22.00
114,000 lb. reinforcing steel	0.05	0.05½	0.046	0.06	0.06
595,000 lb. structural steel	0.01	0.01½	0.017	0.02	0.03
560 lin.ft. concrete handrail	6.00	3.50	4.00	8.00	7.00
560 lin.ft. brick handrail	4.25	2.50	4.00	8.00	5.00
1,050 sq.yd. brick paving on bridge	3.00	4.00	3.45	3.50	3.50
370 sq.yd. brick paving on approach	4.00	4.00	4.00	4.00	4.00
3,450 sq.ft. sidewalk on approaches	0.25	0.18	0.25	0.26	0.30
200 lin.ft. curbing on approaches	0.80	0.80	0.80	1.00	1.25
60 cu.yd. rubble wall	6.00	3.50	10.00	12.00	4.00
6,700 cu.yd. excavation	0.75	0.70	1.00	0.60	1.00
Temporary bridge (lump sum)	2,000.00	3,750.00	4,500.00	3,500.00	8,400.00
Removal and matchmarking (lump sum)	450.00	1,500.00	975.00	2,500.00	4,000.00
Removal by torch (lump sum)	300.00	750.00	350.00	700.00	3,000.00
Total exclusive alternates 5 and 13	$61,887	$66,927	$67,084	$68,732	$87,220
Total with concrete handrail and removal and matchmarking	65,697	70,387	70,299	75,712	95,140
Total with brick handrail and removal and matchmarking	64,717	69,827	70,299	75,712	94,020
Total with concrete handrail and removal by torch	65,547	69,637	69,674	73,912	94,140
Total with brick handrail and removal by torch	64,567	69,077	69,674	73,912	93,020

Calif., Modesto—PLANT—Modesto Refrigerator Co. (H. L. and W. F. Beard, interested, 912 11th St.), plans pre-cooling plant. $140,000.

Ont., Hamilton — POWER STATION — Dominion Power & Transportation Co., G. E. Waller, mgr., King and Catharine Sts., plans power station. $50,000.

Man., Winnipeg — SUB-STATION — Winnipeg Hydro-Electric Systems, J. G. Glassco, mgr., King St., plans 2 story, 50 x 90 ft., rein.-con., brick and stone, King St. $70,000. Private plans.

Bids Desired

Mass., Brighton (Boston P. O.)—REPAIR and SERVICE GARAGE — Mack Motor Truck Co., 75 North Beacon St., Boston, taking new bids 2 story, 40,000 sq.ft. floor space, brick, addition. $160,000. Former bids rejected. Warren Eng. Co., 50 Terminal St., Charlestown, engrs. Noted May 13.

Mass., Cambridge (Boston P. O.) — REPAIR and SERVICE GARAGE—See "Contracts Awarded."

Mass., Chelsea (br. Boston)—FACTORY —Snow White Laundry Co., 235 3rd St., taking bids 1 and 2 story, 35 x 100 ft., timber, Webster Ave. $40,000. S. S. Eisenberg, 46 Cornhill, Boston, archt.

Mass., Greenfield—MANUFACTURING—Owner, c/o M. R. Dow, archt., 288 Main St., taking bids 3 story, 45 x 75 ft., brick addition. $50,000.

Mass., Somerville (Boston P. O.)—REPAIR and SERVICE GARAGE—Pilgrim Motor Co., Walnut St., taking bids 1 story, 120 x 165 ft., brick, New Northern Artery, Fellsway East. $80,000. E. J. MacDonald, 77 Summer St., Boston, archt. and engr.

Mass., Quincy (Boston P. O.)—REPAIR and SERVICE GARAGE—See "Contracts Awarded."

Mass., Watertown (Ind. br. Boston)—POWER HOUSE—F. B. Gallagher, engr., 276 Stuart St., Boston, taking bids 1 story, brick and concrete addition, also two 1,000 hp. boilers and auxiliaries, super heaters, feed pumps, feed water heaters, stack and high pressure piping, here, for Hood Rubber Co., Nichols Ave.

Mass., Winchester—TANK SHED—J. O. Whitten Co. taking bids 2 story, 25 x 160 ft., brick plant addition. $50,000. J. A. Bigelow, 94 Dudley St., Brookline, archt.

La., Southport (mail New Orleans) — STEEL SHOP—See "Contracts Awarded."

O., Cleveland—LAUNDRY—A. A. Hanke, archt., 2906 Euclid Ave., taking bids and opens same about June 8, 2 story, 62 x 175 ft., brick, steel and concrete, East 55th St., for Modern Laundry Co., J. Bauer, pres., 2020 Woodland Ave. $75,000.

O., Cleveland—SUB-STATION—June 11, by City, H. Wright, dir. Pub. Utilities, City Hall, 1 story, brick, steel and concrete electric sub-station, Western Ave. $40,000. H. Kregelius, 604 City Hall, archt.

Wis., Mt. Horeb—SERVICE STATION—Mount Horeb Hardware Co. taking bids 1 story and basement, 66 x 110 ft., rein.-con., brick and steel, plain foundation, here. $45,000. M. S. Schneider, 401 West Dayton St., Madison, archt.

Wis., Mt. Horeb—SERVICE STATION and SHOP—Mount Horeb Hardware Co. taking bids 1 story and basement, 66 x 110 ft., rein.-con., brick and steel, plain foundation. $45,000. M. P. Schneider, 401 West Dayton St., Madison, archt.

Wis., Platteville—FOUNDRY—See "Contracts Awarded."

Mo., Kansas City—FACTORY—See "Contracts Awarded."

Mo., St. Louis — REFECTORY and LOCKER — June 29, by Bd. Pub. Serv., 208 City Hall, 1 and 2 story, 94 x 230 ft., brick, concrete and stucco, in Forest Park. $125,000. H. E. George, Division Parks & Recreation, archts. Noted Mar. 4.

Tex., Dallas — LAUNDRY and POWER PLANT — See "Buildings—Commercial."

Tex., Ennis—ICE PLANT—See "Contracts Awarded."

Calif., Los Angeles—PLANT—See "Contracts Awarded."

Contracts Awarded

Mass., Cambridge (Boston P. O.)—REPAIR and SERVICE GARAGE—P. Salvi, 31 Cutter Ave., Somerville, will build 1 story, concrete, 929 Massachusetts Ave. $40,000. Work will be done by separate contracts. Private plans.

Mass., Jamaica Plain (Boston P. O.) — REPAIR and SERVICE GARAGE — M. Doyle Co., 44 Perkins St., 1 story, 65 x 75 ft., brick and concrete, Centre St., to J. A. Singarella, 110 High St. Archts. est. $40,000.

Mass., Quincy (Boston P. O.)—REPAIR and SERVICE GARAGE—H. C. Murphy, 56 Franklin St., will build 1 story, 95 x 105 ft., brick and concrete. $40,000. Work will be done by separate contracts. M. T. Dennison, 415 Quincy Shore Dr., archt.

R. I., Pawtucket — TEXTILE MILL — Arbeka Webbing Co., North Main St., 1 story, 70 x 109 ft., 10 x 30 ft. and 10 x 20 ft., brick, North Main St., to H. M. Soule, 110 Brook St. Archts. est. $50,000.

N. Y., Lackawanna—CEMENT PLANT—Federal Portland Cement Co., 1082 Ellicott Sq. Bldg., Buffalo, cement plant, rein.-con. and steel, general foundations for buildings with slurry tanks, etc., to E. P. Muntz, L. V. Terminal Bldg., Buffalo; track work, to H. F. Stimm, Ellicott Sq., Buffalo; and superstructure, to Lackawanna Steel Constr. Co., Walden Ave., Buffalo. Noted May 27.

N. J., Flemington — PLANT — Simplex Universal Joint, Inc., Plainfield, 1 story, 60 x 100 ft. plant, here, to E. T. Haney, Frenchtown, $60,000. Noted Dec. 31.

Pa., Abington—POWER HOUSE, etc.—Abington School Bd., 2 story, basement and sub-basement, 57 x 84 ft., rein.-con. and brick power house and gymnasium, plain foundation, to Stahl & Walton, Willow Grove, $29,698. Noted May 20.

Pa., Fox Chase (Phila. P. O.)—MANUFACTURING—Ballinger Co., archts. and engrs., 12th and Chestnut Sts., Phila., 1 and 2 story, 182 x 193 ft., rein.-con. and brick manufacturing plant and boiler room, plain foundation, Rabin St. and State Rd., here, to Bowden Constr. Co., 1607 Summer St., Phila., for J. J. Nesbitt, Inc., c/o architects. Noted May 27.

Pa., Meadville — FACTORY — Hookless Fastener Co., 2 story, 50 x 200 ft., and 3 story, 60 x 300 ft., rein.-con. and brick factory, to J. Grant & Son, 4500 Euclid

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Buildings—Industrial (Continued)

Ave., Cleveland, O. Archts. est. $300,000. Noted May 27.

Pa., Phila.—FACTORY—Keystone Auto Top & Body Co., 1420 Fairmount Ave., 2 story and basement, 60 x 140 ft., rein.-con., brick and steel, plain foundation, 2325-31 Fairmount Ave., to S. S. Lear, 840 Jackson St. Archts. est. $50,000.

Pa., Phila.—PRESS SHOP—Edward G. Budd Mfg. Co., 25th St. and Hunting Park Ave., 1 story, 72 x 143 ft., rein.-con., brick and steel, plain foundation, to Wark Co., 1600 Walnut St.

Pa., Phila.—DYE HOUSE—Managunk Plush Co., 109 Levering St., 1 story, 54 x 257 ft., dye house, finishing and power plant, rein.-con. and brick, plain foundation, Umbria and Lemonte Sts., to C. M. Swartley & Son, 6835 Ridge Ave.

Pa., Phila.—FACTORY—J. M. Driver, Inc., 1644 North 55th St., 1 and 2 story, 60 x 275 ft., rein.-con., brick and steel, plain foundation, 57th and Lancaster Sts., to R. P. Whitty, Union Trust Bldg., Wash., D. C. Archts. est. $60,000.

La., Southport (mail New Orleans) — STEEL SHOP—C. C. Elmer Tank & Boiler Wks., Inc., 700 South Alexander St., New Orleans, will build 110 x 200 ft. steel shop, here, by day labor.

O., Cleveland — SUB-STATION — Cleveland Electric Illuminating Co., E. J. Cook, engr. of constr., Illuminating Bldg., 2 story, 55 x 59 ft., brick, steel and concrete, 1921 Walton Ave., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $75,000.

Ill., Burnside—INSPECTION SHOPS—Illinois Central R.R. Co., 135 East 11th Pl., A. F. Blaess, ch. engr., superstructures, of 90 x 440 ft. inspection shop, 50 ft. high, and 75 x 440 ft. repair shop, 40 ft. high, rein.-con., to J. E. Nelson & Sons, 3240 South Michigan Blvd. Engrs. est. $270,000.

Ill., Chicago—PLANT—Graham, Anderson, Probst & White, archts., 80 East Jackson Blvd., 2nd Section Crawford Ave. power plant, 1 story, 180 x 213 ft., incl. boiler room, turbine room, etc., to Bates & Rogers Constr. Co., 37 West Van Buren St., for Commonwealth Edison Co., 72 West Adams St. $2,000,000. Noted May 13.

Ill., Villa Park—FACTORY—Wander Co., 4 story, 125 ft. long, with three 55 x 150 ft. wings, fireproof addition, to W. Youngberg, Elmhurst. Archts. est. $200,000.

Wis., Platteville—FOUNDRY—Russell Fdry. Co., F. Russell, pres., will build 1 story and basement, 20 x 50 ft., and 40 x 110 ft., rein.-con., brick and steel machine and repair shop, here, by day labor. $40,000. H. Kleinhammer, Platteville, archt. Noted May 20.

Mo., Kansas City—FACTORY—U. S. Register Co., 350 West 5th St., will build 3 story and basement, 82 x 100 ft., brick factory and office, 5th St. and Bway., by day labor. $55,000. Private plans.

Tex., Denison—PAPER PLANT—Denison Herald Publishing Co., c/o J. L. Greer, mgr., 2 story, 50 x 110 ft., brick, stone and rein.-con., Woodward St. and Burnett Ave., to L. H. Lacy Co., 2632 Swiss Ave., Dallas, $45,000, cost plus percentage basis. Noted Mar. 18.

Tex., Ennis—ICE PLANT—Ennice Ice Co., c/o J. X. Newcomb, mgr., will build brick ice plant, by day labor. $40,000. Private plans.

Tex., Ft. Worth—PETROLEUM BUILDING—R. O. Dulaney, 1st Natl. Bank Bldg., 12 story (ultimately 20 story) and basement, 50 x 95 ft., brick, stone and rein.-con., 6th and Throckmorton Sts., to H. B. Friedman, 402 1st Natl. Bank Bldg. $500,000 cost plus percentage basis. Noted June 3.

Tex., San Antonio—CANDY FACTORY—G. A. Duerler Mfg. Co., 218 West Commerce St., 6 story and basement, 140 x 160 ft., rein.-con. and brick, plain foundation, Camp St. near Southern Pacific R.R. tracks, to E. Oeffinger, c/o Builders Exch. Bldg., $153,000. Noted May 13.

Calif., Los Angeles — PUBLISHING PLANT — Southwest Lithograph Co., 329 East 4th St., will build 1 story and basement, 100 x 125 ft. publishing plant, Mission Rd., by day labor under segregated contract system.

Calif., Oakland — FACTORY — Black & Decker Mfg. Co., 75 Fremont St., San Francisco, 1 story, rein.-con., East 10th St., to F. R. Siegrist, 693 Mission St., San Francisco. $36,577. Noted May 20.

Calif., San Francisco—LAUNDRY—J. B. Mon Co., 1714 Broderick St., 3 story and basement, brick and concrete, steel frame, California St., to Larsen Co., 68 Post St., $40,250.

Ontario—SUB-STATION—Hydro. Comm., Ft. William hydro-sub-station distributing power from Cameron Falls to Ft. William, to McCaw & McDonald, Winnipeg, Man., $42,800.

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Buildings—Educational, Religious

Proposed Work

Mass., Belmont (br. Boston)—SCHOOL and TOWER—Belmont Methodist Episcopal Church, D. J. Ilmer, pastor, 71 Trapelo Rd., having plans prepared by Woodbury & Stuart, 581 Boylston St., Boston, 3 story and basement, brick and steel Sunday school and church tower. $180,000.

Mass., Boston—ART SCHOOL—Museum of Fine Arts having preliminary plans prepared by G. Lowell, 12 West St., 3 story and basement, 70 x 100 ft., brick and stone, Evans Way. To exceed $150,000.

Mass., Dartmouth — HIGH SCHOOL — Town, School Com., having sketches made by Brown & Poole, 668 Pleasant St., New Bedford, 2 story and basement, brick and stone high school. To exceed $150,000.

Mass., Framingham—CHURCH—Grace Congregational Church, T. B. Lathrop, pastor, soon takes bids brick, stone and granite Pearl St. and Union Ave. $200,000. Newton & Wambolt, 6 Beacon St., Boston, archts.

Mass., Jamaica Plain (Boston P. O.)—CHURCH—Our Lady of Lourdes Roman Catholic Parish, J. F. Kelley, pastor, 46 Brookside Ave., raising $150,000 funds, 1 story and basement, brick, Montebello Rd. and Marmion St. Engineer and architect not selected.

Mass., Melrose (Ind. br. Boston)—HIGH SCHOOL—City, School Comn., plans Junior High School, brick and stone. $600,000. Engineer and architect not selected.

Mass., Middletown — SCHOOL — Town, School Com., having sketches made by Dow, Harlow & Kimball, 184 Boylston St., Boston, 2 story and basement, brick school. $150,000.

Mass., Quincy (Boston P. O.)—NURSES HOME—City, P. E. Barbour, mayor, having plans prepared by McLaughlin & Burr, 88 Tremont St., Boston, brick and stone nurses home. $150,000.

Mass., Walpole—HIGH SCHOOL—Town, J. S. Leach, chn. com., had revised plans prepared by R. H. Stowell, 184 Boylston St., Boston, altering and constructing 2 story and basement, 99 x 125 ft., and 60 x 80 ft., brick, granite and limestone addition, plain foundation, Common St. $325,000. Former bids rejected. Noted Mar. 18.

Mass., West Roxbury (Boston P. O.)—SCHOOL—City, Schoolhouse Dept., Boston, plans 2 story and basement, brick, Pershing Rd., here. $150,000. Engineer and architect not selected.

Conn., Hartford—SCHOOL—St. Augustine's Parish, M. W. Barry, pastor, having plans prepared by Whiton & McMahon, 805 Main St., 2 story and basement, 60 x 128 ft., brick and steel, Clifford St. and Maple Ave. $150,000.

N. Y., Brooklyn—CHURCH and PARISH HOUSE — English Lutheran Church, 34 Lenox Rd., having plans prepared by E. B. Goodhue, engr. and archt., 2 West 47th St., New York City, brick, steel and stone, plain foundation, Ditmars Ave. $250,000.

N. Y., Brooklyn—COMMUNITY CENTER — Jewish Center of Bensonhurst, H. Nearderman, pres., c/o Malkind & Weinstein, engrs. and archts., 105 Court St., having plans prepared 3 story, brick, steel and stone, plain foundation, Bay Parkway and 78th St. $375,000.

N. Y., Little Neck (mail Douglaston)—SCHOOL—Bd. Educ., 500 Park Ave., New York City, having plans prepared by W. H. Gompert, engr. and archt., Flatbush Ave. extension and Concord St., Brooklyn, P. S. 94, brick, steel and stone, plain foundation, Old House Land Rd., here. $150,000.

N. Y., Locust Valley—SCHOOL—Bd. Educ. had plans prepared by Coffin & Coffin, engrs. and archts., 522 5th Ave., New York City, brick, steel and stone, plain foundation, here. $275,000. Noted Feb. 25.

N. Y., New York—COLLEGE—New York University, 32 Waverly Pl., soon takes bids 15 story, brick, steel and stone, plain foundation, Washington Sq. $3,000,000. McKim, Mead & White, 101 Park Ave., archts. Noted Aug. 7.

N. Y., New York—PARISH HOUSE—St. Bartholomews Episcopal Church, 107 East 50th St., soon takes bids 6 story, brick, steel and stone, plain foundation, 51st St. and Park Ave. B. Goodhue, 2 West 47th St., engr. and archt.

N. Y., Tompkinsville (sta. Staten Island)—NURSES HOME—Staten Island Hospital, Castleton Ave., soon takes bids brick, steel and stone, plain foundation, Castleton Ave. $200,000. Delano & Aldrich, 126 East 38th St., New York City, engrs. and archts. Noted Jan. 28.

N. J., Jersey City—SCHOOL—Bd. Educ. received no bids June 2, constructing P. S. 22, 2 story, Van Horne and Magnolia Sts. $200,000. J. T. Rowland, 100 Sip St., archt. Noted May 27.

N. J., North Wildwood (mail Anglesea)—GYMNASIUM, etc. — Bd. Educ. having plans prepared by H. R. Stackhouse & W. W. Donohoe, 1120 Locust St., Phila., Pa., 2 story and basement, 72 x 154 ft., brick and steel gymnasium and auditorium addition to high school.

Pa., Erie—CHURCH—Sarah Hearn Memorial Presbyterian Church, c/o P. S. Beatty, pastor, having plans prepared by Corbusier, Lenski & Foster, B. F. Keith Bldg., Cleveland, O., 1 story, brick church. $150,000.

Md., Baltimore — COLLEGE — Johns Hopkins University, Charles St., having plans prepared by B. Turnbull, 328 North Charles St., 2 story, students activities building, brick and stone, Charles St. $150,000.

D. C., Wash.—HIGH SCHOOLS—Dist. Comrs., Dist Bldg., having plans prepared by A. L. Harris, municipal archt., Business High School, 13th and Upshur Sts. N. W., Allison, Ia.; also for Junior High School and Assembly Hall, 35th St. and Wisconsin Ave. N. W., $475,000.

Fla., Miami — CHURCH — First Baptist Church having preliminary plans prepared by Daugherty & Gardner, Nashville, Tenn., church. $600,000.

Miss., Columbus — DORMITORY, etc. — Mississippi State College for Women, having plans prepared by P. J. Krouse, Meridian, dormitory, dining hall, chapel, laundry and physical educational building $600,000.

La., Homer—HIGH SCHOOL—Bd. Educ. soon takes bids 2 story and basement, rein.-con., brick and stone high school. $225,000. E. F. Neild, City Natl. Bank Bldg., Shreveport, archt. Noted May 6.

La., Minden—CHURCH—Methodist Congregation, c/o L. I. Cain, pastor, plans church, here. $150,000. Engineer and architect not selected.

O., Cleveland—STUDIO HALL—Syndicate, c/o H. O. Maxwell, doctor, 108 Colonial Arcade, having plans prepared by F. W. Bail, Hanna Bldg., 4 story and basement, brick, steel and concrete, Euclid Ave. $750,000.

Mich., Detroit — ACADEMY — Sacred Heart Academy, c/o Maginnis & Walsh, 200 Boylston St., Boston, Mass., having preliminary plans prepared academy at Goose Point. To exceed $150,000.

Mich., Detroit—CHURCH—Lane, Davenport & Peterson, archts., 1017 Charlevoix Bldg., take bids about June 15, 2 story and basement, 60 x 130 ft., and 60 x 125 ft., brick, steel and stone, Mack Ave., for Baptist Bethel Church. $200,000.

Mich., Detroit — SCHOOLS — Bd. Educ., 1354 Bway. Ave. having plans prepared by Malcolmson & Higginbotham, 1217 Griswold St., 640 seating capacity, Greenfield Park, $208,185, McColl, Snyder & McLean, 2348 Penobscot Bldg., engrs., and by McGrath, Dohmen & Page, 2231 Park Ave., 700 seating capacity, McCutlock site, $236,950, VanTuyl, Heartt & Barron, Union Trust Bldg., engrs., both 2 story and basement.

Mich., Sault Ste. Marie — SCHOOLS — Voted $190,000 bonds, 3 story and basement, 65 x 138 ft., and 1 story, 67 x 120 ft. Junior High and Manual Training Schools, rein.-con. and brick, plain foundations, for Bd. Educ., G. P. Ritchie, pres. J. D. Chubb, 109 North Dearborn St., Chicago, Ill., archt. Noted May 27.

Illinois—HIGH SCHOOL—La Salle-Peru Twp. High School Bd., T. J. McCormack, supt., takes bids about July 1, 3 story, 65 x 200 ft. and 40 x 60 ft., rein.-con., brick and stone, Charles St. between 5th and 6th Sts., in La Salle and Peru. $400,000. Childs & Smith, 720 North Michigan Ave., Chicago, archts. Noted Mar. 18.

Ill., Chicago—ELECTRICAL SCHOOL—A. S. Alschuler, archt., 38 East Jackson Blvd., takes bids after June 7, 5 story, 95 x 120 ft., rein.-con., brick and terra cotta, 1701-1709 West Congress St., for Coyne Electrical School, 1300 West Harrison St. $300,000. This corrects report in June 3 issue.

Ill., Chicago—SYNAGOGUE and COMMUNITY CENTER—Temple Sholom Congregation, c/o Loebl & Schlossman, archts., 604 North Michigan Ave., having plans prepared 138 ft. high, 2,500 seating capacity, on 200 x 214 x 217 ft. site, Sheridan Rd. between Stratford Pl. and Cornelia Ave. $1,600,000.

N. D., Fargo—SCHOOL—Election June 30, $225,000 bonds, 2 story and basement, rein.-con. and brick addition, for Bd. Educ. Engineer and architect not announced.

Buildings—Educational, Religious (Cont.)

Mo., Sedalia—SCHOOL—Defeated $300,000 bonds, remodeling and repairing school, for Bd. Educ. Noted May 13.

Tex., Dallas — HIGH SCHOOL — N. R. Crozier, Bd. Educ. Bldg., having plans prepared by Dewitt & Simmon, Southwestern Life Bldg., 3 story and part basement, 225 x 244 ft., rein.-con. and brick, plain foundation, Reiger St. $550,000. R. O. Jamison, Southwestern Life Bldg., engr.

Tex., Houston — TABERNACLE—Houston Evangelistic Temple c/o E. G. Gerhard, asst. pastor, 16 Waugh Dr., having plans prepared by Brickey, Wiggins & Brickey, State Natl. Bank Bldg., 2 story, 118 x 121 ft., brick, stone, and terra cotta, Lamar and Chenevert Sts. $160,000.

Tex., McAllen — HIGH SCHOOL — Bd. Educ. plans election soon $385,000 bonds, new high school. R. H. Cameron, c/o City Natl. Bank Bldg., San Antonio, archt.

Calif., Campbell — HIGH SCHOOL — Campbell Union High School Dist., having preliminary plans prepared by W. H. Weeks, 369 Pine St., San Francisco, group fireproof high school buildings. $250,000.

Calif., Fullerton—HIGH SCHOOL—Brea-Olinda Union High School Dist. having plans prepared by Kistner & Co., Detwiler Bldg., Los Angeles, fireproof high school. $250,000 or more. Noted Oct. 29.

Calif., Glendale—CHURCH—First Methodist Episcopal Church, having preliminary plans prepared by A. G. Lindley, Amer. Bank Bldg., Los Angeles, rein.-con., Kenwood Ave. To exceed $250,000.

Calif., Los Angeles—SCHOOL—Wilshire Blvd. Congregational Church, Wilshire and Plymouth Blvds., having preliminary plans prepared by Allison & Allison, Hibernian Bldg., 2 story and basement, probably rein.-con., Wilshire and Plymouth Blvds.

Calif., Monrovia — SCHOOL — Monrovia Grammar School Dist. plans new election $150,000 bonds, grammar school.

Bids Desired

Me., Rangeley—HIGH SCHOOL—Town, Superintendent Schools, taking bids 2 story and basement, brick and stone high school. $150,000. Bunker & Savage, Augusta Trust Bldg., Augusta, archts.

Mass., Cambridge (Boston P. O.) — DORMITORY—Harvard University taking bids 4 story and basement, brick and stone medical dormitory, Longwood and Pasteur Aves. $1,500,000. Coolidge, Shepley, Bulfinch & Abbott, Ames Bldg., Boston, archts.

Mass., Concord — NURSES HOME — Emerson Hospital, c/o Derby & Robinson, archts., 5 Joy St., Boston, taking bids 2 story and basement, brick, plain foundation, here. $150,000. Noted Dec. 17.

Mass., Lynn — CHURCH — St. Stephens Episcopal Church, J. E. Morse, chn. com., taking bids 1 story and basement, brick, plain foundation, Easter Ave. and Wait St. $150,000. Coolidge, Shepley, Bulfinch & Abbott, Ames Bldg., Boston, archts.

Mass., Quincy (Boston P. O.)—CHURCH —Atlantic Methodist Episcopal Church, G. V. Shedds, pastor, taking bids 1 story, basement, and ell, granite and stucco, East Squantum and Hancock Sts. $150,000. Woodbury & Stuart, 581 Boylston St., Boston, archts. Noted Oct. 29.

Mass., Revere (br. Boston)—CHAPEL—Immaculate Conception Church, T. J. Holland, pastor, taking bids 1 story and basement, brick and stone, Ford and Revere Sts. $150,000. M. Sullivan, 100 Boylston St., Boston, archt.

Mass., South Boston (sta. Boston) — CONVENT — Gate of Heaven Church, A. Lyons, pastor, taking new bids on revised plans 3 story and basement, brick and stone convent. $150,000. Former bids rejected. Maginnis & Walsh, 100 Boylston St., Boston, archts. Noted May 13.

Mass., Watertown (Ind. br. Boston) — LIBRARY—Town, C. F. Snow, chn. building com., taking bids 2 story and basement, brick and stone, East End. $150,000. J. D Leland & Co., 41 Mt. Vernon St., Boston, archts.

R. I., Providence—ATHLETIC—Brown University, taking bids 3 story and basement, 125 x 145 ft., rein.-con. and brick, Elm Grove Ave. To exceed $150,000. Clarke & Howe, Turks Head Bldg., archts.

R. I., Woonsocket—CHURCH—St. John the Baptist Church, c/o W. F. Fountaine, archt., 285 Main St., taking bids 1 story and basement, brick and stone, Main St. $150,000 or more.

Conn., Hartford — SYNAGOGUE — Emanuel Synagogue, M. Silverman, rabbi, taking bids 2 story, 85 x 165 ft., brick and stone, Greenfield and Woodland Sts. $250,000. Ebbets & Fried, 15 Lewis St., archts. Noted Mar. 4.

N. Y., Newburgh—HIGH SCHOOL—July 1, by Bd. Educ., brick, steel and stone, plain foundation. $460,000. A. F. Gilbert, 358 5th Ave., New York City, engr. and archt. Noted May 27.

N. Y., Wanakena—SCHOOL—June 29, by J. R. Clancy, vice-pres. Bd. Trustees State College Forestry, Syracuse University, Syracuse, constructing, etc. building at Ranger School, here.

Pa., Phila. — CHURCH and SUNDAY SCHOOL—June 14, by Thomas, Martin & Kirkpatrick, archts., 220 South 16th St., 2 story and basement, 72 x 103 ft., and 82 x 110 ft., rein.-con., brick, stone and steel, plain foundation, Ridge Ave. and Hermitage St., for Levering Presbyterian Church, H. B. Burgess, 4423 Mitchell St., pastor.

Pa., Scranton—CHURCH and SUNDAY SCHOOL—June 14, by St. Peters Lutheran Church, Taylor and Ash Sts., 1 story, gallery and basement, 125 x 138 ft., rein.-con., brick and steel, plain foundation. Richer & Eiler, 147 North 5th St., Reading, archts.

W. Va., Morgantown—PHYSICAL and EDUCATIONAL—July 2, by State Bd. Control, Charleston, 4 story, 58 x 114 ft., rein.-con., brick, steel, and terra cotta, on campus, here, for West Virginia University. $225,000. Davis, Dunlap & Barney, 1805 Walnut St., Phila., Pa., archts.

O., Cincinnati—SCHOOL—June 28, by Bd. Educ., 3 story and basement, brick and rein.-con., plain foundation, Observatory St. $160,000. Tietig & Lee, 34 West 6th St., archts.

Ind., Ft. Wayne — CHURCH — First Christ Scientist Church, E. D. Spahr, building comr., 824 Clinton St., taking bids brick church. $200,000. H. Cheney, 80 East Jackson Ave., Chicago, Ill., archt.

Ind., Indianapolis—CHURCH—Woodruff Pl. Baptist Church, L. C. Trent, pastor, 411 North Arsenal Ave., taking bids brick, steel and rein.-con., Walcott and East Michigan Sts. $150,000. F. S. Cannon, 21 Virginia Ave., archt.

Mich., Alma—SCHOOLS—June 18, by J. S. Knoertzer, secy. Bd. Educ., 2 story and basement, 63 x 84 ft. grade school, and 3 story and basement, 65 x 180 ft. high school addition, both rein.-con., brick and steel in Dist. 1. Warren Holmes-Powers Co., Lussing Bldg., Lansing, archts.

Ill., Chicago—SCHOOL—June 29, at office Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., Luke O'Toole School, 2 story and basement, 72 x 386 ft., brick and stone, West 66th St. and South Seeley Ave. J. C. Christensen, 650 South Clark St., archt.

Ia., Clinton — CHURCH — June 17, by Cooldige & Hodgdon, archts., 134 South La Salle St., Chicago, Ill., 2 story and basement, rein.-con. and stone, plain foundation, 4th Ave. and 5th St., here, for 1st Presbyterian Church. $200,000.

Tex., Dallas—HOME—J. E. Overbeck, archt., Wilson Bldg., taking bids home, incl. 2 story, 49 x 122 ft., H shaped administration building, girls building, laundry, chapel and power plant, Ft. Worth Pike west of Wheatland Rd., for Home of Our Lady of Charity, c/o Mother Clement.

Wash., Seattle—SCHOOL—June 16, by F. A. Naramore, archt., Central Bldg., 3 story, 219 x 296 ft., rein.-con., brick, cast stone, and steel, East 68th Ave. and Ravenna Blvd., for School Dist. 1. $450,000. Noted Mar. 4.

Wis., Superior—CATHEDRAL—June 15, by J. J. Pinten, bishop Diocese of Superior, 1 story and basement, 80 x 200 ft., rein.-con., plain foundation. $250,000. L. Preuss, archt., and Widmer Eng. Co., engrs., both 612 Laclede Gas Bldg., St. Louis, Mo. Noted May 20.

Bids Received

Mass., Allston (sta. Boston)—SCHOOL—City, Schoolhouse Dept., Boston, 1 story and basement, 85 x 100 ft., brick and stone, Brainerd Rd., from J. P. Foley & Sons, 80 Boylston St., Boston, $99,600. Noted May 27.

La., Gretna — SCHOOLS — Jefferson Parish School Bd., May 25, constructing Ward 8 and Ward 7 Schools, from L. J. Woodworth, 337 Baronne St., New Orleans, $38,134 and $24,105, respectively; Hananan School, from Tudor & Roland, Alexandria, $79,900; Ames School, from Geary-Oakes Co., Inc., Title Guarantee Bldg., New Orleans, $37,395; and Negro school, from M. M. Pitre, Marrero, $22,824. Noted May 20.

O., Chillicothe — HIGH SCHOOL — Bd. Educ., May 24, 2 story and basement, brick, stone and concrete high school, from Chappaleai-Gardner Co., Portsmouth, $219,400. Noted Jan. 7.

O., Cleveland — SCHOOLS — Bd. Educ., F. G. Hogen, dir., East 6th St. and Rockwell Ave., May 24, three 2 story and basement, 120 x 220 ft., brick, steel and concrete grade schools, one at East 131st St. and Benham Ave., from Schirmer-O'Hara Co., 1720 Euclid Ave., $346,065; one at East 185th St., and other at West 54th St. and Ira Ave., from M. B. Parker Constr. Co., 1836 Euclid Ave., $339,539 and $341,536 respectively. Noted May 20.

Calif., Oakland—HIGH SCHOOL—Bd. Educ., May 25, general contract Woodrow Wilson Junior High School addition, 1 story, steel and concrete, from Lawton & Vezey, 354 Hobart St., $212,853. Noted May 6.

Calif., San Leandro — SCHOOLS — San Leandro School Dist., May 27, general contract 2 story, rein.-con. additions to McKinley and Washington Schools, from J. L. McLaughlin, 251 Kearny St., San Francisco, $135,800. Noted May 20.

Contracts Awarded

Vt., St. Johnsbury—ADMINISTRATION, etc.—St. Johnsbury Academy, 3 story and basement, 60 x 75 ft., brick and stone administration, office, library, hall and class rooms, to C. M. Dwinell, Orleans. Archts. est. to exceed $150,000.

R. I., Cranston (mail Providence) — SCHOOL — City, 2 story and basement, brick and stone, Curtis St., to Pierce & Gartz, Inc., Wilcox Bldg., Providence. Archts. est. $150,000.

Mass., Springfield — HIGH SCHOOL — City, Dept. Pub. Buildings, 2 story and basement, brick and stone, Washington St., to E. J. Pinney, Inc., 220 Dwight St. Archts. est. $150,000 or more.

Mass., Williamstown — HALL—Williams College, 3 story and basement, brick addition to Lawrence Hall, to Casper-Ranger Constr. Co., Holyoke. Archts. est. $150,000.

N. Y., Brooklyn — AUDITORIUM — Church of St. Theresa, c/o R. J. Reilly, engr. and archt., 12 East 41st St., New York City, brick, steel and stone, plain foundation, St. Johns Pl., to H. Veit, 26 DeVoe St., Brooklyn. Archts. est. $200,000.

N. Y., Brooklyn — SCHOOL — Bd. Educ., 500 Park Ave., New York City, P. S. 203, Ave. M, from East 51st to 52nd Sts., here, to G. F. Driscoll Co., 548 Union Ave., $334,850. Noted June 3.

N. Y., Greenwich—SCHOOL—Bd. Educ., rein.-con. and brick, plain foundation, Main St., to Duplex Constr. Co., Glens Falls. Archts. est. $225,000. Noted May 13.

N. Y., Hempstead—SCHOOL—Church of Our Lady of Loretta, R. E. Boyle, pastor, brick, steel and stone, plain foundation, Greenwich St., here, to H. A. Harris & Co., Inc., 16 East 43rd St., New York City. Archts. est. $200,000. Noted Apr. 1.

N. Y., Jamaica — MONASTERY — Passionist Fathers Monastery, M. Mayer, 381 West St., Hoboken, N. J., 4 story, brick, steel and stone, plain foundation, Pine Ave., to W. H. Fissell & Co., 1328 Bway., New York City. Archts. est. $250,000.

N. Y., Maspeth (Ind. sta. Flushing)—SCHOOL—Bd. Educ., 500 Park Ave., New York City, general contract P. S. 73, 54th Ave. and 71st St., here, to Hamilton & Chambers, 29 Bway., New York City, $339,700; plumbing, to G. M. O'Connor, 152 Fulton Ave., Astoria, $28,300; and heating, to D. J. Rice, Inc., 606 1st Ave., New York City, $49,279. Grand total $417,279. Noted May 27.

N. Y., New York—LIBRARY—Hispanic Society of America, 155th St. and Bway., brick, steel and stone, plain foundation, 620 West 156th St., to M. Eidlitz & Son, Inc., 41 West 42nd St. Archts. est. $150,000.

N. Y., New York—SCHOOL—Bd. Educ., 500 Park Ave., general contract P. S. 101, East 111th St., to Kenny Bros., Inc., Old Bway., $419,770; heating, to Heat Control Serv. Co., 759 Park Pl., $49,339. Noted May 20.

N. Y., Springfield—SCHOOL—Bd. Educ., 500 Park Ave., New York City, general contract P. S. 52, New York Blvd. from Comfort to Grand Ave., to Willets Constr. Co., 280 Madison Ave., New York City, $370,000; plumbing, to J. A. Graf, 111 Putnam Ave., Brooklyn, $25,631; and heating, to D. J. Rice, Inc., 606 1st Ave., New York City, $49,713. Grand total $445,344. Noted May 27.

N. J., Irvington (br. Newark)—SCHOOL —Bd. Educ., school, Mt. Vernon Ave., to Fatzler Co., Irvington, $219,450. Noted May 20.

N. J., Red Bank—SCHOOL—St. James Roman Catholic Church, general contract 3 story, 55 x 142 ft., brick, Broad St., to W. J. Meagher, 211 Market St., Perth Amboy, $147,578. Noted Mar. 25.

Pa., Columbia—CHURCH—Holy Trinity Roman Catholic Church, P. G. Bruegger-man, pastor, 1 story and basement, 75 x 195 ft., rein.-con., steel and stone, to Hess Bros., York. Archts. est. $200,000.

O., Akron — JEWISH CENTER and TEMPLE—Jewish Center Co., 1 story, 68 x 115 ft., and 52 x 113 ft., brick, steel and concrete, to O. Weinstein, 973 Hereford Dr. Archts. est. $150,000. Noted Mar. 11.

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Buildings—Educational, Religious (Cont.)

Ill., Chicago—SCHOOL—Bd. Educ., 650 South Clark St., general contract Ernst Prussing School, 2 story and basement, 72 x 386 ft., brick, stone and terra cotta, North Menard Ave. and Slocum St., to Simpson Constr. Co., 133 West Washington St., $299,000. Noted Apr. 1.

Ill., Hillside — SEMINARY — Servite Fathers Monastery, masonry and concrete contract 3 story and basement, 190 x 225 ft., rein.-con. and brick, plain foundation, to Schuetz Constr. Co., 3640 Kilbourn Ave., Chicago. Archts. est. $350,000.

Mo., Kansas City—SCHOOL—Bd. Educ., general contract 2 story and basement, 80 x 180 ft., rein.-con., brick and terra cotta, 38th and Jackson Sts., to B. L. Elmer, 1004 West 33rd St., $186,368. Archts. est. $300,000.

N. D., Grand Forks — SCHOOLS — Bd. Educ., W. P. Roguie, clk., general contract 2 and 3 story, rein.-con. and brick school additions, here, to Northern Constr. Co., Grand Forks, $209,500. Noted Mar. 18.

Calif., Alhambra — CHURCH and SCHOOL — First Presbyterian Church, rein.-con., Commonwealth Ave., to Wescott Co., 710 South Garfield Ave., approximately $200,000. Noted Apr. 22.

Calif., Burlingame—CHURCH—St. Pauls Episcopal Church, (1st unit) rein.-con., Occidental Ave., to J. Dunn, 519 California St., San Francisco, $75,000.

Ont., Belleville — SCHOOL — Albert College, general contract 2 story and basement, rein.-con., brick and steel, plain foundation, to Dickie Constr. Co., 17 Yorkville Ave., Toronto. Archts. est. $150,000.

Ont., Newmarket—SCHOOL—Bd. Educ., general contract 2 story and basement, 8 room, rein.-con., brick and steel addition, plain foundation, Prospect Ave., to Avery Shipp Constr. Co., 195 Quebec Ave., Toronto. Archts. est. $150,000. Noted May 20.

Ont., Niagara Falls—COLLEGE—Mount Carmel College, stone and steel addition, to Pigott Healy Constr. Co., 36 James St. S., Hamilton. Archts. est. $500,000.

Ont., Toronto—CHURCH—H. F. Brown, archt., 2 Bloor St. E., 1 and 2 story and basement, 60 x 100 ft., rein.-con., brick and steel, plain foundation, Park Rd., masonry work, to A. Venn & Sons, 64 Palmerston Sq., carpentry, to S. R. Hughes, 79 Portland St.; and plumbing and heating, to Benett & Wright, 72 Queen St. E., for Central Baptist Church, Castle Memorial Hall. Archts. est. $160,000. Noted Mar. 4.

Ont., Windsor — CHURCH — Lady of Prompt Succor Parish, c/o Pennington & Boyde, archts., Bartlett Bldg., general contract church, to B. Blonde, 14 Cornhill St., Chatham. Archts. est. $150,000.

Alta., Edmonton — COLLEGE — Alberta Catholic College, c/o A. Alfred, pastor, 843 Tegler Bldg., general contract rein.-con., brick and steel college, University campus, to H. G. McDonald Co., Edmonton. Archts. est. $200,000.

Federal Government Work

Proposed Work

Mass., Boston — Improvements — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans water front improvements at Navy Yard, here. $150,000.

Md., Annapolis—Mains, etc.—Spec. 5203—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids May 12, underground and subaqueous mains, at U. S. Naval Academy, here. Noted May 20.

Wis., Portage—Canal—U. S. Engineer Office, Navy Bldg., Wash., D. C., plans concrete lock on Portage Canal, to replace timber structure recently damaged by flood.

Missouri—Current Retards, etc.—U. S. Engineer Office, 702 Postal Bldg., Kansas City, making plans current retards and revetment in Missouri River, at Baker Bend, $49,500 and $220,000 respectively; dredging, etc., at Rockport Beach $58,750, at Jackson Bend $125,500, and at Searcy Bend $42,500. C. Gee, 702 Postal Bldg., dist. engr.

Missouri and Minnesota—Towboats and Barges—Inland Waterways Corp., Wash., D. C., soon takes bids 3 towboats and 5 steel barges for Upper Mississippi River Service between St. Louis, Mo., and St. Paul, Minn. $750,000.

Bids Desired

N. Y., Northport—Hospital—July 27, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing hospital group, incl. administration, infirmary, dining hall, 6 continued treatment buildings, nurses and attendants quarters, boiler house and laundry, officers quarters, etc., here. Noted Apr. 1.

N. Y., Rome—Extension—June 25, by Treas. Dept. at office Supervising Archt., Wash., D. C., extensions to U. S. Post Office, here.

N. Y., St. George—Acetylene Flashers—June 23, by Superintendent Lighthouses, 100 acetylene flashers or automatic devices to control flow of acetylene lights, etc., on buoys and beacons.

N. J., Lakehurst—Water Tank—Spec. 5215—June 16, by Bureau Yards & Docks, Navy Dept., Wash., D. C., elevated steel water tank, at Naval Air Station, here. Noted June 3.

N. J., Newark—Rock Removal—July 12, by U. S. Engineer Office, 2nd Dist. Army Bldg., New York City, removing rock and overburden in Newark Bay, here; adv. E. N.-R. June 10.

Md., Cumberland—July 1, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

D. C., Wash.—Engines—July 1, at office A. L. Flint, genl. purch. officer Panama Canal, diesel engines, etc.; adv. E. N.-R. June 10.

D. C., Wash.—Public Buildings—U. S. Congress authorizes $50,000,000 expenditure in District of Columbia, and $15,000,000 outside District of Columbia.

Va., Norfolk — Plumbing — June 22, by Bureau Yards & Docks, Navy Dept., Wash., D. C., plumbing alterations at Marine Barracks, here.

Va., Norfolk—Road—Spec. 5221—June 16, by Bureau Yards & Docks, Navy Dept., Wash., D. C., road at U. S. Naval Hospital, here. Noted June 3.

W. Va., Morgantown—Remodeling—June 21, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

S. C., Charleston—Pier—July 1 (extended date), by U. S. Engineer Office, extending north Customhouse pier, about 210 ft.; adv. E. N.-R. June 10. Noted May 6.

Tenn., Memphis—Hull—July 9, by Mississippi River Comn., 1st and 2nd Dists., McCall Bldg., steel hull for concrete mixing plant; adv. E. N.-R. June 10.

O., Hamilton—Lookouts, etc.—June 28, by Treas. Dept., at office Supervising Archt., Wash., D. C., changing lookouts, driveway, etc., here; adv. E. N.-R. June 10.

Mich., Ann Arbor—Post Office—June 22, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

Ill., Streator—Boilers, etc.—June 23, by Treas. Dept. at office Supervising Archt., Wash., D. C., removing present boiler, etc., and installing portable, smokeless fire box heating boiler, smokestack, etc., at U. S. Post Office, here; adv. E. N.-R. June 10.

Nebraska-Wyoming—Tailrace, etc.—July 12, at office Bureau Reclamation, Mitchel, Neb., E. Mead, comr., constructing tailrace, penstock, surge tank, building and foundation, etc., for Guernsey Power Plant, North Platte Project; adv. E. N.-R. June 10.

Mo., Kansas City—Revetment—June 30, by U. S. Engineer Office, 707 Postal Telegraph Bldg., approximately 10,040 ft. bank revetment at Bon Homme Bend, Missouri River.

Mo., Matson—Dikes—June 23, by U. S. Engineer Office, Postal Bldg., Kansas City, 4,100 lin.ft. pile clump dikes on Missouri River, near here.

Colorado — Road — June 15, by J. W. Johnson, dist. engr. Bureau Pub. Roads, Dept. Agriculture, Custom House, Denver, grading, graveling, etc. 5.83 mi. Tennessee Pass, Surfacing Sect. Natl. Forest Road Project, Lake and Eagle Counties; also 2.25 mi. Independence Pass Coleman, Grade Sect. Natl. Forest Road Project, Pitkin Co.

Colorado—Roads—June 16, by J. W. Johnson, dist. engr. Bureau Pub. Rds., Dept. Agriculture, Custom House, Denver, grading and crushed rock surfacing 9.84 mi. Berthond Pass Surfacing Section Natl. Forest Park Project, Grand Co.; and 4.79 mi. Fremont Pass Climax-Kohoma Sect. Natl. Forest Road Project, Lake and Summit Counties.

Colorado—Road—June 16, by J. W. Johnson, dist. engr. Bureau Pub. Wks., Dept. Agriculture, Custom House, Denver, grading, etc., 2.42 mi. Fremont Pass Curtin-Frisco Sect., Natl. Forest Project, Summit Co.

Bids Received

Mass., Boston—Mezzanine—Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling mezzanine floor in U. S. Post Office, here, from A. J. Ross, 120 High St., $6,200. Noted May 20.

Mass., Lynn—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., May 27, remodeling and enlarging U. S. Post Office, here, from Garber & Cissel, Bethlehem, Pa., (1) $19,000 (2) $17,000. Noted May 13.

Pa., Phila.—Conduits, etc.—Treas. Dept. at office Supervising Archt., Wash., D. C., June 1, conduits, etc., at U. S. Mint, here, from Lerten Electric Co., 1019 Appletree St., $11,645; terrazzo floor also ceiling and ventilation, from English Constr. Co., 15 West 91st St., New York City, $9,770, alt. add $600, and $14,700 respectively; wood block floor, from A. N. Dobson, Wash., D. C., $10,600. Noted May 27.

D. C., Wash.—Sewer—Office Constructing Quartermaster, Munitions Bldg., May 27, sanitary sewerage system, at Bolling Field, from G. B. Mullin Co., Inc., 1296 Upshur St. N. W., $18,406. Noted May 6.

O., Dayton—Sewer—Constructing Quartermaster, storm water sewerage system, at Wright Field, here, from W. H. Boyd, Dayton, $29,776. Noted May 20.

Contracts Awarded

D. C., Wash.—Gate Chambers—U. S. Engineer Office, Navy Bldg., cross connection gate chambers and repairs to old conduit, to W. F. Brenizer Co., 101 New York Ave. N. E., $213,910. Noted Apr. 15.

D. C., Wash.—Pipe Line—U. S. Engineer Office, Navy Dept. Bldg., pipe line from old filtered water reservoir for Dist. Columbia Water Supply, to Lock Joint Pipe Co., Ampere, N. J., $99,920. Noted June 3.

Ga., Augusta—Recreation—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., recreation building at U. S. Veterans Hospital 62, here, to A. C. Samford, 619 Shepherd Bldg., Montgomery, Ala., $85,500. Noted May 27.

O., Dayton—Sewer—Constructing Quartermaster, storm water sewerage system, at Wright Field, here, to W. H. Boyd, Reibold Bldg., $29,776. Noted May 20.

Michigan — Dredging — U. S. Engineer Office, Detroit, dredging in Saginaw Bay Channel, to Great Lakes Dredge & Dock Co., Williamson Bldg., Cleveland, O., $88,008. Noted May 6.

Illinois—Gravel, etc.—U. S. Engineer Office, 537 South Dearborn St., Chicago, gravel and sand at Chicago Harbor, to Constr. Materials Co., 133 West Washington St., Chicago, $11,900 and $4,810 respectively. Noted May 13.

Ill., Great Lakes (br. Waukegan)—Spec. 5209—Mezzanine— Bureau Yards & Docks, Navy Dept., Wash., D. C., mezzanine floor in storehouse, at Naval Training Station, here, to G. W. Thaxter, 712 Pine St., Waukegan, $8,331 (60 days). Noted May 27.

Wash., Easton—Canal—Bureau Reclamation, Ellensburg, for Kittitas Main Canal Div. 1, Yakima Project, near here, to General Constr. Co., Spokane Savings & Loan Bldg., Spokane, $244,293. Noted May 20.

Unclassified

Proposed Work

Stadium—Exeter, N. H.—Phillips Exeter Academy making preliminary plans stadium. $50,000 or more. J. R. Worcester Co., 79 Milk St., Boston, engr.

Transmission Line—Westmoreland, N. Y.—Utica Gas & Electric Co., 222 Genessee St., Utica, plans 5½ mi. transmission and distribution system, here.

Stadium — Chester, Pa. — Pennsylvania Military College having plans prepared by Ballinger Co., archts. and engrs., 125 Chestnut St., Phila., rein.-con., single deck stadium, 7,500 seating capacity, on College Grounds.

Transmission Line—North Carolina—Virginia Electric & Power Co., Richmond, Va., making preliminary surveys transmission line from Suffolk, Va., to Elizabeth City, Edenton and Hertford, here. L. C. Bradley, Richmond, Va., pres.

Transmission—North Carolina—Southern Power Co., 432 South Church St., Charlotte, plans 40 mi. power line from Winston-Salem to Elkin. W. S. Lee, ch. engr.

Telephone Trunk Line—North Carolina—Southern Bell Telephone Co., 67 Edgeworth Ave., Atlanta, Ga., plans 120 mi. telephone trunk line from Sanford to Charlotte, here. G. C. Cauthen, Raleigh, dist. mgr.

Brick Kiln — Gadsden, Ala. — Gadsden Clay Products Co. plans oblong brick kiln, 300,000 brick capacity.

Parks and Playgrounds—Rome, Ga.—See "Waterworks."

Tunnel—Tampa, Fla.—Tampa Gas Co., 201 Madison Ave., plans tunnel under Hillsboro River near Fortune St. Bridge. $160,000.

Culverts—Alabama and Mississippi—See "Railways."

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Unclassified (Continued)

River Terminal — Baton Rouge, La. — Soon takes bids steel car float, concrete transfer platform, cranes, etc., for river and rail exchange, here. $200,000. Federal Barge Lines will operate same. W. F. Schultz, 871 Shrine Bldg., Memphis, Tenn., engr. Noted Apr. 1.

Elimination Grade Crossing — Memphis, Tenn.—City, Illinois Central R.R. Co., 135 East 11th Pl., Chicago, Ill., A. F. Blaess, ch. engr., Louisville & Nashville R.R. Co., Louisville, Ky., W. H. Courtnay, ch. engr., Nashville, Chattanooga & St. Louis R.R. Co., 930 Bway., Nashville, Tenn., H. McDonald, ch. engr. and Union R.R. Co., plan elimination of grade crossing at Poplar Blvd., by constructing Aulon Subway or viaduct, 22 ft. $300,000-$400,000. W. B. Fowler, city engr.

Swimming Pool — Chicago, Ill. — See "Buildings—Commercial."

Animal Cages, etc.—Riverside, Ill.—See "Buildings—Commercial."

Swimming Pool — Detroit, Mich. — See "Buildings—Commercial."

Grain Elevator — Amery, Wis. — See "Buildings—Industrial."

Street Lighting System—St. Louis, Mo.—Business Men, c/o S. B. Lovejoy, executive secy., 1086 Arcade Bldg., soon take bids street lighting system on Grand Blvd. north and south of Olive St., 112 steel standards, etc. Noted May 20.

Pipe Line — Texas — Humble Oil Co., Humble Oil Co. Bldg., Houston, making preliminary surveys, etc., 8 in. pipe line from Bruni in Webb Co. to tidewater at Ingleside. $1,000,000. Private plans.

Electric Light and Power Line—Texas—Western Pub. Serv. Co., c/o S. R. Hereford, supt., Conroe, making preliminary plans 16 mi. high voltage electric light and power line from Conroe to Willis. $35,000. Private plans.

Land Development—Corpus Christi, Tex.—H. H. Friar, 1408 Mesquite, and C. K. Cook, et al, making plans developing 172 acre subdivision, incl. sewers, waterworks, paving, etc. $150,000. Private plans.

Facade—San Francisco, Calif.—City and San Francisco Co. making plans Civic Center Facade at Fulton St. approach. $150,000. J. Reid, Jr., city archt.

Light and Power Lines—Riverside, Ont.—Town Council plans extending street light and power lines on various streets. $25,000.

Electric Sub-Station — Sudbury, Ont. — Making plans electric sub-station, building $15,000, equipment $19,000 distribution and street lighting lines $18,000. P. J. O'Gorman, Stafford Blk., archt.

Switchboard—Toronto, Ont.—Plans new switchboard for controlling motor driven pumps in main pumping station. $60,000. R. C. Harris, City Hall, engr.

Mausoleum — Woodstock, Ont. — Canada Mausoleums Ltd., Metropolitan Bldg., Toronto, having plans prepared by Cameron & Ralston, Bartlett Bldg., Windsor, stone and concrete mausoleum, here. $150,000.

Transmission Line — Winnipeg, Man. — Dept. Pub. Wks., plans 100 mi. transmission line. $250,000.

Transmission Line — New Brunswick — New Brunswick Electric Power Comn., St. John, soon takes bids 10 mi. transmission line from Moncton to Shediac. S. R. Weston, ch. engr.

Wharf—Sydney, N. S.—Dept. Pub. Wks., Ottawa, soon take bids wharf, here. $75,000.

Bids Desired

Conduits, etc.—Arlington (br. Boston), **Mass.**—See "Contracts Awarded."

Heating System—Boston, Mass.—June 14, by Schoolhouse Dept., heating systems in Old Everett School, Willis St., Dorchester, and Trescott School, Rosemont St., Hyde Park. $25,000. F. E. Slattery, chn.

Heating and Ventilating System—Foxboro, Mass. — June 22, by Dept. Mental Diseases, State House, Boston, heating and ventilating system in Foxboro State Hospital Building 12, here. $25,000. G. M. Kline, comr.

Bulkhead — New Bedford, Mass. — June 22, at office G. H. Nye, city engr., 302 Municipal Bldg., timber and rip rap bulkhead, etc.; adv. E. N.-R. June 10.

Coal Pocket—Somerville (Boston P. O.), **Mass.**—See "Contracts Awarded."

Boilers, etc. — Watertown (Ind. br. Boston) **Mass.** — See "Buildings — Industrial."

Swimming Pool — Wrentham, Mass. — A. L. Putnam, c/o Metcalf & Eddy, engrs., 14 Beacon St., Boston, taking bids concrete swimming pool. $25,000.

Tow Boat—Albany, N. Y.—June 15, by T. F. Farrell, supt. Bureau Canals, Dept. Pub. Wks., steel screw motor tow boat, at Barge Canal Terminal. Noted June 3.

Ferryboats—New York, N. Y.—June 21, by A. Goldman, comr. Plant & Structures, Municipal Bldg., steel screw ferry boats.

Borings, etc.—Phila., Pa.—See "Sewers."

Causeway — Miami, Fla. — June 15, by Comrs. Dade Co., concrete bulkheading, filling for roadway and bridge work for new 79th St. causeway to Miami Beach.

Running Tracks, etc.—Rocky River, O.—June 22, by Bd. Educ., E. R. Sisson, clk., removing 5,000 cu.yd. dirt, constructing 2 running tracks, 220 ft. long, 30 ft. wide and ¼ mi. x 24 ft. wide, etc. E. H. Arnold, Town Hall, engr.

Lighting System—Chicago, Ill.—June 17, by City, Room 406 City Hall, furnishing, delivering and erecting complete lighting system for section Municipal Landing Field, at 63rd St. and Cicero Ave. A. A. Sprague, comr. Pub. Wks.

Transmission Line—Wisconsin—Wisconsin Power & Light Co., 16 North Carroll St., Madison, taking bids 7 mi. new and reconstructing 8 mi. transmission line between Verona and Belleville. E. J. Kallevany, c/o owner, engr.

Salt Mine — Texas — See "Contracts Awarded."

Bids Received

Station Finish—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 40 Lafayette St., June 7, station finish work, at Times Square Station, of Rapid Transit R.R., from M. F. Kelly Building Corp., 3851 Grand Central Terminal, $179,708. Noted May 27.

Ornamental Lighting System—Los Angeles, Calif. — Supervs. Los Angeles Co., May 24, 103 pressed steel standards on Melrose and Clinton Aves., from G. W. Kemper, P. O. Box 196, Alhambra, $31,998. Engrs. est. $29,428. Noted May 13.

Contracts Awarded

Shore Protection — Massachusetts—Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, improving Highway-Hancock St., Quincy Shore Reservation, to P. Caputo, 424 Hanover St., Boston, $23,333. Engrs. est. $25,000. Noted Apr. 29.

Conduits, etc.—Arlington (br. Boston), **Mass.** — New England Telephone & Telegraph Co., 50 Oliver St., Boston, will build underground conduits, underground cables and aerial cables. $46,550. Work will be done by day labor. Private plans.

Arena—Boston, Mass.—Boston Arena Co., 26 Pemberton Sq., Boston, 1 story, brick addition, St. Botolf St., to F. T. Ley Co., 230 Boylston St. Archts. est. $40,000. Noted Apr. 15.

Coal Pocket—Somerville (Boston P. O.), **Mass.** — Adams Wood & Coal Co., 277 Beacon St., will build 1 story coal pocket, 10,000 sq.ft. floor space, rein.-con. and timber. Work will be done by separate contracts. $40,000. Private plans.

Heating and Ventilating System—West Newton (Ind. br. Boston), **Mass.**—City of Newton, heating and ventilating system in Junior High School, here, to J. S. Cassedy, 133 Austin St., Cambridge, $61,700. Noted May 20.

Fill—Corona (Ind. sta. Flushing), **N. Y.**—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., furnishing and placing fill in Corona Yards, Roosevelt Ave., etc., to Welch Bros. Contg. Co., 14 Queens St., Long Island City, $26,180. Noted June 3.

Foundation, etc.—New York, N. Y.—B. M. Patten, comr. Public Markets, Municipal Bldg., viaduct foundations, ramp floors, etc., at Bronx Municipal Market, Exterior and 151st Sts., to C. Meads & Co., 217 West 14th St., $989,000. Noted May 6.

Tracking, etc.—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., installing tracks in part Queensboro Subway line, to Slattery Eng. & Constr. Co., 10 East 43rd St., $31,191. Noted June 3.

Track Elevation — Phila., Pa. — See "Streets and Roads."

Tunnel—West Phila. (sta. Phila.), **Pa.**—Pennsylvania R.R. Co., Broad St. Sta., Phila., reconstructing and enlarging double-track tunnel under 32nd St., here, etc., carrying tracks to Wilmington, Baltimore, Washington and Octoraro Branches, etc., to Keystone State Constr. Co., Franklin Bank Bldg., Phila. Total cost incl. work to be done by day labor. $1,000,000.

Plumbing—Chicago, Ill.—Comrs. Cook Co. plumbing contract for Cook County Hospital addition, to Hanley & Co., 6 North Clark St., $240,396. Noted Apr. 29.

Salt Mine—Texas—Texas Salt Co., c/o G. Leland, mgr., Houston, will build plant for mining 150 tons rock salt per hr., incl. hoisting machine, air compressors, etc., by day labor. $150,000. Private plans. Contract for rein.-con. line shaft, 30 ft. diam., about 150 ft. deep, to Foundation Co., 120 Liberty St., New York City.

Storage Tanks—Plainview, Tex.—Harvest Queen Mill & Elevator Co., Inc., 8 rein.-con. storage tanks, to Southwestern Eng. Co., Plainview, approximately $100,000.

Police Signal System—Montreal, Que.—Corporation, police signal system, to Northern Electric Co. Ltd., 121 Shearer St., $168,452.

Grain Elevator—Calgary, Alta.—Dept Natural Resources, Canadian Pacific Ry. Co., grain elevator and flour mill, to Bennett & White, Calgary.

Materials

Bids Desired

Lumber, etc.—New York, N. Y.—June 16, by P. J. Dooling, comr. Purchase, Municipal Bldg., furnishing lumber and paving blocks to Police Dept., Depts. Parks, Manhattan, Plant & Structure, Pub. Welfare, and Water Supply, Gas & Electricity.

Frogs, Switches, etc.—Phila., Pa.—June 15, by Montgomery Smith, purch. agt. Pennsylvania R.R. Co., 17th and Filbert Sts., frogs, switches, guard rails, etc. A. C. Shand, Broad St. Sta., ch. engr. railroad.

Gravel—Louisiana—June 29, by State Hy. Comn., Baton Rouge, approximately 6,227 cu.yd. washed and screened gravel, at Torras, for Kellers Lane-Simmesport Highway, State Highway Project 90-D, Pointe Coupee Parish. W. B. Robert, Reymond Bldg., Baton Rouge, highway engr.

Cement, etc.—New Orleans, La.—June 29 by W. J. Legier, city purch. agt., City Hall, 6 cars Portland cement in sacks, mazda lamps for all city departments, etc., for 6 months period.

Cement, Steel, etc.—Tomahawk, Wis.—W. E. Brooks, genl. mgr. Wisconsin Valley Impvt. Co., 1st. Natl. Bank Bldg., Wausau, in market approximately 3,500 bbl. cement, reinforcing, gates and gate hoists for storage dam, near here.

Reinforcing Bars—Mason City, Ia.—June 15, at office Auditor Cerro Gordo Co., 80,000 lb. ⅝ in. round reinforcing bars. R. E. Robertson, Mason City, engr.

Piles—Los Angeles, Calif.—June 16, by Harbor Comn., Sect. "A" Douglas fir creosoted piling, 4 pcs. 54 ft., 73 pcs. 56 ft., 65 pcs. 58 ft., 64 pcs. 60 ft., 128 pcs. 64 ft., 134 pcs. 66 ft., and 132 pcs. 68 ft., 68 ft. lengths, Sect. "B" for Stock, 30 pcs. 54 ft., 30 pcs. 56 ft., 50 pcs. 58 ft., 50 pcs. 60 ft., 30 pcs. 66 ft., and 15 pcs. 68 ft.

Castings, etc. — Welland, Ont. — Lyall Constr. Co., Ltd., 5000 Western St., Montreal, Que., in market 20,000 tons of metal construction of which 16,000 tons to be castings, for Welland Canal, here.

Contracts Awarded

Coal Tar Patching—Boston, Mass.—City, Supply Dept., coal tar patching for ensuing year, to Independent Coal Tar Co., 88 Broad St., $28.89 per ton. Noted May 13.

Cement—Albany, N. Y.—Albany Port Dist. Comn., 100 State St., 10,000 bbls. cement for wharf construction at Westerlo Island, to P. E. McCable, 28 Williams St., at $2.72 per bbl. Noted May 13.

Castings—New York, N. Y.—J. Miller, pres. Manhattan Boro, Municipal Bldg., steel castings to Corporation Yards, here, to Detroit Steel Castings Co., 227 Fulton St., Brooklyn, $5,187. Noted May 13.

Oil—Trenton, N. J.—To Barrett Paving Co., Trenton Trust Bldg., 8,000 gal. oil for parks at $0.2998 per gal.; 8,000 gal. tar $0.128, 30,000 gal. asphaltic oil $0.1485, 1,500 tons slag, $3.55, and 20,000 gal. tar $0.148.

Manhole Covers and Frames—Baltimore, Md. — Manhole covers and frames, to Frederick Iron Co., Frederick, No. 2 $20,064; and to J. J. Lacy Co., 1401 Block St., Baltimore, No. 1 $17,898.

See proposal advertising on page 145

Constr. News page 377

Aluminum Paint Protects and Beautifies this Factory Interior

Interior Weston Electrical Instrument Corporation, Newark, N. J.

AMONG the first important manufacturing concerns in this country to realize—and profit by—the reflective and protective value of Aluminum Paint was the Weston Electrical Instrument Corporation.

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The lustrous color of Aluminum Paint lasts—and dust and dirt may be washed from its coat-of-metal coverage.

They retouch their factory interior at those points where constant contact has finally soiled the surface, without leaving any defacing line between the new and the old Aluminum Paint jobs.

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